PHASE I
ENVIRONMENTAL SITE ASSESSMENT REPORT

Former Mystic Oral School for the Deaf
Groton, Connecticut

June 2013

Prepared for

STATE OF CONNECTICUT
DEPARTMENT OF ECONOMIC AND COMMUNITY DEVELOPMENT
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Comm. No. 18HM3.01.001

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ACRONYMS

AAI	All Appropriate Inquiry
ACM	Asbestos-Containing Material
AOC	Area of Concern
AST	Above-Ground Storage Tank
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	CERCLA Information System
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CORRACTS	Corrective Action Sites
CSM	Conceptual Site Model
DAS	Department of Administrative Services
DEEP	Department of Energy and Environmental Protection
DECD	Department of Economic and Community Development
EDR	Environmental Data Resources, Inc.
EPA	Environmental Protection Agency
ERNS	Emergency Response Notification System
ESA	Environmental Site Assessment
ETPH	Extractable Total Petroleum Hydrocarbons
FINDS	Facility Index System
FIRM	Flood Insurance Rate Map
FOIA	Freedom of Information Act
GIS	Geographic Information System
HBM	Hazardous Building Materials
LEA	Loureiro Engineering Associates, Inc.
LPG	Liquified Propane Gas

LUST	Leaking Underground Storage Tank
LWDS	Leachate and Wastewater Discharge Sites
NPDES	National Pollutant Discharge Elimination System
OBRD	Office of Brownfield Remediation and Development
PCBs	Polychlorinated Biphenyls
PID	Photoionization Detector
PVC	Polyvinyl Chloride
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
SCGD	Site Characterization Guidance Document
SDADB	Site Discovery and Assessment Database
SIMS	Site Information Management System
SVE	Soil Vapor Extraction
SVOCs	Semivolatile Organic Compounds
TSCA	Toxic Substances Control Act
USC	United States Code
USGS	United States Geological Survey
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds

UNITS

mg/kg	milligrams per kilogram
ppm	parts per million
ppmv	parts per million by volume
µg/kg	micrograms per kilogram

1. INTRODUCTION

1.1 Background

Loureiro Engineering Associates, Inc. (LEA) has prepared this report to document the findings of a Phase I Environmental Site Assessment (ESA) of the developed portion of the state-owned Mystic Oral School property located in Groton, Connecticut (herein after referred to as the "Site"). The Phase I ESA was authorized by the State of Connecticut Department of Economic and Community Development (DECD), Office of Brownfield Remediation and Development (OBRD) under Purchase Order No. ECDM1-0000007972. Funding for the Phase I ESA was made available through a state grant and *An Act Promoting Economic Growth and Job Creation in the State* (Public Act No. 11-1).

The Site is the location of the former Mystic Oral School for the Deaf. This property is currently owned by the State of Connecticut and is maintained by the Department of Administrative Services (DAS). The Site is comprised of portions of two parcels: 0 Oral School Road, encompassing approximately eight acres; and 240 Oral School Road, encompassing approximately 40 acres. The school property, together with abutting land currently owned by the State of Connecticut and maintained by the Department of Energy and Environmental Protection (DEEP), once comprised a much larger tract of land that encompassed approximately 150 acres.

In 2011, the State of Connecticut identified the Site as surplus property. The DAS intends to sell the property once the Site has been assessed and cleaned-up. Accordingly, the DECD contracted with LEA to conduct a Phase I ESA, Phase II ESA, and hazardous building materials (HBM) assessment of the developed portions of the former Mystic Oral School property. The findings of the Phase II ESA and HBM assessment are documented in reports provided separately to DECD and are not included in this Phase I ESA Report.

1.2 Purpose and Scope

LEA conducted the Phase I ESA to document the environmental condition of the Site, and to assess the potential for historical activities conducted at the Site and in the surrounding area to have affected the environmental condition of the site property. As part of the Phase I ESA, LEA performed an "all appropriate inquiry" (AAI) into the previous ownership and use of the property consistent with good commercial and customary practices as defined in Title 42 of the United States Code (USC), Section 9601(35)(B).

The assessment was performed in accordance with the guidance provided in the ASTM *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process,*

ASTM E 1527-05 (ASTM, 2005), as well as the relevant portions of the *Site Characterization Guidance Document* published by DEEP, dated September 2007 and revised December 2010 (DEEP, 2010). The ASTM standard is recognized by the United States Environmental Protection Agency (EPA) as being consistent with the AAI Rule of the 2005 amendments to the Small Business Liability Relief and Brownfields Revitalization Act of 2002 (40 Code of Federal Regulations (CFR) 312).

As defined by the ASTM standard, an environmental assessment is "the process by which a person or entity seeks to determine if a particular parcel of real property (including improvements) is subject to recognized environmental conditions." In the context of this assessment, recognized environmental conditions ("RECs") refer to "the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property." Similarly, under the DEEP Site Characterization Guidance Document (SCGD), a Phase I ESA is an evaluation of the current and historical use of a site and the activities that have been conducted at the site for the purpose of identifying all Areas of Concern (AOCs) at which a release of hazardous waste or hazardous substances, including petroleum products, may have occurred (DEEP, 2010). AOCs generally correspond to RECs, referred in ASTM E 1527-05 (ASTM, 2005). The term AOC is used throughout this Phase I ESA Report to be consistent with the terminology used in the SCGD (DEEP, 2010).

The Phase I ESA consisted of: a review of local, state and federal records, as well as a review of available records maintained at the Site; an interview of the site building superintendent; a reconnaissance survey of the property; and a review of readily available public information, such as maps and aerial photographs. The Phase I ESA was conducted to identify any known or suspected AOCs and to evaluate the potential impact such conditions might have on the environmental quality of soil and groundwater at the Site.

To evaluate the information gathered during the Phase I ESA, a preliminary conceptual site model (CSM) was developed for the Site. The CSM identifies AOCs where past or present uses or activities had the potential, or were known, to result in releases to the environment that could adversely affect the environmental quality of surface or subsurface conditions at the Site. In addition, the CSM identifies the constituents that may have been released, the potential release mechanisms, and the potential migration pathways in developing an understanding of the environmental media most likely to have been affected if a release occurred.

This Report has been prepared to document the findings of the Phase I ESA of the Site.

1.3 Exceptions and Deviations

Section 12.10 of ASTM E 1527-05 requires that all exceptions and deviations from the standard be listed individually and in detail. In performing the Phase I ESA, the following deviations from the ASTM standard are noted:

- In identifying commercial and industrial facilities in the vicinity of the Site, LEA relied upon information provided by a private data management firm that specializes in assembling and summarizing publicly available environmental information using computerized database search criteria and geographic information system (GIS) information to identify properties, and supplemented that information with information obtained from available records at the DEEP Environmental Quality Records File Room. The distances used in the database search were consistent with the approximate minimum search distances referenced in Section 8.2.1 of ASTM E 1527-05 and the AAI Rule (CFR, 2005).

- LEA was unable to interview former site workers and occupants who worked or resided at the property prior to 1984. However, information provided by the current building superintendent at the Site and records maintained at the Site and on file at DEEP provided an account of former site operations to allow for an understanding of the site history. This deviation does not constitute a significant data gap.

- During a reconnaissance of the Site, observations were limited within some of the buildings because there was no electricity to light the interior of the buildings, and the interior of one of the buildings was not observed due to potential hazards associated with excessive mold. Also, an inspection of elevator sumps associated with elevators within the buildings was not performed due to the inherent hazards associated with this activity. In addition, observations regarding stressed vegetation could not be made given that the site reconnaissance was conducted during the winter. These exceptions do not constitute significant data gaps.

- The Fair Market Value of the property was not researched as part of this Phase I ESA. Therefore, the potential effect of site conditions on the property value was not assessed.

1.4 Non-Scope Considerations

The ASTM E 1527-05 Standard identifies “additional issues” that are beyond the scope of the ASTM Phase I Standard practice, including issues pertaining to: Asbestos-Containing Material (ACM), Radon, Lead-based Paint, Lead in Drinking Water, Cultural and Historic Risks, Industrial Hygiene, Health and Safety, Ecological Resources, Indoor Air Quality, Toxic Mold,

Fluorescent Light Ballasts, and High Voltage Power Lines. These potential issues were not evaluated as part of the Phase I assessment of the Site.

1.5 Additional Services

As requested by the DECD, OBRD project manager, an opinion as to whether the Site meets the definition of an "establishment" defined in Section 22a-134 (3) of the Connecticut General Statutes (CGS), also known as the Connecticut Property Transfer Act, as amended by Public Act 95-183 and Public Act 01-204. This is considered to be an additional service identified in Section 12.9 of the ASTM 1527-05 Standard. This additional service is beyond the scope of this practice, however the opinion is included in Section 7.3 of this Phase I ESA Report, as requested by the DECD, OBRD project manager.

1.6 User Reliance

This report has been prepared for the DECD. This report may be distributed and relied upon by the DECD, its successors and assigns. Reliance on the information contained in this report by any other person or entity is not authorized without the written consent of LEA.

1.7 Report Organization

This report has been organized such that tables, figures, drawings, and appendices are presented following the text of the report. The information provided in the remaining sections of this report is presented as follows:

- A description of the site physical features and current use of the Site and nearby properties is provided in Section 2, along with observations made during a reconnaissance of the Site.
- A summary of the ownership history and historical use of the property is presented in Section 3, along with information obtained from reviews of aerial photographs, historical topographic maps, and city directories.
- The results of a review of records obtained from the Site are provided in Section 4. The results of reviews of records obtained from various federal, state, and local government offices, and the results of a review of information obtained from a private data management firm that specializes in assembling and summarizing publicly available environmental information are also summarized in Section 4.
- The environmental setting surrounding the Site, including topography, surface water drainage characteristics, wetlands, groundwater and surface water quality, and site and regional geology and hydrogeology is provided in Section 5.

- Descriptions of the AOCs identified during the Phase I ESA are provided in Section 6, along with a preliminary CSM for each AOC in the context of the Site and environmental setting.
- The findings of the activities and investigations conducted, an opinion of the Environmental Professional, and conclusions that have been drawn based on the findings and opinion are provided in Section 7.
- The Statement of the Environmental Professional, as required by 40 CFR 312.21(d), is provided in Section 8.
- References are provided in Section 9.

2. SITE INFORMATION

2.1 Site Location

The Site is located 0.2 miles north of the intersection of Oral School Road and Boulder Court and approximately 0.25 miles north of Interstate Highway 95 in the northeastern portion of Groton, Connecticut. The two parcels that comprise the Site are identified by the Town of Groton Tax Assessor's Office as 0 Oral School Rd and 240 Oral School Road, and are listed on the current Town of Groton Assessors Cards as Map IDs 261906297210E and 261906388923E, respectively.

Based on a review of the United States Geological Survey (USGS) 7.5-minute series topographic quadrangles for Old Mystic and Mystic, Connecticut, the center of the Site is located at approximately 41° 22'35" north latitude and 71° 58'19" west longitude (USGS, 1983 and 1984, photo-revised 1989 and 1996). The location of the Site, the topography of the surrounding area, and the locations of nearby water bodies, man-made structures, and major access routes are shown in Figure 2-1, which was developed from a portion of the above-referenced topographic quadrangle maps.

2.2 Site Description

2.2.1 Sources of Information

The following description of the Site is based upon information obtained from a review of files and records maintained at the Site and at municipal offices within Groton Town Hall. The description of the Site is also based upon a reconnaissance of the Site conducted by representatives of LEA on January 17 and 24, 2013. During the site reconnaissance, the LEA representatives were accompanied by Mr. Harold Monroe, Jr., the site Building Superintendent and DAS employee. Mr. Monroe was interviewed prior to and during the reconnaissance to obtain information that may indicate where there may be AOCs at the site property. A copy of the questionnaire completed at the time of this interview is provided as Appendix A.

The Site is currently vacant, and with the exception of personnel conducting routine maintenance, the site buildings were unoccupied at the time that the site reconnaissance was conducted. Photographs taken at the time of the reconnaissance are provided as Appendix B. Various site features are depicted in these photographs, which are referenced at this time to facilitate an understanding of the description of the Site provided below.

2.2.2 Site Characteristics

The characteristics of the Site are presented in Drawing 2-1. As shown in this drawing, the parcel identified as 0 Oral School Road is situated along the west side of Oral School Road. The developed portion of this parcel encompasses approximately 1.5 acres and is improved with a paved parking lot. A single family residential building constructed on this property in 1910 was destroyed in a fire. This parcel is currently leased by the Old Mystic Fire Department, which maintains a mobile training trailer on this parcel.

As shown in Drawing 2-1, the parcel identified as 240 Oral School Road is situated along the east side of Oral School Road. The developed portion of this parcel encompasses approximately 40 acres. This parcel is improved with seven primary buildings used as part of the former Mystic Oral School for the Deaf and referred to as the Administration (Boys Wing) Building, Girls Wing, Whipple Building, Crouter Building, Durant Building, Pratt Building, and Rainbow House. In addition, the site improvements include two garage buildings, one shed, and ancillary driveways and parking lots. This parcel also includes a recreation field and fire pond identified as Mystic Oral School Pond.

2.2.3 Structures

The existing site buildings encompass an area of approximately 240,000 square feet. The buildings were constructed between approximately 1924 and 1976. A summary of each building, which includes the date that each building was constructed, is provided in Table 2-1. Each structure is described in detail in Section 2.4.

2.2.4 Utilities

Public utilities, including those for electric, sewer, and water are available at the Site. Electricity in the vicinity of the Site is provided by Connecticut Light and Power. Municipal sewer and water service is provided by the Town of Groton. Heat and hot water are provided to the buildings at the Site by a number of oil burning furnaces.

2.3 **Historical Use of the Site**

2.3.1 General Site Use

In 1869, the Whipple Home School for Deaf Mutes was founded in Ledyard, Connecticut. In circa 1872, the school was re-located to the Mystic property. At this time, the school consisted of a house and a brick dormitory. The name Mystic Oral School for the Deaf was adopted in 1895. The State of Connecticut purchased the site property in 1921.

During its early years, the school property was self-sufficient. In addition to classrooms and dormitories, the school property included buildings to maintain agricultural and livestock operations. The property also included a dedicated sewage treatment plant. Historically, buildings associated with farming practices were located on the existing recreation field. In addition, the fire pond located adjacent to the existing recreation field is reportedly the location of a former rock quarry.

During the developmental history of the school campus, a number of buildings were constructed as provided in Table 2-1. The buildings included classrooms, dormitories, as well as living space for families of children enrolled in the school. Various buildings also included gymnasiums, a photography laboratory, an internal combustion engine laboratory, and carpentry and paint shops. The Pratt building, the last structure constructed at the Site, was built in 1976 to provide a new gymnasium and natatorium.

The Mystic Oral School for the Deaf was closed in June 1980. Later that year, the name of the facility was changed to the Mystic Educational Center. The campus facility later became known as the Mystic Educational Center and Mystic Community Center O.S. Until it was closed in 2011, the facility was used by a number of entities including the State of Connecticut Department of Mental Retardation. The State of Connecticut leased the natatorium to the Johnson and Memorial Hospital and to the Town of Groton and other local community organizations. The Town of Groton Parks and Recreation Department also used the recreation field until 2011.

Between 1980 and 2011, the Boys Wing of the Administration Building was leased to Alion Science and Technology (Alion), a private company that provides engineering, research, testing, and development services to the United States Department of Defense. Alion used the Boys Wing for office space.

The parcel identified as 0 Oral School Road has been leased by the State of Connecticut to Reliance Fire Department, Incorporated and is used by the Old Mystic Fire Department for fire fighting training. The lease agreement is for 20 years and will expire in 2022. The portion of this parcel that is part of the Site has been used by the Old Mystic Fire Department to conduct training exercises.

2.3.2 Historical Wastewater Discharges

Prior to connecting to the municipal sewer system, wastewater generated at the Site was reportedly discharged to a series of filter beds located southeast and downgradient of the Site. The filter beds are located on the State of Connecticut property maintained by DEEP. The

locations of the filter beds are shown in the Town of Groton, map of the Mystic Educational Center and Mystic Community Center O.S., provided in Appendix C. The filter beds were reportedly constructed along with a chlorine building and two holding ponds for solids at this location. The time of the last discharge to this system and the first discharge to the Town of Groton wastewater system is unknown.

2.4 Site Reconnaissance

2.4.1 Site Building Observations

In general, the seven primary buildings at the Site were observed to be in various states of repair. The largest of the building structures, the Administration Building, includes the annexed Boys Wing, Girls Wing, and Whipple Hall (Drawing 2-1). For the purposes of this report, each building is described separately.

2.4.1.1 Administration Building and Boys Wing

The exteriors of the Administration Building and associated Boys Wing were observed to be generally in good condition. The paint on the window frames of the buildings has peeled and the frames need to be re-painted. The exterior brick walls surrounding the windows of the buildings were stained with paint from the window frames and pieces of paint that had flaked off of the wood frames were observed on the ground.

The interior of the Administration Building and associated Boys Wing were observed to be generally in good condition. These buildings include classrooms and dormitory rooms on the second, third, and fourth floors. Administration offices, a kitchen, and dining room are also located on the second floor. Approximately 28,000 square feet of the upper floors of the Boys Wing have been converted to offices for use by Alion.

Two hydraulically-powered elevators exist within the Administration Building. A passenger elevator is located within the central part of the Administration Building. A freight elevator is located adjacent to the loading dock within this building and was formerly used to deliver goods to the kitchen located on the second floor. In addition, one pulley-operated elevator is located within the boiler room of the Administration building.

The hydraulic reservoir of the freight elevator located adjacent to the loading dock is located within the northern section of the ground floor of the Administration building. Dark stains were observed on the concrete floor surrounding this reservoir. Absorbent pads were observed to be placed on the floor next to the reservoir. A floor drain was located near the reservoir. However, the concrete floor surrounding the floor drain did not appear to be stained.

The ground floor of the Administration Building includes a boiler room that provides steam and hot water throughout the building and to the Boys Wing, Whipple Building, Crouter Building and Durant Building. The boiler room has two large boiler units that are set on concrete pads above the concrete floor. Minor surficial cracks were observed in the concrete floor. A floor sump was observed in a bermed area of the boiler room. The pump in the floor sump was cycling on and off consistently to remove groundwater infiltrating into the sump. An area of the concrete floor was observed to be lighter in color than the surrounding area. According to Mr. Monroe, this area was the location of a former boiler. Near the eastern wall, a small patched area of the concrete floor was observed. According to Mr. Monroe, this patched area was formerly the discharge location of the blow-down water for the boilers. Apparently, the boiler blow-down water was discharged through the concrete slab floor to underlying soils. Boiler blow-down water is now discharged directly to the sump on a daily basis. The water is pumped from the sump to the sewer system.

The ground floor of the administration building also includes a library, and a tool and maintenance shop, a janitor room, a photography laboratory, and a room that housed a gasoline-powered generator. The tool and maintenance shop is located within the southeastern section of the ground floor. Oil stains were observed on the concrete floor of the tool storage room and beneath the drill press, band saw, and metal cutting machine located within the maintenance shop.

The janitor room was observed to contain a number of chemical cleaning products. The floor of the janitor room was observed to be stained. Mr. Monroe stated that the stains resulted from a release from the steam line that traverses this area of the building.

The photography laboratory located on the ground floor of the Boys Wing was observed to be constructed of cinder block. The floor within this laboratory appeared to be in relatively good condition. No staining was observed. A drain located within this room was reported to be connected to the sewer system.

2.4.1.2 Girls Wing

The Girls Wing was the first of the remaining buildings at the Site to be constructed. This building was constructed in 1923. The exterior of this building was observed to be generally in good condition, with the exception of peeling paint from the wood frames around the windows. The Girls Wing consists of four floors. The second, third, and fourth floors include classrooms and dormitory rooms. The ground floor of the Girls Wing includes the boiler room for the original building. The boiler room provides steam and hot water throughout the building. The boilers are fueled using No. 4 heating oil, but had previously been fueled using No. 6 heating oil

and pre-heaters. Originally, the boiler was fueled using coal. A coal chute was located along the boiler room east wall.

The floor elevation of the boiler room is below the groundwater table. During the reconnaissance, water was observed over part of the concrete slab floor. The water was observed to drain to a sump. According to Mr. Monroe, the water is pumped from the sump to the sewer system discharge.

2.4.1.3 Whipple Building

The Whipple Building was completed in 1969. This building was constructed west and south of the Girls Wing. The Whipple Building consists of two floors and a basement on the northern section of the building. The lower section of the building consists of two floors. The exterior of this building was observed to be generally in good condition. Mr. Monroe stated that the roof was re-shingled four years ago. The northern section of the building included one-room efficiency apartments that were used to provide staff housing. The southern section of the building included classrooms. Heat and hot water are supplied to the building from the Administration Building boilers. This building includes one freight elevator.

2.4.1.4 Crouter Building

The Crouter Building consists of a one-story masonry block building that was constructed in 1958. The building encompasses approximately 7,600 square feet. The exterior of this building was observed to be in fair condition. Paint was observed to be peeling from the cinder block exterior walls. The interior of the building had been vandalized and interior glass windows were observed to have been broken. The roof over part of the building is leaking.

The Crouter Building originally housed the maintenance shop and carpenter shop. A cyclone dust collector was observed to be located along the east side of the Crouter building. The building also included classrooms, a paint room/spray paint booth, and an internal combustion engine laboratory. In addition, the Crouter Building housed the original school gymnasium. Showers are located in this building adjacent to the gymnasium.

The Crouter Building has not been used since 1985. The utilities to the Crouter Building have been disconnected. The building is now used for storage. Approximately 20 empty 25-gallon plastic containers that formerly contained hydrochloric acid are located in the area of the former carpenter shop. The hydrochloric acid was formerly used to chlorinate the pool in the Pratt Building. Maintenance equipment including pumps and air compressors are also located in this area of the building. Other maintenance equipment, including blowers, is located in the area of

the former internal combustion engine laboratory. In the internal combustion engine laboratory classroom, engine equipment was stored on the floor. An oil stain was observed near one the small engines.

The gymnasium floor is in disrepair. The roof over a portion of the gymnasium was observed to be leaking. Standing water was noted on the floor. Maintenance equipment, sheetrock, empty drums, and plumbing supplies were observed to be stored in this area of the building.

In general, the interior floors of the Crouter Building are in poor condition. Sections of the tiled floor are stained or missing. Areas of painted concrete floor are peeling or stained. The gymnasium floor is warped in areas and rotted in others. Floor tile within the paint shop appeared to have been removed, and an empty drum was observed to be stored on its side, adjacent to a floor drain within the paint shop. All painting equipment and materials had been removed from the paint room.

The floor of the former internal combustion engine laboratory was observed to be stained with oil that apparently had leaked from a leaf blower. Another area of the floor in the laboratory was observed to be stained with oil that apparently leaked from one of the small engines placed on the floor.

2.4.1.5 Durant Building

The Durant Building consists of a three-story masonry block building constructed in 1973. The exterior of this building was observed to be generally in good condition. The interior of the building was not accessed due to potential hazards associated with excessive mold. This building provided classrooms and dormitory rooms for students. A passenger elevator and mechanical room are located within this building. Heat and hot water supplied to this building by the Administration Building boilers has been disconnected. The building was last used in 1984 when it was leased to the State Police for training.

2.4.1.6 Pratt Building

The Pratt Building consists of a two-story masonry block building constructed in 1975. The exterior of this building was observed to be generally in good condition. This building houses a gymnasium, weight room, handball court, natatorium, sauna, bowling alley, theater, laundry room, boiler room, and pool chemical supply room used to store chlorine. A carpenter shop and a storage paint room have also been housed in this building since 1985. With the exception of the gymnasium floor, the interior of this building was observed to be in good condition. As stated by Mr. Monroe, areas of the gymnasium floor had "bubbled" due to water beneath the

floor. Mr. Monroe stated that floor drains once located in the boiler room were filled with concrete.

2.4.1.7 Rainbow House

The Rainbow House was constructed in 1928 as the Superintendent's residence. This building is a two-story home with a basement and attic. The building is heated with a boiler located in the basement. The boiler is fueled with No. 2 heating oil, and a 275-gallon above-ground heating oil tank is located in the basement. Prior to installing this above-ground storage tank (AST), oil used to operate the boiler was stored in an underground storage tank (UST) installed adjacent to the east side of the residence beneath the wooden stairs that lead to the second floor of the building. The Rainbow House was refurbished in 1987 and was later used as a group home for girls.

Oil stains were observed on the concrete floor beneath the 275-gallon heating oil AST located in the basement of this building. Also, the floor beneath the old boiler in the basement appeared to be pitted and rust-colored. A sump is located within the area of the basement adjacent to the new boiler. Mr. Monroe stated that floor drains in the area of the basement where the 275-gallon heating oil AST is located were filled with concrete.

2.4.1.8 Rainbow House Garage

The Rainbow House Garage is a four-bay frame garage constructed of wood in 1930. This garage appeared to be in fair condition. Paint was observed to have peeled from the wood structure. The garage is used to store maintenance equipment.

2.4.1.9 Maintenance Garage

The Maintenance Garage is a single-story, concrete slab on-grade, masonry brick building constructed in 1969. This building was formerly used to store the school bus. The garage is now used to repair maintenance equipment. This garage is heated with a No. 2 fuel oil-fed furnace. A 275-gallon heating oil AST is located in the garage next to the furnace. Motorized equipment used to maintain the site property was stored in the service building. Gasoline cans and propane gas cylinders were observed to be stored in the garage.

The Maintenance Garage appeared to be in good condition. No staining was observed in the vicinity of the AST or furnace. The concrete floor of the garage was observed to have minimal staining that is typical for the building's use.

2.4.1.10 Wood Shed

The Wood Shed is a wooden, four-bay shed that is currently used to store maintenance equipment and tools. In addition, one of the center bays is used as a liquid waste accumulation area. During the reconnaissance, five-gallon plastic pails and one 55-gallon steel drum containing liquid wastes including waste oil and waste gasoline were observed to be located on a spill containment pallet located in this bay of the shed. A parts washer and associated 25-gallon drum identified as *Safety Kleen Premium Gold Solvent* was observed in the eastern-most bay of the four-bay shed. A flammables cabinet, several lawn mowers, and gas cans were also located in this bay of the shed. The concrete floors of each of the shed bays appeared to be heavily stained with oil.

2.4.2 Exterior Observations

2.4.2.1 General Site Improvements

The general site improvements include the driveways and parking areas surrounding the buildings. These site features appeared to be in fair condition. The paved surfaces of these areas were observed to contain surface cracks. In some areas, the paved surfaces contained potholes, and were otherwise deteriorated and broken.

A number of catch basins and surface water drainage features, referred to in various drawings maintained at the Site as dry wells, were identified at the property. These surface water drainage features appeared to be in good condition. The general site improvements also include two sewer lift stations; one located adjacent to the Durant Building, and the other located off the southwest corner of the Pratt Building. During the site reconnaissance, Mr. Monroe also identified an in-ground structure with a steel and concrete cover elevated a few feet above the ground surface. The cover was bolted shut. This structure is located north of the parking area, between the Administration Building and the Crouter Building, on the south side of the recreation field. Mr. Monroe did not know the purpose that this structure served and he stated that he had never uncovered the structure.

Other site improvements observed at the property include cell tower sites located on the roof of the Boys Wing and the Administration Building boiler chimney stack. According to Mr. Monroe, the cell tower sites are leased by Verizon Wireless and Sprint Nextel wireless communication service providers.

2.4.2.2 Fire Training Center

The parcel identified as 0 Oral School Road and used by the Old Mystic Fire Department as a training center is the location of the former Cook's House. This former two-story wood house, referred to in various site documents as the Johnson House, was constructed in 1910. As reported by Mr. Monroe, the house was destroyed in a fire during fire training exercises. A rusted storage containment trailer that appears to have been partly burned is located in the area of the former Cook's House. An empty AST is situated on a wooden pallet placed adjacent to the storage containment trailer. An empty drum and wood pallets were also observed to be located on the ground near the containment trailer. Charred wood and burnt embers were found to be scattered on the ground under the trailer and adjacent to the wood pallets.

The northern portion of this parcel that is used as a fire training facility is paved. The paved area was formerly used as a parking lot for staff employees. A state-of-the-art mobile fire training enclosure is located on the paved area. According to Mr. Monroe, this area of the Site was filled to raise the ground elevation. The area that was filled could be seen during the site reconnaissance. Mr. Monroe stated that ever since the ground elevation of this area of the Site was raised, the paved parking lot is flooded with surface water run-off following precipitation events.

2.4.2.3 Underground Storage Tanks

There are a number of USTs installed at the site property. In addition, there are a number of USTs that have been abandoned in place or removed from the property. A summary of existing and former USTs located at the Site is provided in Table 2-2.

The locations of the USTs that have been abandoned in-place or removed from the property were identified by Mr. Monroe. These USTs include the heating oil UST located adjacent to the Rainbow House that was abandoned in-place. These USTs also include the 500-gallon steel gasoline UST that was installed in the courtyard of the Administration Building. This UST was used to power a generator that was installed in the basement of the Boys Wing. This UST was reported to have been removed in September 1992. A tank used to store liquefied propane gas (LPG) is also installed beneath the ground in the courtyard of the Administration Building. The LPG was used as a source of gas for the kitchen within the Administration Building.

The former USTs also include the 250-gallon and 7,500-gallon heating oil tanks that were originally installed directly west of the Administration Building boiler room that were reported to have been removed in September 1992. In addition, these tanks include the 10,000-gallon steel UST west of this tank field and the driveway that was installed in the area adjacent to the

Crouter Building parking lot. This steel tank was reported to have been removed in 1992. The former USTs at the Site also include the 10,000-gallon UST located in the parking area of the Pratt Building, where the existing UST is located. The former USTs also include the 550-gallon diesel UST that was removed from the area directly east of the emergency generator in February 2005.

The existing USTs at the Site include the two 10,000-gallon fiberglass heating oil USTs that are located in the area adjacent to the Crouter Building parking lot. This tank field is the former location of the 10,000-gallon steel UST removed in 1992. Covers for two monitoring wells, apparently used for leak testing, were observed on the concrete pad overlying the tanks. A section of polyvinyl chloride (PVC) pipe was observed to be installed directly west of the concrete pad. A "U" shaped section of the pipe extended above the ground surface. Mr. Monroe stated that this pipe was installed following the removal of the 10,000-gallon steel UST to vent soils impacted by a release from the former tank.

A 10,000-gallon heating oil UST is installed in the parking area adjacent to the south side of the Pratt Building. Covers for two monitoring wells, apparently used for leak testing, were observed on the concrete pad overlying the tank.

2.4.2.4 Above-Ground Storage Tanks

In addition to the fuel oil ASTs associated with the boilers located in the Administration Building, Pratt Building, Rainbow House, and Maintenance Garage, a double-walled AST is located adjacent to the emergency diesel generator located in the grass median north of the Administration Building. This AST and the associated emergency generator are situated upon a concrete pad within a fenced enclosure. During the site reconnaissance, the paved surface of the driveway to the north of the emergency generator was observed to have been cut. According to Mr. Monroe, sections of the asphalt were removed during the excavation of subsurface soil that was conducted in response to a release of diesel fuel. The excavation remedy included the removal of the UST that was installed beneath the area directly east of the emergency generator.

2.4.2.5 Loading Docks

Two loading docks were observed to be present at the Site. One loading dock is located on the north side of the Administration Building boiler room. This loading dock was constructed to facilitate the delivery of goods and provisions to the kitchen, using the freight elevator. The other loading dock is located adjacent to the transformer on the west side of the northwest section of the Durant Building.

2.4.2.6 Transformers

Four exterior, wet-type electrical transformers were observed during the site reconnaissance. The transformers were observed to be located: (i) directly west of the emergency diesel generator located in the median north of the Administration Building; (ii) within the landscaped area along the northern wall of the Girls Wing and Whipple Building; (iii) directly west of the northwest section of the Durant Building, adjacent to the loading dock; and (iv) directly south of the Pratt building. The transformers are situated upon concrete pads. No stains were observed on the concrete pads.

2.4.2.7 Waste Disposal Area

During the site reconnaissance, Mr. Monroe identified a waste disposal area located north of the entrance to the Pratt Building. According to Mr. Monroe, this area has been used to dispose of scrap metal, wood, and brush materials since he began working at the Site in 1985. He did not comment on the types of materials that may have been placed in this area prior to his tenure at the Site. Materials observed in this area included scrap metals, asphalt, bricks and wood debris.

2.4.2.8 Wells

Off the northeast corner of the recreation field, an area adjacent to the Mystic Oral School Pond and within a fenced enclosure was reported by Mr. Monroe to contain wells. Two wells were observed within the fenced area. The wells are believed to have been formerly used to collect and pump groundwater to a fire protection water tank. A structure north of the Crouter Building parking lot and located on the south side of the recreation field contains a fire protection water tank. Water pumped to this tank is currently provided by the municipal water authority.

2.4.3 Additional Observations

Other features observed at the Site during the reconnaissance include a sports court east of the Durant Building. This court was apparently used as a basketball court. No sports equipment was observed at this location. Mr. Monroe stated that all recreation and playground equipment was removed from the property for liability issues.

2.5 **Surrounding Land Use**

The zoning designation for the Site and surrounding area is RU-80, designating a rural residential area. Much of the area surrounding the Site is comprised of undeveloped land owned by the State of Connecticut. However, the Site is bordered by a number of residential properties to the south and west, along Oral School Road and Boulder Court. An overview of the area

surrounding the Site is depicted in the map of the Mystic Educational Center and Mystic Community Center O.S., provided in Appendix C..

3. SITE HISTORY

3.1 Site Ownership Records

Information regarding property ownership was obtained through a review of the land records on file at the Town of Groton Clerk's Office. This information was supplemented with information obtained through a review of documents obtained from the Site. Based on a review of the land records, the State of Connecticut is identified as the owner of the site property. The State of Connecticut purchased the property on January 4, 1921 from the Mystic Oral School for the Deaf. A copy of the current deed for the Site that is recorded in Volume 64, Page 399 of the land records is included in Appendix C.

Based on a review of information obtained from the Site, the site property was purchased by the Whipple Home School for Deaf Mutes from Silas A. Burrows in early 1875 (Hamilton, 1975). The name of the Whipple Home School for Deaf Mutes was changed to the Mystic Oral School for the Deaf in 1895.

3.2 Aerial Photographs

In an effort to further identify the history of the Site, a review of available aerial photographs was performed. Aerial photographs from 1934, 1941, 1951, 1957, 1969, 1970, 1974, 1980, 1986, 1990, 1991/1992 (composite), 1996, 2005, 2006, and 2008 were reviewed. These photographs were provided in a data package provided by Environmental Data Resources, Inc. (EDR), a private firm that utilizes computerized database search criteria in identifying properties that are included in federal and state database records. The aerial photographs were taken at high altitude, and the resulting images were presented at varying scales according to the year they were taken, making the identification and interpretation of smaller structures and surficial features sometimes difficult. A summary of the information discerned from the available aerial photographs is presented in Table 3-1. Copies of the aerial photographs are included as part of the EDR report provided in Appendix D.

3.3 Mapping and Other Historical Sources of Information

3.3.1 Historical Topographic Maps

Historical topographic maps provided by EDR were reviewed to aid in an understanding of the developmental history of the Site and surrounding area. Historical topographic maps for the years 1892, 1913, 1943, 1948, 1958, 1970, and 1984 were reviewed. A summary of the

information discerned from the historical topographic maps is presented in Table 3-2. Copies of the historical topographic maps are included as part of the EDR report provided in Appendix D.

3.3.2 Sanborn® Fire Insurance Maps

A request for Sanborn® Fire Insurance Maps was submitted to EDR, and a search of EDR's complete holdings of Sanborn® Fire Insurance Maps was performed. Based upon this search, Sanborn® Fire Insurance Maps covering the site property and surrounding area were not found.

3.3.3 City Directories

City directories for the properties identified as 0 Oral School Road and 240 Oral School Road were reviewed at the Connecticut State Library in Hartford, Connecticut. A report of city directories for these parcels was also provided by EDR.

City directories for the following years were reviewed at the Connecticut State Library: 1956, 1970, 1979, 1981, 1987, 1995, 2000, and 2008. The Mystic Oral School for the Deaf was identified as the occupant of the Site in the city directories for 1956, 1970, and 1979. The school and the Mystic Educational Center were identified as the occupants of the Site in the city directory for 1981. The Mystic Educational Center, the Seaside Regional Center at Mystic, the United Cerebral Palsy of New London County Inc., and the Foster Grandparents were identified as the site occupants in the city directory for 1987. The site occupants listed in the 1995 city directory were Mystic Oral School, Analysis and Technology, and Engineering Technology Center. The later two entries are believed to be references to Alion. The occupants of the Site listed in the 2000 city directory were Mystic Education Center, LEARN, and Analysis and Technology, Inc. The site occupants listed in the 2008 city directory were Mystic Education Center and Alion Science and Technology.

The information provided by EDR summarizes the findings of a search of available city directory data at five-year intervals. As reported by EDR, the property identified as 240 Oral School Road was listed in city directories for the following years: 1964, 1971, 1978, and 1990. In 1964, the parties identified along Oral School Road included the Mystic Oral School for the Deaf. In the 1971 directory, parties along Oral School Road included the Mystic Oral School for the Deaf, the Lillian Rose Crouter Memorial Building, and Peter J. Owsley, the former Superintendent of the school. In 1978, the Oral School Road entries included the Mystic Oral School for the Deaf and the Lillian Rose Crouter Memorial Building. In 1990, two entries were listed for 240 Oral School Road: Little White School House, and United Cerebral Palsy of New London County Inc. These entities leased portions of the property buildings from the State of Connecticut during this time. A copy of the EDR-City Directory Image Report is included in Appendix D.

3.4 User-Provided Information and Previous Environmental Reports

A number of environmental reports prepared previously by others were provided by DECD or were obtained during a review of records maintained at the Site. A complete listing of previous environmental reports is provided in Table 3-3. Copies of the reports are included in Appendix E. The reports include the lead and asbestos inspection reports, abatement compliance reports, pre-renovation surveys, as well as renovation plans and operation and maintenance plans that were provided to LEA by DECD. The previous environmental reports also include reports pertaining to the removal of USTs at the site and the investigation of wet-type transformers.

The user-provided information and previous environmental reports were reviewed by LEA. The information included in the reports pertaining to lead and asbestos inspections and abatement were used by LEA in performing the HBM assessment of the property that is documented in a report provided separately to DECD. Summaries of the findings of the UST removal reports and other previous environmental reports pertinent to the Phase I ESA are provided as follows:

- *August, 1993 Tank Removal Report* – A Tank Removal Report prepared in August 1993 by Metcalf & Eddy documents the removal of four USTs at the Site. The four tanks that were removed include the tanks that are identified with UST ID numbers A1, A2, A3, and B4 listed in Table 2-2. Based on the information provided in the Metcalf & Eddy report, confirmatory soil samples collected from the excavation sidewalls and bottoms indicated concentrations of total petroleum hydrocarbons reported at or less than 110 milligrams per kilogram (mg/kg). No volatile organic compounds (VOCs) were detected in the samples analyzed by EPA Methods 8010 and 8020. Groundwater was not encountered in removing the USTs from the ground.

- *May 1996 Tank Removal Report* - A Tank Removal Report prepared in May 1996 by Fuss & O'Neil documents the removal one 10,000-gallon heating oil tank located adjacent to the Pratt Building. The tank is identified with UST ID designation "E" in Table 2-2. Based on the information provided in the Fuss & O'Neill report, all confirmatory soil samples collected from the excavation sidewalls and bottom indicated concentrations of total petroleum hydrocarbons below 50 mg/kg. The only VOC detected based on analyses of the soil samples using EPA Methods 8010 and 8020 was toluene, which was detected at a concentration of 9 micrograms per kilogram (µg/kg).

- *May 2003 Spill Report* - An Incident Completion Report prepared in October 2003 by Response Environmental Inc. documents the activities conducted to remediate a release of heating oil. The report states that on May 20, 2003, approximately 40 gallons of heating oil was released to the top of the concrete pad above the two 10,000-gallon

heating oil tanks during an oil delivery. These tanks are the USTs installed adjacent to the Crouter Building parking lot. As reported, the heating oil impacted the grass area north of the parking lot. Emergency response actions on the day of the release included recovering the oil, to the extent practicable, and absorbing the remaining oil with Speedy Dry. These activities also included cleaning the concrete pad with a biodegradable cleaner. In addition, the area of impacted soil was excavated to remove contaminated soil and gravel. Confirmatory samples collected from the area of excavation were analyzed for extractable total petroleum hydrocarbons (ETPH). The samples were reported to contain ETPH concentrations between 120 and 8,400 mg/kg. Excavation could not proceed further due to concerns of undermining the concrete slab overlying the USTs. Therefore, a soil vapor extraction (SVE) system consisting of a single PVC pipe was installed on June 13, 2003 following receipt of approval by DEEP. The SVE system operated until August 23, 2003 when the system was shut-off after a reading of 0.0 pars per million by volume (ppmv) was measured in the effluent air using a photoionization detector (PID)

- *July 2005 Subsurface Investigation Report* - A Subsurface Investigation Report prepared by Aaron Environmental LLC in July 2005 documents activities conducted to remediate a release of diesel fuel. The report states that on February 26, 2005, approximately 200 gallons of diesel fuel was released to the ground surface from the emergency generator located north of the Administration Building. Emergency response actions on the day of the release were performed by another contractor and not documented in this report. Between May 24 and 27, 2005, Aaron Environmental LLC removed 38 tons of contaminated soil. Based on the information provided in the report, all confirmatory soil samples collected from the excavation indicated ETPH concentrations below 410 mg/kg.

- *November 6, 1997 Hazardous Waste Audit Report* - A hazardous waste audit was performed at the Site by Environmental Services, Inc. on November 6, 1997. The waste audit identified the quantities of hazardous materials, as defined in 40 CFR 261, and the quantities of non-hazardous wastes stored at the Site. The storage locations were not described in the Hazardous Waste Audit Report. Hazardous waste stored at the Site was reported to include small containers of photograph developing solution, various acids, latex-based paint, methanol, glycerol, and formaldehyde. Container storage included eighteen 5-gallon containers of oil-based paint, one 5-gallon container of parts washing solution, and one 5-gallon container of mastic remover. Non-hazardous waste stored at the Site included two 55-gallon drums of waste oil, eight gallons of standard 30-weight oil, and 30 gallons of cement.

- *December 1990 Transformer Investigation Report* – An investigation of the electrical transformers at the Site was performed by Fuss and O'Neil, Inc. in December 1990. The investigation involved an assessment of the polychlorinated biphenyl (PCB)-content of transformer dielectric fluid. As provided in the report, nine transformers were installed at the Site in 1990. Five transformers located in the Pratt building were reported to be dry-type electrical transformers, and therefore do not contain PCBs. The dielectric fluids of the remaining four transformers were tested for PCBs. Three transformers were reported to contain dielectric fluid with PCB concentrations below 500 parts per million (ppm). The transformer located within the landscaped area along the northern wall of the Girls Wing and Whipple Building was reported to contain dielectric fluid with a PCB concentration of 630 ppm. The report recommended replacing the fluid to achieve a PCB concentration of 25 ppm. The dielectric fluid contained within this transformer was subsequently flushed. A letter from ENSR dated July 1993, indicates that the PCB content of the dielectric fluid contained within the transformer was remediated to 4 ppm.

4. RECORDS REVIEW

4.1 Environmental Records

Environmental records, including available records maintained by the EPA, DEEP, and the Town of Groton were reviewed as part of the Phase I ESA. In addition, information provided by EDR and obtained through a computerized database search of information on the Site and surrounding properties that are included in federal and state database records was reviewed as part of the Phase I ESA. The results of the EDR database search are provided in the *EDR Radius Map™ Report with GeoCheck®* provided as Appendix D. The information obtained during a review of these records was used to aid in evaluating the potential for historical land-use practices to have affected the conditions at the Site.

4.2 Electronic Database Report

4.2.1 Overview

The *EDR Radius Map™ Report with GeoCheck®* provides a summary of pertinent environmental records on the Site and on properties in the vicinity of the Site maintained by federal and state agencies. The available information provided in this report includes, but is not limited to, summaries of records maintained by the EPA and DEEP for the Resource, Conservation, and Recovery Act (RCRA) database, including Corrective Action Sites (CORRACTS); Hazardous Waste; RCRA Facility Assessments; Solid Waste Management Units; Toxic Substances Control Act (TSCA) inspections; DEEP Permitting; Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) listings (CERCLIS); Superfund listings; Air Quality Pollution Control information; Superfund Amendments and Reauthorization Act Right-to-Know (Title 3) information; the Emergency Response Notification System (ERNS); the Facility Index System (FINDS); Oil and Chemical Spills; Leaking Underground Storage Tank (LUST) listings; Connecticut Leachate and Wastewater Discharge Sites (LWDS); Site Discovery and Assessment Database (SDADB); and, Property Transfer Filings. Only those properties identified within the approximate minimum search distances specified in ASTM E 1527-05 are summarized in the EDR Report.

The information provided in the EDR Report includes an evaluation of the likelihood that operations and/or conditions at surrounding properties could adversely affect soil or groundwater quality beneath the Site. Such factors as the reported nature and volume of any release, the distance between a reported release location and the Site, and the direction of the reported release location from the Site were considered in this evaluation. Because the groundwater flow

direction beneath surrounding properties and the Site has not been confirmed, it is not possible to definitively state whether the soil and groundwater beneath the Site may be impacted by operations and/or conditions at surrounding properties.

The EDR Report includes a map that identifies two wells located approximately one-half mile south of the Site. The wells are reported to be USGS wells. East of the Mystic River, the EDR report identifies one well that is located between one-half and one mile east of the Site and is identified as a community well. The only other water wells identified in the EDR report include an additional USGS well located between one-half and one mile south-southwest of the Site and a community well located approximately one mile south-southwest of the Site.

4.2.2 Database Records Pertaining to the Site Property

The EDR Report identified several environmental records for the Site including hazardous waste manifests, oil and chemical spill reports, UST records, and air permits that were also identified during a review of municipal and state records. Because the original documents were reviewed during the review of municipal and state records, the findings are discussed in those sections of this report.

One environmental record that was identified in the EDR Report, and not elsewhere, is a National Pollutant Discharge Elimination System (NPDES) permit. The NPDES permit is a General Permit for the Discharge of Swimming Pool Wastewater that was issued on December 21, 2009. According to Mr. Monroe, the records for this permitted discharge and the records for all permits for the site property are maintained at the DAS offices in Hartford, Connecticut. Copies of the permits and associated records were not obtained during the Phase I assessment activities.

4.2.3 Database Records Related to Off-Site Properties

There were no surrounding properties that were included in the summaries of records maintained by the EPA and DEEP, as provided in the EDR Report.

4.3 **Federal Environmental Records**

On February 7, 2013 a representative of LEA queried all environmental records from the EPA through the online EPA database. A search of the Envirofacts database and the website “My Property” was performed. As provided by EPA, the records obtained through this search represent the same records that would be obtained through a Freedom of Information Act (FOIA) request. This search of the EPA databases resulted in the identification of four environmental records for the Mystic Educational Center in the Connecticut Site Information Management

System (SIMS). Three of the four environmental records are entries in the Air Program related to the heating oil burner located in the basement of the Administration Building. The fourth record is an entry in the Underground Storage Tank Program. These entries are consistent with those for records found during the review of State Environmental Records, discussed below. Copies of pertinent federal environmental records reviewed by LEA are provided in Appendix F.

4.4 State Environmental Records

4.4.1 Overview

On January 16, 2013, an LEA representative conducted a review of the files and maps maintained in the DEEP pubic records room under the following categories: Remediation, Water Orders, Oil and Chemical Spills Reports and Correspondence, Air Permits and Enforcement, Industrial Water Correspondence Files, Stormwater Correspondence Files, Solid Waste, Water Industry Survey (P5), Hazardous Waste, Underground Storage Tanks, Tank Closure Reports, Sub-Surface, and Water Permit Applications. An LEA representative also searched for the Site in the DEEP computer database, accessible in the public records room. The computer database includes: the Hazardous Waste Manifest Database, which stores manifest data generated between January 1, 1984 and December 31, 2007; the SPILLS Database, which stores information on oil and chemical spills since 1996; and the Leaking Underground Storage Tank Database. Copies of pertinent documents reviewed by LEA are provided in Appendix G.

4.4.2 Underground Storage Tank Records

According to the UST database maintained by DEEP, there are three USTs currently in use at the Site. Two 10,000 gallon heating oil tanks exist to the west of the boiler room of the Administration Building and one 10,000 gallon heating oil tank exists to the east of the Pratt Building. The three existing USTs are constructed of fiberglass reinforced plastic.

Five USTs have been removed from the Site according to the DEEP UST database. Four tanks were removed in 1992 by Metcalf and Eddy as indicated in the Tank Removal Report. The four tanks included a 10,000 gallon heating oil tank, a 7,500 gallon heating oil tank, a 250 gallon heating oil tank and a 500 gallon gasoline tank. The three heating oil tanks were located near the boiler room of the Administration Building and the gasoline tank was located within the courtyard of the Administration Building. These tanks are included in the list of USTs summarized in Table 2-2.

As provided in the state UST records, confirmatory soil samples collected from the excavation sidewalls and bottoms indicated concentrations of total petroleum hydrocarbons reported at or

less than 110 mg/kg. No VOCs were detected in the samples analyzed by EPA Methods 8010 and 8020. Groundwater was not encountered in removing the USTs from the ground.

The state UST records also indicate that one 10,000-gallon heating oil tank was removed from the Site in 1996. This UST was removed by Fuss and O'Neil, Inc. This UST was located in the present-day location of the two 10,000-gallon heating oil USTs adjacent to the Crouter Building parking lot. Confirmatory soil samples collected from the excavation sidewalls and bottoms indicated concentrations of total petroleum hydrocarbons below 50 mg/kg. The only VOC detected based on analyses of the soil samples using EPA Methods 8010 and 8020 was toluene, which was detected at a concentration of 9 µg/kg.

4.4.3 Oil and Chemical Spill Records

Six Oil and Chemical spill records were on file at DEEP. Most of these records are related to releases of heating oil. Hard copies of these records were also identified during a review of records maintained at the Site. A summary of the Oil and Chemical spill records is provided in Table 4-1. The following description summarizes the information on the oil and chemical spill records.

- On December 15, 1976, approximately 3 gallons of No. 4 heating oil were released during tank filling operations. The spill report did not indicate the location of the spill, however based on the tanks installed at the time and on information provided by Mr. Monroe, the tank being filled at the time was located in the tank field directly adjacent to the boiler room of the Administration Building.

- On September 2, 1998, 4 gallons of No. 2 heating oil were spilled to the ground surface during filling operations. The spill report indicates that the heating oil was contained and removed.

- On January 4, 2002, 30 gallons of No. 2 heating oil were spilled to the ground surface during an oil transfer from one tank to another tank. The location of the spill was not documented in the spill report.

- On May 20, 2003 approximately 40 gallons of No. 2 heating oil was spilled to the ground surface near the two 10,000-gallon USTs installed adjacent to the Crouter Building parking lot. The oil was reported to have been contained with Speedi-Dry absorbent material. As provided in the spill report, the soil with visible product was removed and disposed off-site.

- On October 18, 2004, approximately 300 gallons of No. 2 heating oil were released in the boiler room of the Administration Building. The release was attributed to a ruptured seal. The heating oil flowed over the concrete floor to the boiler room sump. According to the spill report, a vacuum tanker was used to remove the oil from the sump and the floor of the boiler room and absorbent pads were used to collect residual oil in the sump. It is noted that during the site reconnaissance, Mr. Monroe stated that subsequent to the response actions that were taken to address this spill, oil would "ooze" through the cracks within the concrete of the sump and into the sump following precipitation events. According to Mr. Monroe, the amount of oil "oozing" into the sump dissipated over time and eventually disappeared. Following this incident, a concrete berm was installed across the floor in the vicinity of the sump.

- On February 26, 2005, approximately 150 gallons (identified above in Section 3.4 as approximately 200 gallons) of diesel fuel were released to the asphalt paved area near the emergency diesel generator. According to the spill report, an absorbent material was spread on the pavement to contain the diesel fuel, and the absorbent material as well as stained snow and oily debris were removed from the Site.

4.4.4 Hazardous Waste Manifests

Hazardous waste manifests are stored in a database that is accessible at the DEEP file room. The database records consist of Generator Summary Reports These reports include information that was recorded on each State manifest. Copies of original manifests, however, are not maintained in the database. Copies of the original hazardous waste manifests were obtained during a review of files maintained at the Site. The findings of this review are discussed in Section 4.5.

Based on the Generator Summary Report for the Site, hazardous wastes were shipped from the Site on June 20, 1991 and June 7, 2005. The waste shipped from the Site on June 20, 1991 consisted of 15 cubic yards of a solid waste characteristically hazardous due to its mercury content. The waste shipped from the Site on June 7, 2005 included 180 gallons of a liquid waste characteristically hazardous due to it corrosivity. This waste also included 110 gallons of a liquid waste characteristically hazardous due to its lead content and 750 pounds of liquid wastes identified as flammable liquids. Solid waste shipped from the Site on June 7, 2005 included: 3,450 pounds of waste, characteristically hazardous due to its lead content; and, 30 pounds of sodium hypochlorite, which was shipped as an ignitable waste.

4.4.5 Municipal Records

4.4.5.1 Overview

Files located in the offices of the Town of Groton Tax Assessor, City Clerk, Building Department, Planning and Zoning Department, and Fire Marshal were requested and, if available, were reviewed on January 17, 2013. Pertinent information maintained by the Town of Groton is summarized in the following sections. Copies of the records obtained from the Town of Groton municipal offices are provided in Appendix C.

4.4.5.2 Tax Assessor Records

The Tax Assessor's Office maintains information regarding the parcels of land and improvements thereon for tax purposes. There is one tax assessor's card on file for 0 Oral School Road and six tax assessor's cards on file for 240 Oral School Road. The six tax assessor's cards on file for 240 Oral School Rd correspond to individual buildings on the Site.

4.4.5.3 City Clerk Records

The Office of the City Clerk maintains all of the City's land records. Land records in the form of property transfer deeds and mapping were reviewed to identify past ownership and uses of the Site. Information contained in the land records is presented above in Section 3.1.

4.4.5.4 Building Department and Planning and Zoning Records

Records on file with the Building Department and the Department of Planning and Zoning included a Lease of the Boys Dorm to Analysis and Technology, and information regarding the cellular towers installed on the boiler smokestack.

4.4.5.5 Fire Marshal Records

The Office of the Fire Marshal maintains environmental records pertaining to registered USTs, identified hazardous material or petroleum handling, storage, or disposal, and inspection records. It was reported by staff of this office that there were no files or records pertaining to USTs or hazardous materials at the Site. One file on record at the Fire Marshal identified an area of fill located on the 0 Oral School Road parcel. In September of 2002, a Land Use Application was approved to place 500 cubic yards of fill surrounding the former Cook's House. The area of fill extends 50 feet west of the former building, 50 feet south of the former building, and 75 feet east of the former building.

4.5 Site Records

Documents pertaining to most of the records that were summarized in the EDR Report or that are maintained in the DEEP databases are maintained at the Site. Copies of the records obtained from the Site are provided in Appendix H. These records included a number of waste manifests. Three manifests document the disposal of PCBs from the Site as a hazardous waste. On April 9, 1991, three kilograms of PCBs were transported from the Site as a hazardous waste; on June 30, 1992, 543 kilograms of PCBs were transported from the Site as a hazardous waste; and on February 24, 1993, 452 kilograms of PCBs were transported from the Site as a hazardous waste. A summary of the wastes shipped from the Site is provided in Table 4-2.

Also, based on a review of the manifest records maintained at the Site, 120 gallons, or approximately 400 kilograms, of waste paint material was transported from the Site along with approximately 3,000 pounds (1,350 kilograms) of Connecticut Regulated waste in 2002. The waste paint material was transported and disposed as a D001 / U239 hazardous waste. This waste was found to exhibit the characteristic of ignitability.

In addition, 750 pounds, or approximately 340 kilograms, of waste identified as flammable liquid was transported from the Site on June 7, 2005. As provided on the hazardous waste manifest, this waste was transported and disposed as a D001 hazardous waste. A note on the hazardous waste manifest indicated that the hazardous waste was related to roof coating materials.

The copies of the records obtained from the Site also include various drawings of the site buildings. In a set of drawings of the Crouter Building, dated June 1958, the driveway located north of the Girl's Wing is identified as an "Existing Oiled Gravel Driveway." Using oil to prevent dust on gravel roads was a common practice prior to and into the 1970's. Oils formerly used to control dust on roads in some areas of the country were later found to contain PCBs.

In addition, the site records include a plot plan of the site area adjacent to the Crouter Building. A rubbish burner is identified on this plan, north of the driveway/parking area of the Administration Building. The plot plan also identifies the location of a former shop and garage in this area of the Site. These buildings were visible in the pre-1974 aerial photographs that were reviewed and that are included in Appendix D.

Other drawings maintained at the Site include a piping plan of the Crouter Building that shows that the floor drain located in the paint room is connected to the sanitary sewer line. These drawings also include drawings for the installation of the emergency diesel generator dated June 1992 that show a 550 gallon UST in the location of the existing AST. According to Mr. Monroe, the UST was removed from the Site in response to the emergency generator spill that occurred in

2005. Other information maintained at the Site includes hand-written notes and photographs of the excavated area of the UST taken in response to this spill. Although the date that the UST was installed is not known, a permit application for a diesel generator, dated July 14, 1997, was found to be maintained at the Site.

5. ENVIRONMENTAL SETTING

5.1 Topography

The Site is located on a plateau that offers expansive views of the Mystic River to the east. Based on a review of the USGS 7.5-Minute Series Topographic Map of the Old Mystic and Mystic Connecticut Quadrangles, the Site is situated at an elevation of approximately 160 feet above mean sea level (USGS, 1983 and 1984, photo-revised 1989 and 1996). The ground elevations at the Site are shown in Drawing 2-1. East and southeast of the site buildings, the property slopes toward the Mystic River to the east. South and southwest of the site buildings, the property slopes toward the south West of the Site, the property slopes in general toward the south.

5.2 Surface Water and Drainage

The Mystic Oral School Pond, encompassing an area of approximately 0.5 acres, is located on the northern portion of the Site. The nearest off-site surface water body is the Mystic River, located approximately 0.3 miles east of the Site. The Mystic River flows into Long Island Sound.

Site drainage features include a combination of catch basins, dry wells, and parking lot leak-offs. Catch basins are present in the parking area surrounding the Pratt Building. These catch basins discharge to an outfall located south of the Pratt Building parking lot. Surface water runoff from the other parking lots is conveyed onto the surrounding ground surface via parking lot leak-offs. Roof drainage from several site buildings is directed toward drywells.

5.3 Wetlands/Watercourses

According to the Fish and Wildlife Service Wetlands Map, there are no mapped wetlands on the Site. The Mystic Oral School Pond located on the Site is identified as a freshwater pond.

5.4 Floodplain

Based on the Flood Insurance Rate Maps (FIRM), New London County, Map Numbers 09011C0388G, 09011C0388G, and 09011C0526G, effective July 18, 2011, and prepared by the Federal Emergency Management Agency, the Site is located in an area outside of the 0.2 percent annual chance floodplain. A copy of the relevant portion of the FIRMs are included as Appendix F.

5.5 Groundwater Quality

Based upon a review of the most recent update to the GIS groundwater quality data layer provided by DEEP (2012), and the *Water Quality Standards* published by the DEEP Water Management Bureau (CT DEEP, 1996, revised 2011), groundwater in the vicinity of the Site has a classification of "GA". Groundwater with a GA classification is defined as existing private and potential public or private supplies of water suitable for drinking without treatment, and baseflow for hydraulically connected surface water bodies.

5.6 Surface Water Quality

Based upon a review of the most recent update to the GIS surface water quality data layer provided by DEEP in 2012, and the *Water Quality Standards*, published by the DEEP Water Management Bureau (1996, revised 2011), the Mystic Oral School Pond located on the Site has a water quality classification of "A". Designated uses for Class A water include habitat for fish and other aquatic life and wildlife, potential drinking water supplies, recreation, navigation, and water supply for industry and agriculture. The Mystic River located east of the Site has a water quality classification of "SB". Designated uses for Class SB waters are habitat for marine fish and aquatic life and wildlife, commercial shellfish harvesting, recreation, industrial water supply, and navigation.

5.7 Surficial and Unconsolidated Geology

Information regarding the surficial and unconsolidated geology in the vicinity of the Site was obtained from a review of the Quarternary Geologic Map of Connecticut and Long Island Sound Basin (Stone, et al, 2005) and the DEEP GIS data layer for surficial materials provided by DEEP in 2003. Unconsolidated surficial geologic deposits near the Site are comprised of glacial ice-laid deposits described as thin till. The till consists of non-sorted, generally non-stratified mixtures of grain-sizes ranging from clay to large boulders. Sands and silts comprise the majority of the till matrix.

5.8 Bedrock Geology

Based on a review of the most recent update to the GIS bedrock data layer provided by DEEP in 2003, and the *Geologic Map of the Old Mystic Quadrangle, Connecticut* (Rodgers, 1985), the bedrock beneath the Site and surrounding area is mapped as three different formations: the Plainfield Formation, the Hope Valley Alaskite Gneiss, and the Mamacoke Formation. The Plainfield Formation is described as interlayered thinly bedded quartzite, mica schist, and dark-gray gneiss. The Hope Valley Alaskite Gneiss is described as a light-pink to gray, medium- to

coarse-grained granitic gneiss. The Mamacoke Formation is described as an interlayered light to dark gray medium-grained gneiss.

Bedrock was observed to outcrop at several locations at the Site. Moreover, Mr. Monroe explained that blasting was needed to remove bedrock so that the driveway southeast of the Boys Wing could be constructed and so that the UST adjacent to the Pratt Building could be installed.

5.9 Hydrogeology

Based on the published topographic maps referenced in Section 5.1, and on observations of the topography made by LEA personnel at the Site, groundwater for the eastern extent of the Site is believed to flow to the east toward the Mystic River. With the exception of the western portion of the property, groundwater beneath the remaining areas of the Site is expected to flow toward the southeast toward the Mystic River. For the western portion of the Site, groundwater is expected to flow toward the south and southwest to a tributary of the Mystic River located west of Oral School Road.

According to the *Atlas of Public Water Supply Sources and Drainage Basins of Connecticut, Bulletin Number 4* (DEEP, 1982), no public water supply wells are located within an approximate one-mile radius of the Site. Based upon a review of the most recent update to the GIS aquifer protection data layer provided by DEEP in 2013 there are no aquifer protection areas in the vicinity of the Site.

6. AREAS OF CONCERN

6.1 Identification of Areas of Concern

Based on the investigation into the documented history of the Site and observations made during a site reconnaissance, seventeen AOCs have been identified for the Site. The approximate locations of the AOCs are shown in Drawing 6-1. The most significant of the AOCs include the existing and former USTs installed at the Site.

Information currently available indicates that releases have occurred to soil at one or more of the AOCs identified for the Site. While response actions have been taken to address the reported releases, further assessment will be needed to identify the extent of contamination in these AOCs. An assessment of soil and groundwater will also be needed to identify whether or not a release had occurred in other AOCs. The AOCs shown in Drawing 6-1 represent the primary locations for which evaluation of soil and/or groundwater quality will be necessary to evaluate the nature and extent of any releases that are known to have occurred or that might have occurred at the Site.

6.2 Preliminary Conceptual Site model

To assess the potential for risk associated with any contamination that may be present at the Site, it is necessary to develop a preliminary CSM that identifies locations where contaminants might have been released (AOCs), identifies the potential constituents of concern, and identifies the potential mechanism by which contaminants could have been released and could have migrated in the environment. In addition, the preliminary CSM identifies the environmental media that would most likely be affected if there had been a release. A preliminary CSM for contaminants possibly present at the Site describes the conditions and processes at the Site that are likely to influence contaminant fate and transport. The preliminary CSM is fundamental to designing a plan to evaluate whether or not there have in fact been any releases at a site, as well as to ultimately assessing the nature and extent of any contamination resulting from releases.

The preliminary CSM developed for the Site is presented in Table 6-1. This table provides pertinent information on each of the seventeen AOCs identified at the Site. A summary of this information is presented below.

6.2.1 AOC 1 Recreation Field

The Recreation Field located in the northern portion of the Site was used historically for farming. According to Mr. Monroe, this area of the Site was the location of several small buildings that

were used to grow crops. The field has also been used as a baseball diamond and a football field. Mr. Monroe stated that, historically, fill material was placed in the area of this field to maintain its playing condition.

Contaminants of concern within this AOC include pesticides and herbicides that may have been applied when the field was used to grow crops. Other constituents of concern include contaminants that may have been included in fill material that was placed in this area. These additional constituents include VOCs, semi-volatile organic compounds (SVOCs), petroleum hydrocarbons, PCBs, and metals.

6.2.2 AOC 2 Fire Department Training Area and Area of Fill

The 0 Oral School Road parcel located on the western portion of the Site is the former location of the Cook's House. This parcel is currently used as a fire fighting training center. The former Cook's House was destroyed in a fire during fire training exercises.

Potential sources of contamination include fuels that may have been used as an ignition source for fire fighting training, as well as contaminants that may have been released to the ground due to the incomplete combustion of building materials. In addition, contaminants may have been present in the fill material placed in this area to raise the grade of the property. Constituents of concern include VOCs, SVOCs, petroleum hydrocarbons, PCBs, and metals.

6.2.3 AOC 3 Solid Waste Disposal Area

The area located north of the entrance to the Pratt Building has been used as a disposal area for scrap metal, wood, asphalt, bricks, and other solid waste. Constituents of concern include VOCs, SVOCs, petroleum hydrocarbons, PCBs, metals, pesticides, and herbicides.

6.2.4 AOC 4 Former Oiled Gravel Driveway

The driveway located north of the Girls Wing was formerly identified as an "Existing Oiled Gravel Driveway." While this area of the driveway is now paved, it may have been impacted by the oil placed on the driveway in the past. The contaminants of concern for this AOC include SVOCs, petroleum hydrocarbons, PCBs, and metals.

6.2.5 AOC 5 Former and Existing Underground Storage Tanks

A number of USTs have been used at the Site to store heating oil. One heating oil UST has been abandoned-in place and four other heating oil USTs have been removed from the site. In addition, one UST formerly used to store gasoline was removed from the Site. A diesel fuel

UST associated with the emergency generator was also removed from the Site. Existing USTs at the Site include three 10,000-gallon USTs used to store heating oil.

Releases of petroleum hydrocarbons associated with the storage of former and existing USTs at the Site have previously been reported. While the laboratory analytical data for samples collected following response actions taken to address these releases indicate that the impacts have been cleaned-up, there may have been other UST releases that have not been addressed. Constituents of concern include VOCs, SVOCs, petroleum hydrocarbons, and metals.

6.2.6 AOC 6 Above-Ground Storage Tanks

There are two existing 275-gallon heating oil ASTs maintained at the Site. One AST is located in the basement of the Rainbow House, and the other is located in the Maintenance Garage. The concrete floors beneath each tank were observed to be stained with oil. Contaminants of concern include VOCs, SVOCs, petroleum hydrocarbons, and metals.

6.2.7 AOC 7 Perimeter of Existing Buildings

The use of pesticides and herbicides to control pests and weeds is a common practice. Heavy application of pesticides and herbicides at State-owned facilities is known to have occurred. At the Site, these chemicals would have typically been applied to the ground surface along the perimeter of buildings. Given the age of the Site buildings and apparent extended use of pesticides and herbicides, the possibility of contamination in the shallow soils exists as a result of pesticide and herbicide application. The possibility of contamination in the shallow soils may also exist from paint that may have peeled from various buildings. Constituents of concern include pesticides, herbicides, and lead.

6.2.8 AOC 8 Transformers

Four exterior, wet-type electrical transformers were observed during the site reconnaissance. The transformers are situated upon concrete pads. No stains were observed on the concrete pads. Potential release mechanisms include spills of dielectric fluid to the concrete pad and to the surrounding shallow soil. The constituents of concern include petroleum hydrocarbons and PCBs.

6.2.9 AOC 9 Crouter Building

The Crouter Building was used as for classroom space, a carpentry shop, a paint room/spray paint booth, an internal combustion engine laboratory, and a gymnasium. The building is currently used to store equipment and materials. Materials stored in the building include empty

containers of hydrochloric acid. Areas of the floor within the internal combustion engine laboratory were observed to be stained. Potential transport mechanisms include the migration of spilled materials through the concrete floor. The contaminants of concern include VOCs, SVOCs, petroleum hydrocarbons, and metals.

6.2.10 AOC 10 Administration Building and Girls Wing Boiler Rooms

A release of heating oil was reported to have occurred within the boiler room of the Administration Building. The release resulted in the migration of heating oil across the floor into the sump. In addition, boiler blow-down water that is discharged on a daily basis to the sump was historically discharged through the concrete floor of this room. Heating oil released to the concrete floor of the boiler room may have migrated through the floor and impacted underlying soil. In addition, boiler blow-down water released directly through the concrete floor may have impacted underlying soil. The constituents of concern include VOCs, SVOCs, petroleum hydrocarbons, and metals.

6.2.11 AOC 11 Administration Building Storage Rooms and Photography Lab

The storage rooms within the Administration Building include the Janitor room. The janitor room was observed to contain a number of chemical cleaning products. The floor of the janitor room was observed to be stained. Hazardous wastes or hazardous substances that may have been released to the floor may have penetrated the concrete and impacted underlying shallow soils. The constituents of concern include VOCs, SVOCs, petroleum hydrocarbons, and metals.

The photography laboratory located on the ground floor of the Boys Wing was observed to be constructed of cinder block. The floor within this laboratory appeared to be in relatively good condition. No staining was observed. A drain located within this room was reported to be connected to the on-site wastewater discharge system. Any chemicals that were spilled to the floor of the laboratory may have migrated through the concrete or around the floor drain piping, and may have impacted underlying shallow soils. The constituents of concern include VOCs, metals, and cyanide.

6.2.12 AOC 12 Hydraulic Elevators

Two hydraulically-powered elevators exist within the Administration Building. A passenger elevator is located within the central part of the Administration Building. A freight elevator is located adjacent to the loading dock within this building and was formerly used to deliver goods to the kitchen located on the second floor. In addition, one pulley-operated elevator is located within the boiler room of the Administration Building. The concrete floor was stained near the

hydraulic reservoir of the freight elevator located adjacent to the loading dock of the Administration Building. The constituents of concern include VOCs, SVOCs, petroleum hydrocarbons, PCBs, and metals.

6.2.13 AOC 13 Emergency Diesel Generator

The reported release of approximately 150 to 200 gallons of diesel oil to the ground in the area of the emergency generator may have impacted subsurface soil. In addition, there may have been other releases of diesel oil from the UST formerly located in this AOC. The diesel oil may have been released directly to the soil from a leak in the UST or subsurface piping. Oil released to the ground may have migrated through shallow soil and impacted subsurface soils. The constituents of concern include VOCs, SVOCs, metals, and petroleum hydrocarbons.

6.2.14 AOC 14 Maintenance Garage / Storage Areas

The Maintenance Garage represents an AOC due to the heating oil furnace and associated 275-gallon AST located along the southern wall of the building, the storage of other chemicals including gasoline in the building, and the service operations performed on equipment in the building. The liquid waste accumulation area of the Wood Shed also represents an AOC. Several containers of liquid waste including waste oils and waste gasoline were observed to be stored on a containment pallet in this shed. Also, the concrete floor of this shed was observed to be heavily stained with oil. The Rainbow House Garage represents an AOC given the age of the structure and the paint that appeared to be peeling off the garage. The constituents of concern include VOCs, SVOCs, petroleum hydrocarbons, PCBs, and metals.

6.2.15 AOC 15 Pratt Building Mechanical Rooms

The Pratt Building mechanical rooms include the boiler room and the pool chemical supply room. The floor of the boiler room was observed to be stained in several areas. The pool chemical supply room was formerly used to add chlorine to circulated pool water and to back-flush the pool water. The floor of this room was also observed to be stained. The staining that was observed in the mechanical rooms is typical for the functions served by these rooms. The constituents of concern include VOCs, SVOCs, petroleum hydrocarbons, and metals.

6.2.16 AOC 16 Former Rubbish Burner / Shop / Garage

The former site features include the rubbish burner and the two buildings identified as a shop and a garage formerly located north of the driveway/parking area of the Administration Building. Based on the apparent use of these former features, it is possible that chemicals may have been released to the ground in this area of the Site. Potential release mechanisms include spills from

equipment or containers onto the ground surface. The constituents of concern include VOCs, SVOCs, petroleum hydrocarbons, PCBs, and metals.

6.2.17 AOC 17 Loading Docks

The loading docks at the Site were used to receive goods and materials, including small quantities of chemicals, delivered to the Administration Building and the Durant Building. The loading docks did not appear to be stained. Any chemicals that may have been spilled on the loading docks could have flowed onto the adjoining ground surface and could have migrated through the paved surface to underlying soils. The constituents of concern include VOCs, SVOCs, petroleum hydrocarbons, and metals.

7. FINDINGS, OPINION, AND CONCLUSIONS

7.1 Findings

A summary of findings resulting from LEA's assessment of the documented history of the Site and observations made during a site reconnaissance conducted on January 17 and 24, 2013 are provided below.

- The Site is the location of the former Mystic Oral School for the Deaf located in Groton, Connecticut. This property is currently owned by the State of Connecticut. The Site is comprised of the developed portions of two parcels: 0 Oral School Road and 240 Oral School Road.

- The Site is currently vacant, and with the exception of personnel conducting routine maintenance of the Site, the buildings at the Site are unoccupied. The 0 Oral School Road parcel is leased by the State of Connecticut to Reliance Fire Department, Incorporated and is used by the Old Mystic Fire Department for fire fighting training. The 240 Oral School parcel is improved with seven primary buildings and ancillary site improvements including two garage buildings, one shed, driveways and parking lots. This parcel also includes a recreation field and fire pond identified as Mystic Oral School Pond.

- The buildings at the Site were formerly used for classrooms, dormitories, as well as living space for families of children enrolled in the school. In addition, the school facilities included a recreation field, a photography laboratory, gymnasiums, a natatorium, an internal combustion engine laboratory, carpentry and paint shops, and garages and storage sheds. The recreation field was used historically for farming. Upon closing the school, a number of the buildings at the Site were leased to various entities.

- Much of the area surrounding the Site is comprised of undeveloped land owned by the State of Connecticut. However, the Site is bordered by a number of residential properties to the south and west along Oral School Road and Boulder Court.

- Three ASTs and three USTs are currently being used at the Site. In addition, six USTs were removed from the Site and one UST was abandoned in-place.

- Significant spills that have been reported for the Site include: (i) 30 gallons of No. 2 heating oil spilled to the ground surface on January 4, 2002; (ii) approximately 40 gallons of No. 2 heating oil spilled to the ground surface on May 20, 2003; (iii) approximately 300 gallons of No. 2 heating oil released in the boiler room of the Administration Building on October 18, 2004; and (iv) approximately 150 to 200 gallons of diesel fuel released to the ground adjacent to the emergency generator on February 26, 2005. Laboratory analytical results support the documentation of actions that have been taken in response to these spills.

- On June 30, 1992, 543 kilograms of PCBs were transported from the Site as a hazardous waste, and on February 24, 1993, 452 kilograms of PCBs were transported from the Site as a

hazardous waste. Also, on June 7, 2005, 750 pounds (approximately 340 kilograms) of hazardous waste related to roof coating materials were transported from the Site.

- A solid waste disposal area that has been used to dispose asphalt, brush, wood, scrap metal, and other debris is located north of the Pratt Building driveway.

- Seventeen AOCs identified for the Site are:

    - AOC 1 Recreation Field
    - AOC 2 Fire Department Training Area and Area of Fill
    - AOC 3 Solid Waste Disposal Area
    - AOC 4 Former Oiled Gravel Driveway
    - AOC 5 Former and Existing Underground Storage Tanks
    - AOC 6 Above-Ground Storage Tanks
    - AOC 7 Perimeter of Existing Buildings
    - AOC 8 Transformers
    - AOC 9 Crouter Building
    - AOC 10 Administration Building and Girls Wing Boiler Rooms
    - AOC 11 Administration Building Storage Rooms and Photography Lab
    - AOC 12 Hydraulic Elevators
    - AOC 13 Emergency Diesel Generator
    - AOC 14 Maintenance Garage / Storage Areas
    - AOC 15 Pratt Building Mechanical Rooms
    - AOC 16 Former Rubbish Burner / Shop / Garage
    - AOC 17 Loading Docks

- Unconsolidated surficial geologic deposits beneath the Site are comprised of glacial ice-laid deposits described as thin till. Bedrock outcrops at several locations at the Site. The Site is located in an area classified as GA for groundwater quality. The Mystic Oral School Pond located on the Site has a water quality classification of “A”.

- There are no known potential off-site sources of contamination that may affect the environmental integrity of the Site.

7.2 Opinion

A Phase I Environmental Site Assessment of the former Mystic Oral School property located in Groton, Connecticut has been performed in conformance with the scope and limitations of ASTM E 1527-05, which incorporates the AAI Final Rule. Any exceptions to, or deletions from, this practice are described in Section 1.3 of this report. It is the opinion of the Environmental Professional that this assessment has revealed conditions indicative of releases of hazardous substances and/or petroleum products at the Site, as concluded in Section 7.3. Sampling and laboratory analyses will be needed to define the extent and degree of the resulting contamination.

7.3 Conclusions

Section 22a-134 (3) of the CGS, also known as the Connecticut Property Transfer Act, as amended by Public Act 95-183 and Public Act 01-204, defines an establishment as follows:

> "Establishment" means any real property at which or any business operation from which (A) on or after November 19, 1980, there was generated, except as the result of remediation of polluted soil, groundwater or sediment, more than one hundred kilograms of hazardous waste in any one month, (B) hazardous waste generated at a different location was recycled, reclaimed, reused, stored, handled, treated, transported or disposed of, (C) the process of dry cleaning was conducted on or after May 1, 1967, (D) furniture stripping was conducted on or after May 1, 1967, or (E) a vehicle body repair facility was located on or after May 1, 1967."

Furthermore, Sections 22a-134 to 22a-134e of the CGS require that an assessment of any discharge, spill, uncontrolled loss, seepage, or filtration of hazardous waste at an establishment be conducted prior to the transfer of the facility.

Given that 543 kilograms of PCBs were transported from the Site as a hazardous waste on June 30, 1992; 452 kilograms of PCBs were transported from the Site as a hazardous waste on February 24, 1993; and approximately 340 kilograms of hazardous waste were transported from the Site on June 7, 2005, the Site appears to be an establishment. Thus, it appears that an assessment of any discharge, spill, uncontrolled loss, seepage, or filtration of hazardous waste at the Site is required prior to the transfer of the facility. Notwithstanding this conclusion, a final determination as to whether or not the Site meets the definition of an establishment that is subject to the provisions outlined in the Connecticut Property Transfer Act should be made by legal counsel.

The Phase I ESA performed by LEA has revealed conditions indicative of releases of hazardous substances and/or petroleum products at the Site. There is a potential for activities that have occurred at the Site to have affected the quality of soil and/or groundwater beneath the Site. Phase II subsurface investigation activities need to be performed to identify the sources of any impacts to soil and groundwater. These activities also need to be performed, including the laboratory analyses of soil and groundwater samples, to assess whether or not any releases of hazardous substances or petroleum products have affected the quality of soil and groundwater beneath the Site. In addition, the solid waste disposal area identified as AOC 3 must be closed in accordance with the Connecticut Solid Waste Management Regulations promulgated under Sections 22a-209-1 *et seq* of the RCSA.

8. STATEMENT OF THE ENVIRONMENTAL PROFESSIONAL

As required by 40 CFR 312.21(d), the Phase I ESA report shall include the following statements of the environmental professional(s) responsible for conducting the Phase I ESA and preparation of the report.

> *I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of this part (40 CFR 312). I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.*

Signature of Environmental Professional | Date

6/17/2013

David N. Scotti, P.G.

A copy of the résumé of the Environmental Professional is provided as Appendix I.

9. REFERENCES

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TABLES

Table 2-1
SUMMARY OF BUILDING INFORMATION
240 Oral School Road, Mystic Connecticut

Building Name	Construction Material	Year Constructed	Number of Floors	Building Footprint (square feet)
Administration Building / Boys Wing	Masonry	1938	4	69,658
Girls Wing	Masonry	1938	4	28,711
Whipple Building	Masonry	1968	2	24,458
Crouter Building	Masonry	1958	1	7,588
Rainbow House	Wood	1928	2 (w/ attic and basement)	2,480
Rainbow House Garage	Wood	1928	1	Not Available
Durant Building	Masonry	1973	3	58,233
Maintenance Building	Masonry Brick	1969	1	1,276
Wood Shed	Wood	1930	1	720
Pratt Building	Masonry	1975	2	40,000

Table 2-2
SUMMARY OF FORMER AND EXISTING UNDERGROUND STORAGE TANKS (USTs)
240 Oral School Road, Mystic Connecticut

Loureiro
Engineering • Construction • EH&S • Energy • Waste

UST Location	UST ID	UST Construction Material	Material/Product Stored	UST Volume (gallons)	Date Installed	Date Removed
West of Administration Building Boiler Room	A1	Steel	Heating Oil	250	1/1/1970	9/1/1992
West of Administration Building Boiler Room	A2	Steel	Heating Oil	7500	1/1/1960	9/1/1992
Administration Building/Crouter Building Parking Area	A2R1	Fiberglass Reinforced Plastic	Heating Oil	10000	1/1/1993	Currently In Use
Administration Building/Crouter Building Parking Area	A3	Steel	Heating Oil	10000	1/1/1975	9/1/1992
Administration Building/Crouter Building Parking Area	A3R1	Fiberglass Reinforced Plastic	Heating Oil	10000	1/1/1993	Currently In Use
Administration Building Courtyard	B4	Steel	Gasoline	500	1/1/1930	9/1/1992
Pratt Building Parking Area	E	Steel	Heating Oil	10000	1/1/1975	3/1/1996
Pratt Building Parking Area	ER1	Fiberglass Reinforced Plastic	Heating Oil	10000	4/1/1996	Currently In Use
Emergency Generator	Unknown	Steel	Diesel Fuel	550	Unknown	2/1/2005
Rainbow House	Unknown	Steel	Heating Oil	Unknown	Unknown	Abandoned-in-Place

Table 3-1
SUMMARY OF HISTORIC INFORMATION - AERIAL PHOTOGRAPHS
240 Oral School Road, Mystic, Connecticut

Loureiro
Engineering • Construction • EH&S • Energy • Waste

Date	Building(s)	Other Relevant Site Features	Surrounding Areas
1934	The Site is developed with several buildings. The Girls Wing, Rainbow House, and Rainbow House Garage are visible in this aerial photograph. The Administration Building and boiler room are two separate buildings and the eastern portion of the Administration Building (Boys Wing) has not been constructed. Five rectangular buildings appear on the northern section of the 0 Oral School Road Parcel and are possibly related to agriculture. On the southern section of the 0 Oral School Road Parcel, there are two small buildings and an outbuilding that appears to be residential. Northwest of the Administration Building, there are several buildings visible in this aerial photograph. These buildings are identified as shops, garages, and livestock buildings in a Site plan dated 1965.	The majority of the Site is cleared of trees, and appears to be either landscaped or used for agriculture. Mystic Oral School Pond appears to be marshland. The wastewater treatment filter beds located on the State-owned parcel southeast of the Site are evident.	The majority of the surrounding area is forested or cleared tracts of land that appear to be agricultural. The wastewater treatment filter beds located on the State-owned parcel southeast of the Site are evident.
1941	The Administration Building has been expanded and connected to the boiler room, and the eastern portion (Boys Wing) of the building has been constructed. Two of the five buildings on the 0 Oral School Road parcel are no longer present. Two of the buildings northeast of the Administration Building no longer exist. All other buildings on the Site appear to remain unchanged.	An area of land north of the Administration Building has changed from an open field to forested land. The shadow of the tall boiler smoke stack is visible in this aerial photograph. The stack was not present in the previous photograph.	The surrounding area appears to remain unchanged since the previous photograph.
1951	There are three small outbuildings located immediately west of the Boys Wing that were not present in the previous aerial photograph. Only one of the rectangular buildings on the 0 Oral School Road parcel remains. All other buildings on the Site appear to remain unchanged.	The area of land north of the Administration Building appears to have filled in with trees. A dirt road is evident in the area of the current-day Recreation Field.	The surrounding area appears to remain unchanged since the previous photograph.
1957	The Site appears to remain unchanged since the previous photograph.	The Mystic Oral School Pond appears to have been created where there was previously marshland. A dirt road is visible off the northwest corner of the pond leading north.	The surrounding area appears to remain unchanged since the previous photograph.

Table 3-1
SUMMARY OF HISTORIC INFORMATION - AERIAL PHOTOGRAPHS
240 Oral School Road, Mystic, Connecticut

Loureiro
Engineering • Construction • EH&S • Energy • Waste

Date	Building(s)	Other Relevant Site Features	Surrounding Areas
1969	Whipple Hall and the Crouter Building have been constructed.	The majority of the 0 Oral School Road parcel has been filled in with trees. An area near the residential buildings on the southern section of this parcel is cleared. A baseball field has been constructed in the area north of the Administration Building.	A residential development has been constructed west of the Site. Interstate Highway 95 has been constructed south of the Site.
1970	The Site appears to remain unchanged since the previous photograph.	The Site appears to remain unchanged since the previous photograph.	The surrounding area appears to remain unchanged since the previous photograph.
1974	The Durant Building has been constructed south of the Whipple Building. The buildings formerly located northwest of the Administration Building are no longer visible. The area that was occupied by the buildings is now a paved parking lot.	The Site appears to remain unchanged since the previous photograph.	The area surrounding the sewage treatment plant east of the Site has begun to fill in with trees.
1980	The Pratt Building has been constructed on the eastern portion of the Site. The small buildings that formerly occupied the eastern portion of the Site are no longer present.	The Site appears to remain unchanged since the previous photograph.	The surrounding area appears to remain unchanged since the previous photograph.
1986	The Site buildings appear to remain unchanged since the previous aerial photograph.	A paved parking area has been constructed on the 0 Oral School Road Parcel, north of the residential building. A second paved parking area has been constructed surrounding the Maintenance Garage.	The surrounding area appears to remain unchanged since the previous photograph.
1990	The Site buildings appear to remain unchanged since the previous aerial photograph.	The clearing north of the Pratt Building driveway is well defined. This is the location of the existing waste disposal area.	The surrounding area appears to remain unchanged since the previous photograph.
1991/ 1992 Composite	The Site buildings appear to remain unchanged since the previous aerial photograph.	A parking lot has been constructed in the area southeast of the Mystic Oral School Pond.	The surrounding area appears to remain unchanged since the previous photograph.

Table 3-1
SUMMARY OF HISTORIC INFORMATION - AERIAL PHOTOGRAPHS
240 Oral School Road, Mystic, Connecticut

Loureiro
Engineering • Construction • EH&S • Energy • Waste

Date	Building(s)	Other Relevant Site Features	Surrounding Areas
1996	The Site buildings appear to remain unchanged since the previous aerial photograph.	The emergency diesel generator is visible in this aerial photo in its present day location. There appears to be debris piled in the location of the existing landfill.	The surrounding area appears to remain unchanged since the previous photograph.
2005	The Site buildings appear to remain unchanged since the previous aerial photograph.	The Site appears to remain unchanged since the previous photograph.	The surrounding area appears to remain unchanged since the previous photograph.
2006	In the southern area of the 0 Oral School Road parcel, there are three rectangular structures located south and west of the residential building.	The Site appears to remain unchanged since the previous photograph.	The surrounding area appears to remain unchanged since the previous photograph.
2008	The Site buildings appear to remain unchanged since the previous aerial photograph.	The Site appears to remain unchanged since the previous photograph.	The surrounding area appears to remain unchanged since the previous photograph.

Table 3-2
SUMMARY OF HISTORIC INFORMATION - TOPOGRAPHIC MAPS
240 Oral School Road, Mystic, Connecticut

Date	Source	Building(s)	Other Relevant Site Features	Surrounding Areas
1892	Topographic Map Stonington, Connecticut, Quadrangle: EDR	No buildings are shown within the Site boundary.	Site elevation is not indicated on the topographic map.	A few small buildings are depicted east of the Site along the Mystic River.
1913	Topographic Map Stonington, Connecticut, Quadrangle: EDR	No buildings are shown within the Site boundary.	No changes since previous topographic map.	No changes since previous topographic map.
1943	Topographic Map Old Mystic, Connecticut, Quadrangle: EDR	Mystic Oral School is shown on the topographic map.	Site elevation is approximately 160 feet above mean sea level.	No changes since previous topographic map.
1948	Topographic Map Old Mystic, Connecticut, Quadrangle: EDR	No changes since previous topographic map.	No changes since previous topographic map.	No changes since previous topographic map.
1958	Topographic Map Old Mystic, Connecticut, Quadrangle: EDR	No changes since previous topographic map.	No changes since previous topographic map.	No changes since previous topographic map.
1970	Topographic Map Old Mystic, Connecticut, Quadrangle: EDR	No changes since previous topographic map.	No changes since previous topographic map.	A housing development is located west of the Site. Properties have been developed on the eastern bank of the Mystic River. Interstate Highway 95 is shown adjacent to the Site.
1983/1984	Topographic Map Old Mystic, Connecticut, Quadrangle: EDR	The Durant, Pratt and Crouter Buildings are shown on the topographic map.	The Mystic Oral School Pond is shown as a surface water feature in the topographic map.	The filter beds on the State-owned property to the southeast are identified as Sewage Disposal.

Notes:
EDR = Environmental Data Resources, Inc.

Table 3-3
SUMMARY OF PREVIOUS ENVIRONMENTAL REPORTS
240 Oral School Road, Mystic Connecticut

Report Title	Prepared By	Date	Description of Report
Environmental Reports			
Tank Removal Report	Metcalf & Eddy	8/31/1993	Four underground storage tanks located near the Administration Building were removed from the Site.
Tank Removal Report	Fuss & O'Neil	5/31/1996	The 10,000 gallon underground storage tank located in the parking area of the Pratt building was removed from the Site.
Incident Completion Report Case # 2003-03753	Response Environmental Inc.	10/22/2003	Documents the remedial actions taken following a release of approximately 40 gallons of #2 heating oil to the ground surface near the 10,000 gallon USTs installed adjacent to the Administration Building.
Subsurface Investigation	Aaron Environmental LLC	7/20/2005	Documents the remedial actions taken following a release of approximately 200 gallons of diesel fuel to the ground surface near the emergency generator.
Evaluation of Existing PCB Transformers at the Mystic Educational Center	Fuss & O'Neil	12/18/1990	Nine transformers were tested for PCB content. One transformer contained PCBs at a concentration higher than 500 parts per million (ppm).
Hazardous Building Material Reports			
Executive Summary Directed and Limited Site Review - Hallway to be Renovated	Mystic Air Quality Consultants	2/21/2001	Documents asbestos containing materials and lead in paint in a section of the Administration Building.
Draft Asbestos Inspection Mystic Education Center Crouter Building (DPW Building No. 16948)	Delta Environmental Services	3/1/2001	Asbestos Investigation of the Crouter Building.

Table 3-3
SUMMARY OF PREVIOUS ENVIRONMENTAL REPORTS
240 Oral School Road, Mystic Connecticut

Report Title	Prepared By	Date	Description of Report
Draft Asbestos Inspection Mystic Education Center Girls' Building (DPW Building No. 16946)	Delta Environmental Services	3/1/2001	Asbestos Investigation of the Girls Wing.
Draft Asbestos Inspection Mystic Education Center Pratt Building (DPW Building No. 16943)	Delta Environmental Services	3/1/2001	Asbestos Investigation of the Pratt Building.
Draft Asbestos Inspection Mystic Education Center Rainbow House (DPW Building No. 16951)	Delta Environmental Services	3/1/2001	Asbestos Investigation of the Rainbow House.
Draft Asbestos Inspection Mystic Education Center Whipple Building (DPW Building No. 16947)	Delta Environmental Services	3/1/2001	Asbestos Investigation of the Whipple Building.
Asbestos Operation and Maintenance Plan	Delta Environmental Services	3/1/2001	A plan to ensure safety of employees and to minimize exposure of building occupants to airborne asbestos fibers.
Lead Paint Inspections Mystic Educational Center	Delta Environmental Services	3/1/2001	Documents lead-based paint inspections for The Pratt Building, Administration Building, Girls Wing, Whipple Building, Crouter Building, Rainbow House, and Durant Building.
Laboratory Analysis Lead-in-Paint Sampling	Mystic Air Quality Consultants	1/23/2006	Documents paint samples collected from the Boys Wing fire escapes.

Table 3-3
SUMMARY OF PREVIOUS ENVIRONMENTAL REPORTS
240 Oral School Road, Mystic Connecticut

Report Title	Prepared By	Date	Description of Report
Laboratory Analysis Lead-in-Paint Sampling	Mystic Air Quality Consultants	2/14/2006	Documents paint samples collected from the Boys Wing exterior windows.
Compliance Report for the Abatement of Asbestos Containing Materials Mystic Education Center Administration/Girls Building	TRC	1/5/2009	Abatement of approximately 945 square feet of asbestos containing floor tile and mastic in the stairwells of the Administration Building.
Limited and Directed Asbestos Sampling	Mystic Air Quality Consultants	3/5/2009	A limited survey of accessible materials in the Boys Wing.
Pre-Renovation Investigative Survey for Asbestos-Containing Materials, Mystic Oral School Pratt Building	TRC	7/27/2010	Inspection of suspected asbestos containing materials in the Pratt Building.

Table 4-1
SUMMARY OF OIL AND CHEMICAL SPILLS
240 Oral School Road, Mystic Connecticut

Loureiro
Engineering • Construction • EH&S • Energy • Waste

Location of Spill	Date of Spill	Material Spilled	Approximate Volume (gal)	Corrective Actions
Former 10,000 gallon Heating Oil UST near Administration Building	10/15/1976	#4 Heating Oil	3	Area covered with sawdust and sand. Sand removed and re-sanded.
Unknown Location	7/11/1997	Motor Oil	2	None listed in spill report.
Unknown Location	9/2/1998	#2 Heating Oil	4	Spill report indicates that the spill was removed and contained.
Concrete Pad of two 10,000 gallon USTs near Administration Building	1/4/2002	#2 Heating Oil	30	Absorbent material applied to spill.
Concrete Pad of two 10,000 gallon USTs near Administration Building	5/20/2003	#2 Heating Oil	40	Absorbent material was applied to contain spill. Impacted soil was excavated, and confirmatory samples taken. Confirmatory samples were above criteria, however excavation could not continue into pea-stone fill. SVE system was installed to remediate the remaining impacted soil.
Boiler Room in Basement of Administration Building	10/18/2004	#2 Heating Oil	300	Vacuum truck used to remove oil from concrete floor and sump. Absorbent booms and pads used to collect residual oil from sump.
Diesel Generator	2/26/2005	Diesel Fuel	200	Absorbent material was applied to contain spill on the day of the spill; contaminated absorbent, visible oil and contaminated soil were containerized. In May 2004, 38 tons of contaminated soil were excavated and disposed off-site. Confirmatory samples were collected.
Unknown Location	5/22/2012	#2 Heating Oil	2	Spill report indicates that the spill was contained and cleaned-up.

Table 4-2
SUMMARY OF WASTE SHIPMENTS
240 Oral School Road, Mystic Connecticut

Loureiro
Engineering • Construction • EH&S • Energy • Waste

Description of Waste	Date Shipped	Weight / Volume	Units	EPA Hazardous or CT Regulated Waste Code	Manifest Number	Manifest Attached
Hazardous Substance, Solid, N.O.S. (Polychlorinated Biphenyls 630 ppm)	4/9/1991	3	Kilograms	CR01	NHF0001569	No
Hazardous Waste, Solid, N.O.S.	6/20/1991	15	Cubic Yards	D009	CTF0080840	Yes
Hazardous Substance, Liquid, N.O.S. (Polychlorinated Biphenyls)	6/30/1992	543	Kilograms	CR01	CTB0008094	Yes
Hazardous Substance, Liquid, N.O.S. (Polychlorinated Biphenyls)	2/24/1993	452	Kilograms	CR01	CTB0096308	Yes
RQ, Waste Paint Regulated Material (xylene)	5/7/2002	120	Gallons	D001 / U239	CTF1033607	Yes
State Regulated Waste	5/7/2002	875	Pounds	CR05	CTF1033607	Yes
State Regulated Waste	5/7/2002	2000	Pounds	CR05	CTF1033607	Yes
State Regulated Waste	5/7/2002	85	Gallons	CR02	CTF1033607	Yes
Corrosive Liquid, Basic Inorganic, N.O.S	6/7/2005	180	Gallons	D002	CTF1066581	Yes
Hazardous Waste, Solid, N.O.S.	6/7/2005	2250	Pounds	D008	CTF1066581	Yes
Hazardous Waste, Solid, N.O.S.	6/7/2005	1200	Pounds	D008	CTF1066581	Yes
Hazardous Waste, Liquid N.O.S.	6/7/2005	110	Gallons	D008	CTF1066581	Yes
Flammible Liquids, N.O.S.	6/7/2005	750	Pounds	D001	CTF1066583	Yes
Hypochlorites, Inorganic	6/7/2005	30	Pounds	D001	CTF1066583	Yes
Non Regulated Material	6/7/2005	250	Pounds	CR04	CTF1066583	Yes

Table 6-1
PRELIMINARY CONCEPTUAL SITE MODEL
Former Mystic Oral School for the Deaf, Groton, Connecticut

Area of Concern	Description & Background	Potential Contaminant Sources and Migration Pathways	Constituents of Concern
AOC 1 Recreation Field	This area of the Site was used historically to grow crops. Several small buildings associated with farming activities were formerly located within this AOC. This area of the Site has also been used as a baseball diamond and a football field. Fill material has reportedly been placed in the area of this field to maintain its playing condition.	Pesticides and herbicides may have been historically applied to the ground in this area of the Site. Constituents that comprise the pesticides and herbicides may have resulted in contamination of surface soils and may have migrated to the deeper soils and groundwater. In addition, any constituents that may have been present in contaminated fill placed in this area of the Site may have leached from the fill due to infiltrating precipitation and may have migrated to deeper soils and possibly groundwater.	VOCs, PAHs, ETPH, Metals, Pesticides, Herbicides,
AOC 2 Fire Department Training Area and Area of Fill	The 0 Oral School Road parcel located on the western portion of the Site is the former location of the Cook's House. This parcel is currently used as a fire fighting training center. The former Cook's House was destroyed in a fire during fire fighting training exercises. Fill material has been placed within this AOC, generally in the vicinity of the paved parking lot.	Hazardous substances and/or petroleum products may have been released to the ground as a result of fire fighting training exercises. Constituents could initially impact and penetrate the surface soil or asphalt pavement and/or migrate toward cracks in the pavement or areas surrounding the pavement. The constituents could possibly migrate to the underlying soil and groundwater. In addition, any constituents that may have been present in contaminated fill placed in this area of the Site may have leached from the fill due to infiltrating precipitation or water generated during fire fighting exercises, and may have migrated to deeper soils and possibly groundwater.	VOCs, PAHs, ETPH, PCBs, Metals
AOC 3 Solid Waste Disposal Area	The area located north of the entrance to the Pratt Building has been used as a disposal area for scrap metal, wood, asphalt, bricks, and other solid waste.	The bulky waste does not pose a direct risk to human health, however constituents of concern could leach from the waste materials and could infiltrate soil and possibly migrate to groundwater.	VOCs, PAHs, ETPH, PCBs, Metals, Pesticides
AOC 4 Former Oiled Gravel Driveway	This driveway located north of the Girls Wing was formerly identified as an "Existing Oiled Gravel Driveway." Used oil would have been applied to the gravel driveway to control dust.	Constituents within used oil applied to the driveway could have penetrated the surrounding and underlying soil and possibly migrated to deeper soils and groundwater.	PAHs, ETPH, PCBs, Metals
AOC 5 Former and Existing Underground Storage Tanks	A number of USTs have been used at the Site to store heating oil. One heating oil UST has been abandoned-in place and four other heating oil USTs have been removed from the Site. In addition, one UST formerly used to store gasoline was removed from the Site. A diesel fuel UST associated with the Emergency Generator was also removed from the Site. Existing heating oil USTs at the Site include three 10,000-gallon USTs. Releases of petroleum hydrocarbons associated with USTs at the Site have previously been reported. While the laboratory analytical data for samples collected following response actions taken to address these releases indicate that the impacts have been cleaned-up, there may have been other UST releases that have not been addressed.	Constituents in heating oil have spilled to the ground surface during filling operations. Releases could result from overfilling, and/or leaks in the tanks and appurtenant piping. Substances that may have been released at the ground surface could initially impact and penetrate the surface soil or asphalt pavement and/or migrate toward cracks in the pavement or areas surrounding the pavement. Constituents could then migrate to the underlying soil and possibly to groundwater. Substances that may have been released below the ground surface could migrate through the soil and could potentially impact groundwater.	VOCs, PAHs, ETPH
AOC 6 Aboveground Storage Tanks	There are two existing 275-gallon heating oil ASTs maintained at the Site. One AST is located in the basement of the Rainbow House, and the other is located in the Maintenance Garage. The concrete floors beneath each tank were observed to be stained with oil.	Releases of petroleum products may have occurred during transfer and storage. Releases during filling could result from overflows at the exterior fill ports and tank vents. Releases during storage could result from leaks in the tanks and appurtenant piping. Releases of petroleum products within the buildings could have resulted in substances penetrating the concrete slab, and/or migrating through cracks or joints in the slab. These substances could then migrate to the underlying soil and possibly to groundwater.	VOCs, PAHs, ETPH

Table 6-1
PRELIMINARY CONCEPTUAL SITE MODEL
Former Mystic Oral School for the Deaf, Groton, Connecticut

Area of Concern	Description & Background	Potential Contaminant Sources and Migration Pathways	Constituents of Concern
AOC 7 Perimeter of Existing Buildings	Given the age of the Site buildings and apparent extended use of pesticides and herbicides to control pests and weeds, the possibility of contamination in the shallow soils exists as a result of the application of these substances. Pesticides and herbicides would have typically been applied to the ground surface along the perimeter of buildings. Also, given the age of the site buildings it is possible that lead-based paint was applied to the exterior of the buildings. Any lead-based paint that leached from weathered window frames or other exterior wood building components, or that peeled from exterior concrete block, may have resulted in the release of lead to shallow soil. Evidence that paint had leached from the window frames was visually observed during the Phase I ESA activities	Constituents in pesticides and herbicides may have migrated through surface soils to deeper soils and possibly to groundwater where they were applied. In addition, any lead-based paint applied to wooden window frames may have impacted surface soils and leached from these soils due to infiltrating precipitation thereby affecting deeper soils and possibly groundwater.	Pesticides, Herbicides, Lead
AOC 8 Transformers	Three exterior, wet-type electrical transformers are situated upon concrete pads. Dielectric fluids within the transformers may contain PCBs, or at one time may have contained PCBs. No stains were observed on the concrete pads.	Dielectric fluid contained within the transformers may have leaked onto the concrete pads. The fluid could have migrated toward cracks in the concrete or toward areas surrounding the pads. The fluids could then migrate to the underlying soil and possibly to groundwater.	ETPH, PCBs
AOC 9 Crouter Building	This building was used for classroom space, a carpentry shop, a paint room/spray paint booth, an internal combustion engine laboratory, and a gymnasium. The building is currently used to store equipment and materials including empty containers of hydrochloric acid. Areas of the floor within the internal combustion engine laboratory were observed to be stained.	Hazardous substances and petroleum products may have spilled to the concrete floor of the building and may have migrated through the floor or through cracks in the floor, thereby impacting underlying soils.	VOCs, PAHs, ETPH, Metals
AOC 10 Administration and Girls Wing Boiler Rooms	The boilers within the Administration Building and the basement of the Girls Wing are used to provide steam and hot water. The boilers are fueled using No. 4 heating oil, but had previously been fueled using No. 6 heating oil and pre-heaters. Originally, the boiler within the Girls Wing was fueled using coal. A coal chute was located along the Boiler Room east wall. A release of heating oil was reported to have occurred within the Boiler Room of the Administration Building. The release resulted in the migration of heating oil across the floor into the Boiler Room sump. In addition, boiler blow down water that is discharged on a daily basis to the sump was historically discharged through the concrete floor of this room.	Releases of hazardous substances or petroleum products could have resulted from the daily discharge of boiler blow down water. Releases of petroleum products within the building could have resulted in substances traveling through the existing sump and/or penetrating the concrete slab, and/or migrating through the cracks or joints in the slab. These substances could then migrate to the underlying soil and possibly to groundwater.	VOCs, PAHs, ETPH, Metals
AOC 11 Administration Building Storage Rooms and Photography Lab	The storage rooms within the Administration Building include the Janitor Room, which was observed to contain a number of chemical cleaning products. The floor of this room was observed to be stained. The photography lab located on the ground floor of the Boys Wing was observed to be constructed of cinder block. The floor within this laboratory appeared to be in relatively good condition. No staining was observed. A drain located within this room was reported to be connected to the on-site wastewater discharge system.	Hazardous substances spilled to the floor of the building may have migrated through the floor drain piping or concrete slab and/or may have migrated through cracks or joints in the slab. These substances could then migrate to the underlying soil and possibly to groundwater.	VOCs, PAHs, ETPH, Metals, Cyanide

Table 6-1
PRELIMINARY CONCEPTUAL SITE MODEL
Former Mystic Oral School for the Deaf, Groton, Connecticut

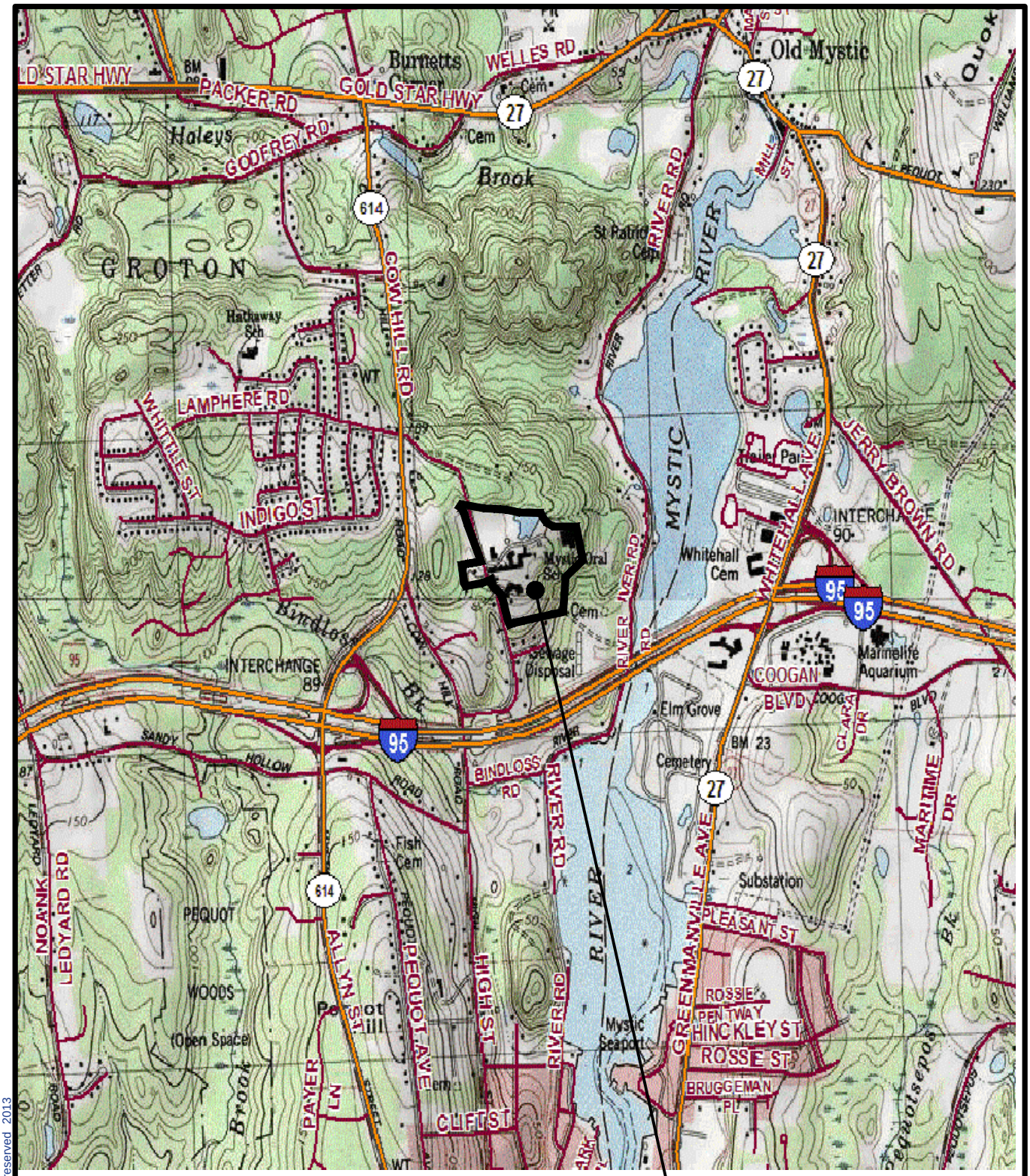
Area of Concern	Description & Background	Potential Contaminant Sources and Migration Pathways	Constituents of Concern
AOC 12 Hydraulic Elevators	Two hydraulically-powered elevators exist within the Administration Building: a passenger elevator is located within the central part of the Administration Building, and a freight elevator is located adjacent to the loading dock within this building and was formerly used to deliver goods to the kitchen located on the second floor. In addition, one pulley-operated elevator is located within the Boiler Room of the Administration building. The concrete floor was stained near the hydraulic reservoir of the freight elevator located adjacent to the loading dock of the Administration building.	Releases of petroleum products and/or hazardous substances could have resulted from past use of the elevators. Stains on the concrete floor adjacent to the hydraulic reservoir is evidence that hydraulic oil may have been resulted in impacts to underlying soil. Hydraulic oil released to the floor may have penetrated the floor and/or may have migrated through cracks or joints in the concrete slab floor and may have affected the underlying soil.	VOCs, PAHs, ETPH, PCBs, Metals
AOC 13 Emergency Generator	An Emergency Generator is located in the parking area north of the Administration Building. This generator provides back-up power to the Administration Building. The reported release of approximately 150 to 200 gallons of diesel oil to the ground in the area of the Emergency Generator may have impacted subsurface soil. In addition, there may have been other releases of diesel oil from the UST formerly located in this AOC.	Diesel oil may have been released directly to the soil from a leak in the UST or subsurface piping. Oil released to the ground may have migrated through shallow soil and impacted subsurface soils.	VOCs, PAHs, Metals, ETPH
AOC 14 Maintenance Garage / Storage Areas	A heating oil furnace and associated 275-gallon heating oil AST is located along the southern wall of the Maintenance Garage. Gasoline is stored in this building. The garage is used to perform routine maintenance on power and other equipment. Several containers of liquid waste are stored in the Wood Shed. Waste oils and waste gasoline were observed to be stored on a containment pallet in this shed. Also, the concrete floor of this shed was observed to be heavily stained with oil.	Releases of petroleum products may have occurred during transfer and storage. Releases during filling could result from overflows at the exterior fill ports and tank vents. Releases during storage could result from leaks in the tanks and appurtenant piping. Releases of petroleum products within the building could have resulted in substances penetrating the concrete slab, and/or migrating through cracks or joints in the slab. These substances could then migrate to the underlying soil and possibly to groundwater. If the paint contained metals or PCBs, then flakes of paint could have accumulated on and impacted the ground surface beneath the garage.	VOCs, PAHs, ETPH, PCBs, Metals
AOC 15 Pratt Building Mechanical Rooms	The Pratt Building Mechanical Rooms include the boiler room and the pool chemical supply room. The floor of the boiler room was observed to be stained in several areas. The pool chemical supply room was formerly used to add chlorine to circulated pool water and to back-flush the pool water. The floor of this room was also observed to be stained. The staining that was observed is typical for the mechanical functions served by these rooms.	Releases of hazardous substances or petroleum products could initially impact and penetrate the floor, and/or migrate toward joints and/or cracks in the floor. These substances could subsequently migrate to underlying soil and groundwater.	VOCs, PAHs, ETPH, Metals
AOC 16 Former Rubbish Burner / Shop / Garage	The Former Rubbish Burner, Shop, and Garage were located north of the driveway/parking area that is north of the Administration Building.	Hazardous substances or petroleum products may have been released during historic use of the former Rubbish Burner, Shop, and Garage. Substances released at the ground surface could initially impact and penetrate the surface soil or asphalt pavement and/or migrate toward cracks in the pavement or areas surrounding the pavement. Substances could then migrate to subsurface soil and possibly to groundwater. If the Rubbish Burner was an in-ground rubbish burner, then substances could have been released directly to subsurface soil.	VOCs, PAHs, ETPH, PCBs, Metals, PCBs, Pesticides, Herbicides

Table 6-1
PRELIMINARY CONCEPTUAL SITE MODEL
Former Mystic Oral School for the Deaf, Groton, Connecticut

Area of Concern	Description & Background	Potential Contaminant Sources and Migration Pathways	Constituents of Concern
AOC 17 Loading Docks	The loading docks at the Site were used to receive goods and materials, including small quantities of chemicals, delivered to the Administration Building and the Durant Building. Loading docks are considered AOCs because they are likely areas for the handling of raw materials, chemical products, and wastes. Any product used within the facility is a constituent of concern at a loading dock. The loading docks did not appear to be stained.	Releases of hazardous substances or petroleum products could initially impact and penetrate the concrete docks or adjacent asphalt pavement and/or migrate toward cracks in the concrete or pavement or toward areas surrounding the pavement. These substances could then migrate to the underlying soil and possibly to groundwater.	VOCs, PAHs, ETPH, Metals

Abbreviations
AOC: Area of Concern
AST: Aboveground Storage Tank
ETPH: Extractable Total Petroleum Hydrocarbons
MW: Monitoring Well
PAHs: Polynuclear Aromatic Hydrocarbons
PCBs: Polychlorinated Biphenyls
SB: Soil Boring
UST: Underground Storage Tank
VOCs: Volatile Organic Compounds

FIGURES



SITE LOCATION

1000 0 1000 2000 3000

APPROXIMATE SCALE IN FEET

MAP REFERENCE:

SECTION OF THE USGS 7.5 MINUTE SERIES TOPOGRAPHIC MAP FOR OLD MYSTIC & MYSTIC, CT, DATED 1983, 1984 & PHOTOREVISED 1989 & 1996. MAP CREATED WITH TOPO! © 2008 NATIONAL GEOGRAPHIC & © 2007 TELE ATLAS, NORTH AMERICA, INC., RELEASE 01/2007.

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Phase I Environmental Site Assessment Report
Former Mystic Oral School

SITE LOCATION MAP

Comm.No.	FIGURE 2-1	Loureiro
18HM3.01		

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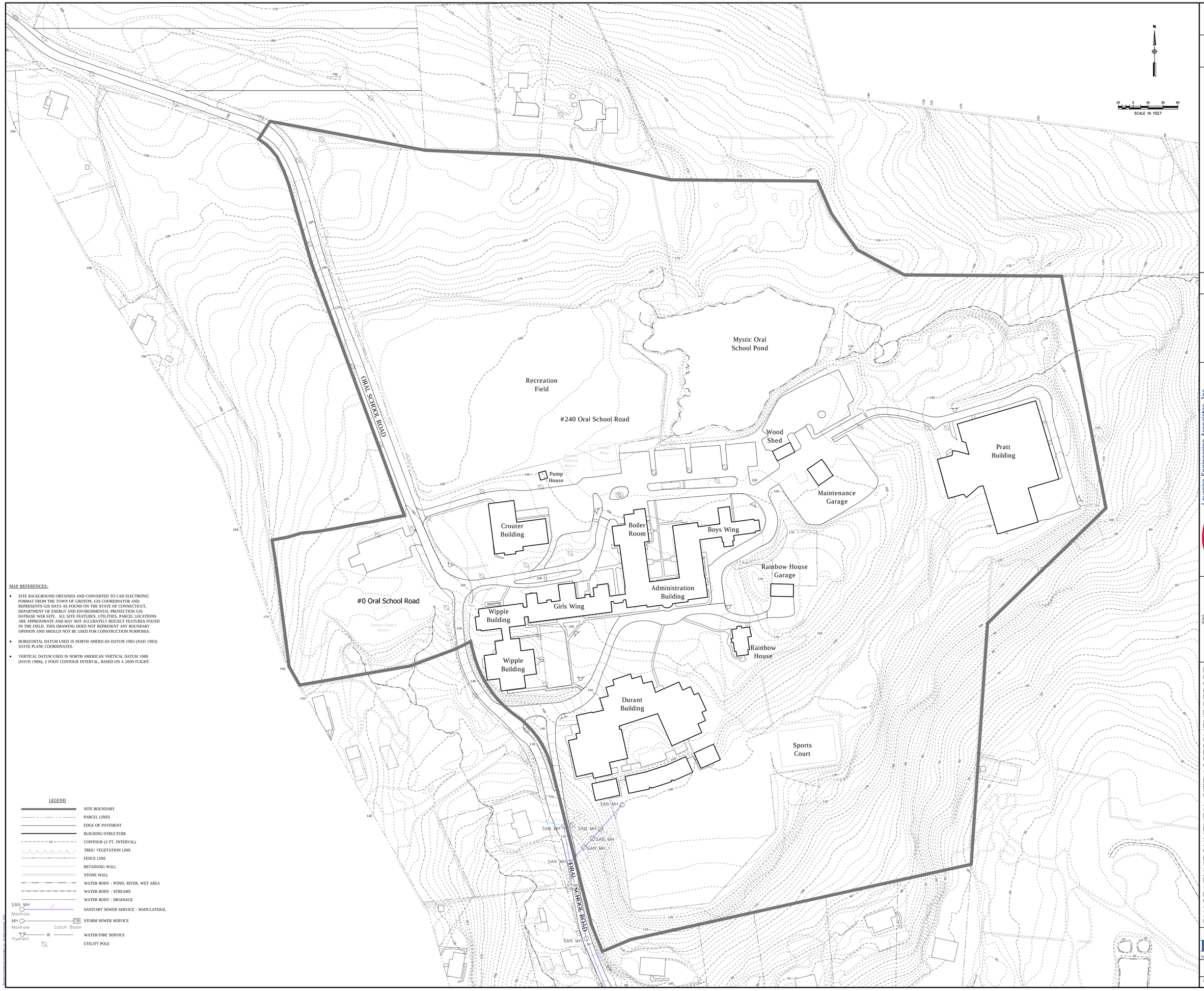
DRAWINGS



MAP REFERENCES:

- SITE BACKGROUND OBTAINED AND CONVERTED TO CAD ELECTRONIC FORMAT FROM THE TOWN OF GROTON, GIS COORDINATOR AND REPRESENTS GIS DATA AS FOUND ON THE STATE OF CONNECTICUT, DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION GIS DATBASE WEB SITE. ALL SITE FEATURES, UTILITIES, PARCEL LOCATIONS ARE APPROXIMATE AND MAY NOT ACCURATELY REFLECT FEATURES FOUND IN THE FIELD. THIS DRAWING DOES NOT REPRESENT ANY BOUNDARY OPINION AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.
- HORIZONTAL DATUM USED IS NORTH AMERICAN DATUM 1983 (NAD 1983) STATE PLANE COORDINATES.
- VERTICAL DATUM USED IS NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988), 2 FOOT CONTOUR INTERVAL, BASED ON A 2009 FLIGHT.

LEGEND

- SITE BOUNDARY
- PARCEL LINES
- EDGE OF PAVEMENT
- BUILDING/STRUCTURE
- CONTOUR (2 FT. INTERVAL)
- TREE/ VEGETATION LINE
- FENCE LINE
- RETAINING WALL
- STONE WALL
- WATER BODY - POND, RIVER, WET AREA
- WATER BODY - STREAMS
- WATER BODY - DRAINAGE
- SAN_MH Manhole — SANITARY SEWER SERVICE - MAIN/LATERAL
- MH Manhole — CB Catch Basin — STORM SEWER SERVICE
- Hydrant — W — WATER/FIRE SERVICE
- UTILITY POLE

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REV.	DESCRIPTION OF REVISION	DATE	APPR.

Loureiro Engineering Associates, Inc.
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An Employee Owned Company • www.Loureiro.com
Loureiro Engineering • Construction • EH&S • Energy • Waste

SCALE	COMM. NO.	DRAWN BY	APPROVED BY
1" = 60'	18HM301	G.F.B.	D.N.S.
	DATE 04/23/2013	DATE 04/23/2013	

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT
FORMER MYSTIC ORAL SCHOOL

SITE PLAN

Loureiro
Engineering • Construction • EH&S • Energy • Waste

DRAWING
2-1

SHEET NO. 1 NO. OF SHEETS 1

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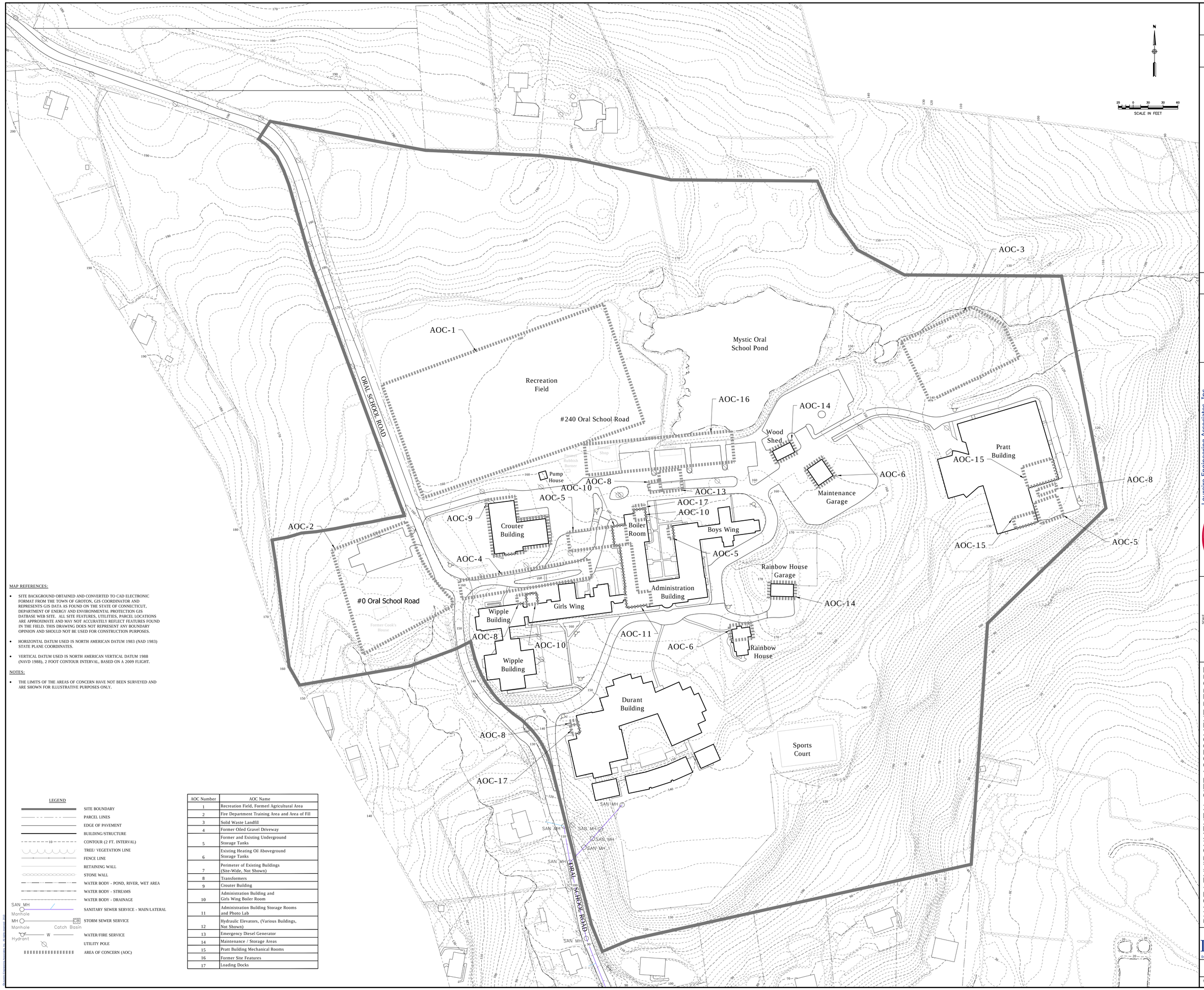

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- VERTICAL DATUM USED IS NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 1988), 2 FOOT CONTOUR INTERVAL, BASED ON A 2009 FLIGHT.

NOTES:

- THE LIMITS OF THE AREAS OF CONCERN HAVE NOT BEEN SURVEYED AND ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.

LEGEND

- SITE BOUNDARY
- PARCEL LINES
- EDGE OF PAVEMENT
- BUILDING/STRUCTURE
- CONTOUR (2 FT. INTERVAL)
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- FENCE LINE
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- MH Manhole, CB Catch Basin — STORM SEWER SERVICE
- Hydrant, W — WATER/FIRE SERVICE
- UTILITY POLE
- AREA OF CONCERN (AOC)

AOC Number	AOC Name
1	Recreation Field, Formerl Agricultural Area
2	Fire Department Training Area and Area of Fill
3	Solid Waste Landfill
4	Former Oiled Gravel Driveway
5	Former and Existing Underground Storage Tanks
6	Existing Heating Oil Aboveground Storage Tanks
7	Perimeter of Existing Buildings (Site-Wide, Not Shown)
8	Transformers
9	Crouter Building
10	Administration Building and Girls Wing Boiler Room
11	Administration Building Storage Rooms and Photo Lab
12	Hydraulic Elevators, (Various Buildings, Not Shown)
13	Emergency Diesel Generator
14	Maintenance / Storage Areas
15	Pratt Building Mechanical Rooms
16	Former Site Features
17	Loading Docks

REV.	DESCRIPTION OF REVISION	DATE	APPR.

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SCALE	1" = 60'
COMM. NO.	18HM301
DATE	04/23/2013
DRAWN BY	G.F.B.
DATE	04/23/2013
APPROVED BY	D.N.S.

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT
FORMER MYSTIC ORAL SCHOOL

AREAS OF CONCERN

Loureiro
Engineering • Construction • EH&S • Energy • Waste

DRAWING 6-1

SHEET NO. 1 NO. OF SHEETS 1

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APPENDIX A

Phase I ESA User Questionnaire

INTRODUCTION

Commission Number: 91 HM301.001
Client Name: State of Connecticut Dept. of Economic & Community Devel.
Site Name: Former Mystic Oral School for the DEAF
Site Address: 240 Oral School Road, Groton, Connecticut

GENERAL INSPECTION INFORMATION

Date of Inspection: January 17, 24, 2013
Inspector: D. Scotti & M. Quaranta
Site Contact Information
Contact Name: Harold Monroe, Jr. → Hired as General Trade Worker --> Bldg Super. in 93/94
Contact Title: Building Superintendent (Employed @ site since 1985)
Contact Telephone Number: 860 912 5893
Contact Site Responsibilities: Oversight of former school campus and buildings

AVAILABLE SITE DOCUMENTATION & MAPPING

Site Plan: See Map & Drawing Room
Manifests: On File
Permits: On File @ office of Jacquelyn S. Brown in Hartford

SITE LOCATION & DESCRIPTION:

Acreage: ~40 acres (240 Oral School Rd); ~8 acres (0 Oral Sch Rd)
Development Characteristics:
Undeveloped Portions: Educational Campus - (See Rwcs) → Farm House Burned - F.D. Training
Parking/Traffic Areas:

Buildings	1	2	3	4
Size	240,000	SF (TOTAL)		
Construction Date	See	Attached		
Stories		Table		
Basement				
Operations				
Heating				

SITE HISTORY

Prior Site Use(s): Farmland, apple orchard, sheep bins; self sufficient
Occupied By: School for the DEAF (Closed in 1984)
Dates of Occupation: 1869-1984 - School; 1984-2009 State DMR; Rainbow House → Girls group home.
Historical Operations: Educational Facility / Farming / Bowling Alley
Former Building(s) & Uses: Administration / GYM / Natatorium / Shops / Recreational Field / Fire Dept. - 20 yr lease (0 Oral School Rd) — Carpenter Shop, Machine Shop, Paint Shop
Historical Site Assessments: None / 2-3 Parking lot spills from filling USTs
Historical Soil/Groundwater/Air/Vapor Sampling: See Various Reports on File @ Site
Historical Remediation: See Various Reports on File @ Site
Soil or Groundwater Monitoring: None

UTILITIES

Bags Wing } VERIZON / SPRINT
Smoke stack } CELL TOWER
} SITES

Water Supply:
- Industrial/Potable Water Supply Well(s): Town of Groton — Former Commercial Rock Quarry
- Dates of Use: Unknown - Current
- Depth of Well(s): 2 Former Wells (for Fire line) next to Fire Pond (former quarry)
- Water Quality Data: Not Available

- Municipal Water Supply: Town of Groton
- Date of Connection: Unknown

Sanitary Waste Disposal:
- Existing or Former Septic System, Cesspool, Leachfields: Former leachfield on property south/southeast of site, Now Maintained by NEEP - 4 Septic beds
- Dates of Use: Unknown
- Location(s): South-southeast of Site
- Design Drawings: NA (Not Available)
- Maintenance Records (removal of waste, inspections): NA
- Frequency of Removals/Inspections: NA
- Receive Industrial Wastewater: No
- Testing Results of Removed Materials: NA

- Municipal Sewer Service: Town of Groton (CURRENT)
- Date of Connection: Unknown
- Receive Industrial Wastewater: No
- Permits: See J. Brown Files in Hartford

- Catchbasins: See site plans for catchbasins (drywells)
- Discharge/Drainage Routes: East, South to follow topography

INTERIOR INSPECTION

- Building Name/Area Designation: See Attached Table
- Areas Inspected: Possible Hg in Wt. Room + Gym Floors
- Areas Not Inspected: Currant Bldg (Excessive Mold)
- Building/Area Use: Admin, dormitories, shops, gym, natatorium, paint shop, carpenter shop, garages
- Raw Materials: Limited - Mainly Heating Oil for USTs
- Chemical Inventory Lists: Fuel Oil No 2 (Formerly Used No. 6) Limited - Mainly Heating Oil for USTs

Material	Monthly/Yearly Usage	Typical Volume Stored	Storage Method

- Products: Heating oil, gasoline, Misc. building material maintenance chemicals & supplies
- Product Storage Location(s): See site Recommendations/Drawings
- Waste Generation:

Solid Waste See documents on file @ site

Materials	Monthly/Yearly Volume	Typical Volume	Storage Method	Disposal Location

Hazardous Waste: SEE Documents On File @ Site

Materials	Monthly/Yearly Volume	Typical Volume	Storage Method	Disposal Location

Medical Waste: Non Available

Materials	Monthly/Yearly Volume	Typical Volume	Storage Method	Disposal Location

Documentation of Disposal Practices/Records: SEE Various documents on file @ Jacquelyn Brown's Office and on file at Site

Floor Drains: Limited - connected to Sanitary Sewer System

Number of Active Floor Drains/Floor Trenches: In Photography Lab of Administration Building

Number of Inactive/Plugged/Capped Floor Drains/Trenches: In boiler rooms of Administration, Rainbow House, and Pratt Buildings

Location of Drains:

Drains Receive?: Not Available

Adjacent/Nearby Chemical/Waste Storage: Wood Shed

Drain Discharge Location: None

Sumps: Boiler room of Girls Wing, Admin Bldg & Rainbow House > Receives Boiler Blowdown ~3' below Floor

Number of Sumps:

Dimensions of Sumps:

Construction Type (lined, unlined, concrete, poly.): Concrete

Cuts/Gaps/Cracks/Expansion Joints in Floors: Various Admin Bldg, Crowder Bldg (Worst Condition)

Locations:

Stains/Odors: Tool Room, Boiler Rooms; Chemical Room (Pratt Bldg) DRILL PRESS AREAS

EXTERIOR INSPECTION [redacted] [redacted] y

access/egress):

North: Parking drive, recreation field, woods, Fire Pond, solid waste disposal area

South: woods

East: 240 Oral School Road property - woods, Mystic River

West: Oral School Road

Topographical High Point: Crowder Bldg / Admin Bldg

Topographical Low Point: Pratt Bldg.

Slopes (artificial, natural) (steep, moderate, minimal)	Generally east + south of site
Bedrock Outcrops:	Along driveway on North side of Administration Bldg
Surface Water On-Site:	Fire Pond
Surface Water Adjacent Properties:	NO
Wetlands:	None mapped
Outdoor Storage:	Sheds, Garages
Materials:	Waste Storage in Wood Shed
Location:	Wood Shed
Containers (type, size, number):	55 Gallon drums on pallets
Container Integrity/Leaks:	stained concrete floor
Staining/Dumping/Stressed Vegetation:	Admin Bldg Boiler Room Spill ~200 gal
Stained Soil:	Installed beams later
Stained Pavement:	
Dates:	
Fill Material Locations:	Solid Waste Disposal Area Across from Pratt
Fill Source:	Pallets, Asphalt, Concrete, Brick,
Fill Date(s):	Misc Scrap Wood, Brush, etc.
Dumping/Disposal:	
Materials:	
Dates:	
Topographic Anomalies:	
Stressed Vegetation:	None observed (snow cover)
Apparent Cause:	

UNDERGROUND STORAGE TANKS

Current Number:

Former Number:

Rainbow House NO 2 F.O

ABANDONED-IN-PLACE < NO / YES

~300?

NO

	2 Tanks	3 Tanks			
Location	Admin Bldg	Admin Bldg	Courtyard	Pratt Bldg	Courtyard Prop (LPG)
Contents	No 2 FO.	No. 2 FO	Gasoline	No. 2 FO.	
Service/Inspection Record			Emerg Gener.		BUTANE LINE TO SCIENCE ROOM OF Admin Bldg.
Active	YES	NO	NO	YES	
Inactive		YES	YES		
Date of Removal					
Volume	10K	10K	500	10K	
Age					
Construction Material					
Leak Detection					
Corrosion Protection					
Double Wall					
Integrity Testing					
Registered					
Inventory Records					
Leaks	SURF. SPILLS	NONE		NONE	

PRATT Bldg — LAST USED in late 90s
WATER TANK - POOL H2O.
Backflush → NOW TO sanitary sys.

Overfills				

ABOVEGROUND STORAGE TANKS

Current Number:
Former Number:

Also, 2 SEWER LIFT STATIONS
· PRATT Bldg.
· DURANT Bldg.

PUMP TO GROTON WWTP

PRIOR WENT TO FILTER BEDS ON DEEP MAINTAINED PROPERTY: 4 FILTER BEDS, 2 HOLDINGS PONDS (SOLIDS), 1 CHLORINE BLDG.

Location	RAINBOW HSE	Maint Garage		
Contents	HEAT OIL	HEAT OIL		
Service/Inspection Record				
Active	YES	YES		
Inactive	NO	NO		
Date of Removal				
Volume	275	275		
Age				
Construction Material				
Leak Detection				
Inventory Records				
Leaks				
Overfills	STAINED FLOOR	STAINED FLOOR		

ABUTTING PROPERTIES

North: Woodlands

South: Residential

East: Woodlands

West: Residential / Woodlands

OTHER:
· BEDROCK OUTCROPS - DYNAMITE FOR DRIVEWAY
· 2 WELLS ~15-20' deep by POND - Abandoned PRE-1965.
· CEMENT STRUCTURE ON PROPERTY BY Parking LOT
· SELF SUST. FARM - CATTLE (BONES by PRATT Bldg), SHEEP (RAINBOW HOUSE GARAGE)
· GIRLS boiler - coal fired / coal chute
· 3/4 Harold's time boilers used NO. 4 F.O. w/ PRE-HEATERS
· BOILER Room Admin Bldg (HEATS Admin / Boys Wing, WHIPPLE, GIRLS, DURANT (NOW VACANT SINCE 2009 CUT-OFF = MOLD), CROWDER (NOW CUT-OFF))
[HCL DRUMS (POOL) STORED] ↳ VACANT SINCE 1985
SMALL ENGINE REPAIR
CARPENTER SHOP
SHOWERS / GYMNASIUM
NEW CARPENTER SHOP IN PRATT Bldg (NO DUST COLLECTOR)
AIR COMPRESSOR STORED
↳ PAINT-ROOM (WATER-BASED MAINLY)
↳ CLEANING SUPPLIES FLOOR STRIPPER
· MAINT. GARAGE / RAINBOW HOUSE / PRATT HAVE OWN BOILERS
· NO Haz. Waste Storage SINCE AT LEAST 1985
· AC - ALLON - CENTRAL AIR
- DURANT - MITSUBISHI UNITS
- PRATT - ROOF UNITS - DO NOT WORK

Table 2-1
SUMMARY OF BUILDING INFORMATION
240 Oral School Road, Mystic Connecticut

Loureiro
Engineering • Construction • EH&S • Energy • Waste

Building Name	Construction Material	Year Constructed	Number of Floors	Building Footprint (square feet)
Administration Building / Boys Wing	Masonry	1938	4	69,658
Girls Wing	Masonry	1938	4	28,711
Whipple Building	Masonry	1968	2	24,458
Crouter Building	Masonry	1958	1	7,588
Rainbow House	Wood	1928	2 (w/ attic and basement)	2,480
Rainbow House Garage	Wood	1928	1	Not Available
Durant Building	Masonry	1973	3	58,233
Maintenance Building	Masonry Brick	1969	1	1,276
Wood Shed	Wood	1930	1	720
Pratt Building	Masonry	1975	2	40,000

APPENDIX B

Photodocumentation

Photodocumentation Log
Administration Building
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/17/2013	Admin Building	Down	Paint Room – Water Clean-Out

Date	Viewpoint	View Direction	Description
1/17/2013	Boiler Room	Interior	Boiler Room Pumps

Photodocumentation Log
Administration Building
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/17/2013	Boiler Room	Interior	Boiler Room – Footprint of Former Boiler

Date	Viewpoint	View Direction	Description
1/17/2013	Boiler Room	Down	Boiler Room – Sump

Photodocumentation Log
Administration Building
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/17/2013	Admin Building	Interior	Hot Water Tank – Stained Floor

Date	Viewpoint	View Direction	Description
1/17/2013	Admin Building	Down	Hydraulic Oil Reservoir for Kitchen Elevator

Photodocumentation Log
Administration Building
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/17/2013	Admin Building	Down	Work Shop – Metal Cutting Machine

Date	Viewpoint	View Direction	Description
1/17/2013	Admin Building	Interior	Work Shop – Tool Room – Oil Stain

Photodocumentation Log
Administration Building
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/24/2013	Interior	-	Battery Storage

Date	Viewpoint	View Direction	Description
1/24/2013	Interior	Down	Electric Room (Storage Room)

Photodocumentation Log
Administration Building
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/24/2013	Interior	-	Electric Alternative Power

Date	Viewpoint	View Direction	Description
1/24/2013	Interior	Down	Former Gas Generator Room

Photodocumentation Log
Administration Building
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/24/2013	Interior	-	Janitor Closet

Date	Viewpoint	View Direction	Description
1/24/2013	Interior	-	Janitor Closet Supplies

Photodocumentation Log
Administration Building
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/24/2013	Interior	Down	Janitor Closet – Pipe Trace

Date	Viewpoint	View Direction	Description
1/24/2013	Interior	Down	Janitor Closet – Stained Floor

Photodocumentation Log
Administration Building
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/24/2013	Driveway	South	Loading Dock

Date	Viewpoint	View Direction	Description
1/2/2013	Interior	-	Old Battery Storage

Photodocumentation Log
Administration Building
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/24/2013	Driveway	North	Paint Stains on Brick

Photodocumentation Log
Girls Wing
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/24/2013	Interior	-	Boiler

Date	Viewpoint	View Direction	Description
1/24/2013	Interior	-	Boiler Room

Photodocumentation Log
Girls Dorm
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/24/2013	Boiler Room	East	Boiler Room – Coal Chute

Date	Viewpoint	View Direction	Description
1/24/2013	Boiler Room	East	Boiler Room Sump (Water on Floor)

Photodocumentation Log
Girls Dorm
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/24/2013	North Lawn	Down	Door to Boiler Room

Date	Viewpoint	View Direction	Description
1/24/2013	Driveway	North	Paint Stains

Photodocumentation Log
Crouter Building
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/17/2013	Interior	Interior	Former Carpentry Shop – Empty HCL Drums

Date	Viewpoint	View Direction	Description
1/17/2013	Interior	Down	Former Engine Lab – Oil Stain from Blower

Photodocumentation Log
Crouter Building
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/17/2013	Interior	Down	Former Spray Paint Room

Date	Viewpoint	View Direction	Description
1/17/2013	North of Admin Building	Southeast	Remediated Transformer

Photodocumentation Log
Crouter Building
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/17/2013	Driveway	East	Dust Collector

Photodocumentation Log
Crouter Building
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/24/2013	Engine Lab	South	Sink

Date	Viewpoint	View Direction	Description
1/24/2013	Engine Lab	South	Sink

Photodocumentation Log
Crouter Building
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/24/2013	Driveway	South	Suspect Paint

Photodocumentation Log
Durant Building
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/24/2013	Loading Dock	Northeast	Transformer

Date	Viewpoint	View Direction	Description
1/24/2013	Loading Dock	Northwest	Transformer

Photodocumentation Log
Rainbow House
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/24/2013	Basement	North	Boiler Room AST

Date	Viewpoint	View Direction	Description
1/24/2013	Basement	North	Boiler Room – Former & New Boilers

Photodocumentation Log
Rainbow House
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/24/2013	Basement	North	Boiler Room – AST

Date	Viewpoint	View Direction	Description
1/24/2013	Basement	North	Boiler Room – Water Tank

Photodocumentation Log
Rainbow House
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/24/2013	Basement	Southwest	Boiler Room - Sump

Photodocumentation Log
Maintenance Garage & Wood Shed
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/24/2013	Parking Area	North	Maintenance Garage

Date	Viewpoint	View Direction	Description
1/24/2013	Rainbow House Garage North Lawn	Northeast	Maintenance Garage

Photodocumentation Log
Garage
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/24/2013	Driveway	North	Rainbow House Garage

Date	Viewpoint	View Direction	Description
1/24/2013	North Lawn	South	Rainbow House Garage

Photodocumentation Log
Garage
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/24/2013	Parking Area	East	Wood Shed

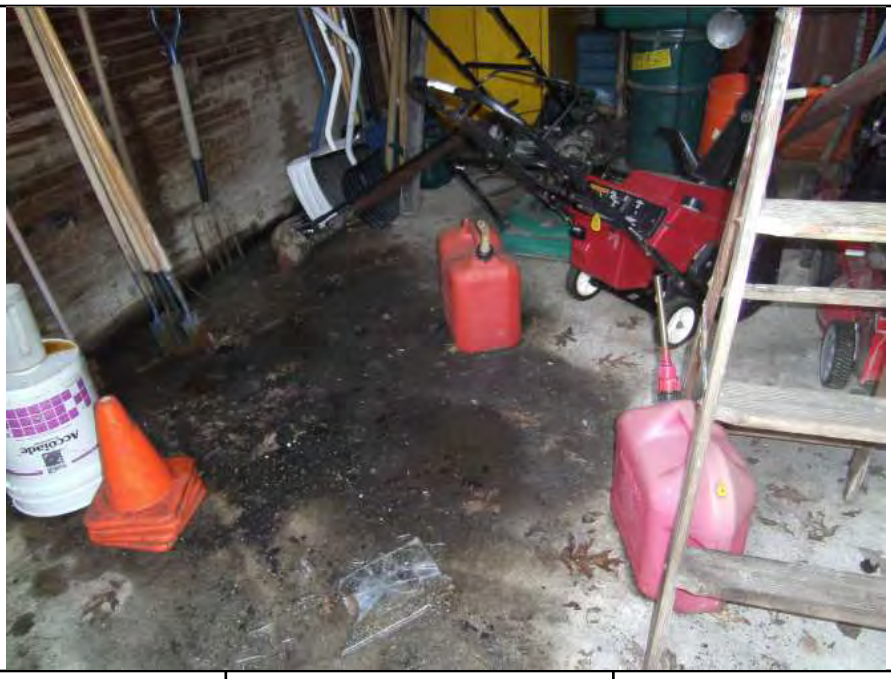
Date	Viewpoint	View Direction	Description
1/24/2013	Rainbow House Garage North Lawn	North-Northeast	Wood Shed

Photodocumentation Log
Garage
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/24/2013	Wood Shed North Lawn	South	Wood Shed

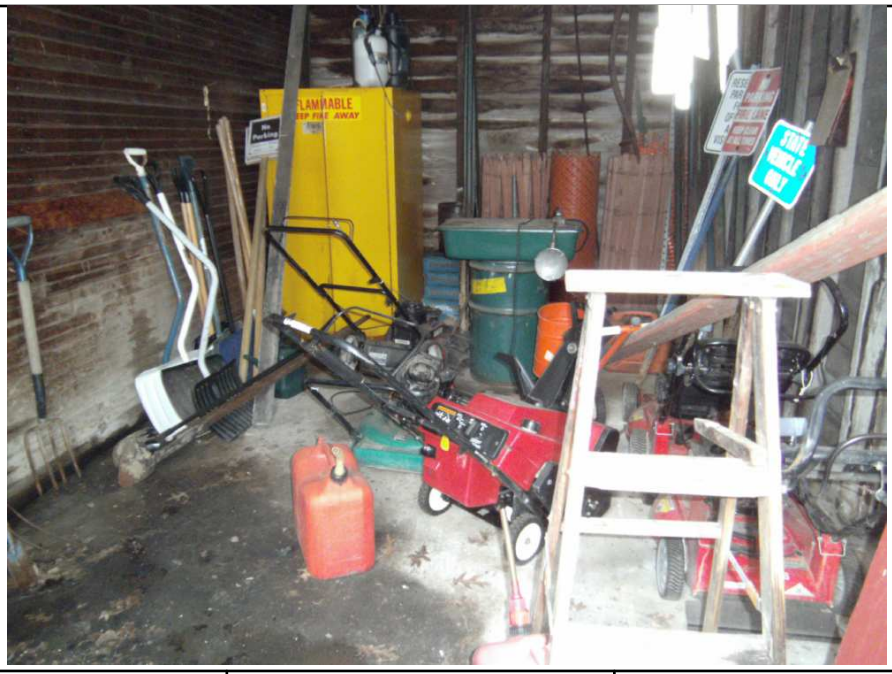
Photodocumentation Log
Wood Shed
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/17/2013	Wood Shed	Northwest	Stained Concrete



Date	Viewpoint	View Direction	Description
1/17/2013	Wood Shed	Down	Stained Concrete

Photodocumentation Log
Wood Shed
Former Mystic Oral School for the Deaf
Mystic, Connecticut



Date	Viewpoint	View Direction	Description
1/17/2013	Wood Shed	North	Stained Concrete

Date	Viewpoint	View Direction	Description
1/17/2013	Wood Shed	North	Waste Oil Storage

Photodocumentation Log
Exterior
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/17/2013	North of Driveway	Southeast	Solid Waste Disposal Area

Date	Viewpoint	View Direction	Description
1/17/2013	North of Driveway	Northeast	Solid Waste Disposal Area Asphalt Pile

Photodocumentation Log
Exterior
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/17/2013	South side of Pratt Building	Southwest	Sanitary Lift Station at Pratt Building

Photodocumentation Log
0 Oral School Road
Former Mystic Oral School for the Deaf
Mystic, Connecticut

Date	Viewpoint	View Direction	Description
1/24/2013	0 Oral School Road	North	Fire Department Training Unit

Date	Viewpoint	View Direction	Description
1/24/2013	0 Oral School Road	Northwest	Fire Department Training Unit

APPENDIX C

Town of Groton Records

State of Florida,
Palm Beach County, s.s. West Palm Beach, December 28th A.D. 1920.
Personally Appeared, Edward E. Spicer and Sarah A. Spicer signers and sealers of the foregoing instrument and acknowledged the same to be their free act and deed, before me,
(SEAL) L. R. Baker- - - - - - - - - - - Notary Public.
My commission expires Aug. 14, 1921.

STATE OF FLORIDA
COUNTY OF PALM BEACH ss.
I, GEO. O. BUTLER, Clerk of the County of Palm Beach, and also Clerk of the Circuit Court for the said County, the same being a Court of Record, DO HEREBY CERTIFY, That L. R. Baker whose name is subscribed to the deposition or certificate of the proof or acknowledgment of the annexed instrument and thereon written, was, at the time of taking such deposition or proof and acknowledgment a Notary Public, acting in and for the said County, duly commissioned and sworn, and authorized by the laws of said State to take depositions and also acknowledgments and proofs of Deeds, or conveyances for land, tenements or hereditaments in said State of Florida. That there is on file in the Clerk's office of the County of Palm Beach a certified copy of his appointment and qualifications as Notary Public of the County of Palm Beach, and further, That I am well acquainted with the hand-writing of such Notary Public, and verily believe that the signature to said deposition, or certificate of proof or acknowledgment is genuine.
In Testimony Whereof, I have hereunto set my hand and affixed the seal of the said Court and County, this 28th day of December 1920.
(SEAL) Geo. O. Butler- - - - - - - - - Clerk.
By Fred E. Fenno- - - - - - - - Deputy.

An Instrument purporting to release and discharge this Mortgage is recorded in Book No. 72 page 571

Rec'd for Record Jan. 7, 1921,
at 8 A.M.
Attest:. Henry L. Baelly . . . . Town Clerk. Maude J. Fitch Asst Town Clerk.

(RELEASE OF TAX LIEN)

This is to Certify, That the Tax Lien on the Property of Kariska S. Gates situated in the Town of Groton, on the Levy of 1917 is Hereby Released.
Dated at Groton, Conn., this 5th day of January 1921.
Irving H. Poppe- - - - - Tax Collector.

Rec'd for Record Jan. 6, 1921,
at 8 A.M.
Attest:. Henry L. Baelly . . Town Clerk.

(RELEASE OF TAX LIEN)

This is to Certify, That the Tax Lien on the Property of Charles L. Kinney Estate c/o Chas. B. Allen situated in the Town of Groton, on the Levy of 1913 is hereby Released.
Dated at Groton, Conn., this 31st day of December 1920.
Irving H. Poppe- - - - - Tax Collector.

Rec'd for Record Jan. 6, 1921,
at 8 A.M.
Attest:. Henry L. Baelly . . . Town Clerk.

(WARRANTY DEED)

TO ALL PEOPLE TO WHOM THESE PRESENTS SHALL COME, GREETING; KNOW YE, That The Mystic Oral School For The Deaf, a legal corporation organized and existing under the laws of the State of Connecticut and located at Mystic in the Town of Groton, County of New London, State of Connecticut, acting herein by C. H. Latham, its Secretary and Treasurer duly authorized by meeting of the stockholders dated December 20th, 1920 for the consideration of twenty thousand (20,000) dollars received to its full satisfaction of the State of Connecticut, do give, grant, bargain, sell and confirm unto the said the State of Connecticut, four certain tracts of land with the buildings thereon standing situated in the village of Mystic in the said Town of Groton and bounded and described as follows:

FIRST TRACT On the north by lands now or late of the heirs of Hannah Bostwick; on the east and south by lands now or late of Clark P. Brown; on the west by land now or late of Charles L. Kinney, containing about twenty (20) acres of land being the same more or less (said property being known as the Mystic Oral School property formerly the Whipple Home School property)---together with all and singularly the tenements, hereditaments, and appurtenances thereonto belonging or in any way appertaining, and the reversions, remainders, rents, issues, and profits thereof. Said tract of land being conveyed to the Mystic Oral School for the Deaf Corporation by Clara M. Hammond McGuigan of Philadelphia, Pa. by quit-claim deed dated May 4th, 1899 and recorded in Book 40, Page 547 of the Groton Land Records.

SECOND TRACT Beginning at the northwesterly corner of the premises at land of Laura Pickering and thence running easterly and southerly by the line of a private way leading past the Mystic Oral School for the Deaf Corporation to land of Elizabeth Williams; thence westerly, northerly, and southerly by land of said Elizabeth Williams to land of said Laura Pickering; thence westerly by said Pickering land to the southwesterly corner of these described premises; thence northerly by said Laura Pickering land to said private way at the place of beginning containing seven (7) acres more or less. Conveyed to Mystic Oral School by Charles L. Kinney, Warranty deed dated September 4th, 1909, recorded in Book 55, Page 655 of of the Groton Land Records.

THIRD TRACT Beginning at the northeast corner of lands conveyed to Lucien O. Allen by Alice H. Damon by deed dated April 24th, 1904 at a drill mark (T) on the bottom stone of a wall on the west line of lands lately owned by Charles D. Williams and running thence north 16° 47' east with said wall 558 7/10 feet; thence north 15° 50' east with said wall 275 feet; thence north 15° 27' east with said wall 130 feet; thence north 14° 27' east with said wall 236 feet to lands now or lately owned by Nathan Holloway; thence north 76° 51' west with the wall and said Holloway's lands 225 3/10 feet; thence north 45° 42' west with the wall 90 85/100 feet; thence north 26° 41' west with the wall 84 25/100 feet; thence north 7° 3' west 78 3/10 feet to land now or lately owned by Alfred Bostwick; thence north 76° 7' west with the wall and said Bostwick land 329 feet to land now or lately owned by the Mystic Oral School for the Deaf; thence south no degrees 26' west with said Oral School Land 1134 5/10 feet to the southeast corner of said Oral School land; thence north 84° 6' west bounded north by said Oral School land 356 15/100 feet to a wall running southerly; thence south 2° 1' west with said wall 400 75/100 feet to a mere-stone and being a corner of the said land conveyed to said Lucian O. Allen by the party of the first part; thence north 89° 55' east 242 6/10 feet to a drill mark (T) on bottom stone of an old farm wall; thence continuing the same course and with the wall 265 feet to another drill mark; thence continuing the same course to the drill mark (T) on the bottom stone of the wall on the westerly line of the said Charles D. Williams land being the place of beginning containing 18 95/100 acres more or less, together with a right of way to the above described lands across the said lands heretofore conveyed by said Alice H. Damon to said Lucian O. Allen by deeds dated April 21, 1904 from a private road or way through the bar way a short distance north of the northwest corner of the (north field) and a short distance south of the mere-stone mentioned in the foregoing description at or near the old roadway across said Allen's land being the same right of way reserved by said Alice H. Damon in said deeds to said Lucian O. Allen and together with the rights reserved by said Alice H. Damon hereto and in favor of the owner of the herein described premises which rights are set forth in said Lucian O. Allen's deed wherein and whereby the particular location and width of said reserved way is to be adjusted and agreed upon by the owner of the premises hereby conveyed and by the owner of the premises conveyed by said Deed to said Allen. Said tract being conveyed to the Mystic Oral School for the Deaf by Alice H. Damon by Warranty deed dated December 9th, 1909 and recorded in Book 51, Page 531 of the Groton Land Records.

FOURTH TRACT Beginning at the southwest corner of the premises adjoining lane or private way running easterly by north side of said lane; thence northerly by land of Clara Hammond; thence westerly by lands of John and Andrew Mason; thence southerly by said Mason's land to the place of beginning containing about one (1) acre of land. Said tract of land being obtained by said Mystic Oral School for the Deaf Corporation from Mary C. Wilcox by warranty deed dated October 27th, 1917 and recorded in Book 55, Page 655 of the Groton Land Records.

TO HAVE AND TO HOLD the above granted and bargained premises with the appurtenances thereof, unto it the said grantee, its successors and assigns forever, to its and their own proper use and behoof. And also it the said grantor does for itself, its successors and assigns covenant with the said grantee, its successors and assigns, that at and until the ensealing of these presents, it is well seized of the premises, as a good indefeasible estate in fee simple, and have good right to bargain and sell the same in manner and form as is above written; and that the same is free from all incumbrances whatsoever.

AND FURTHERMORE, it the said grator does by these presents bind itself and its successors and assigns forever to warrant and defend the above granted and bargained premises to it the said grantee, its successors and assigns, against all claims and demands whatsoever.

IN WITNESS WHEREOF, it has hereunto set its hand and seal this 4th day of January A.D. 1921.

Signed, sealed and delivered
in the presence of
Mary McNamara
M. R. Davis

The Mystic Oral School for the Deaf Corpl
By C. H. Latham (L.S.)
Its Secretary & Treasurer.

STATE OF CONNECTICUT
COUNTY OF NEW LONDON ss. New London January 4th 1921.

Personally appeared the Mystic Oral School for the Deaf acting herein by C. H. Latham, its Secretary and Treasurer duly authorized, signer and sealer of the foregoing instrument and acknowledged the same to be its free act and deed, before me,

(SEAL) Marion R. Davis- - - - - - -Notary Public.

I.R. Stamps $19.50
Cancelled.

Rec'd for Record Jan. 7, 1921,
at 2 P.M.

Attest:. Henry L. Bailey. . . . , Town Clerk.

(QUIT-CLAIM DEED)

KNOW ALL MEN BY THESE PRESENTS That I, Clara Hammond McGuigan of 6018 Drexel Road, Philadelphia, Pennsylvania for the consideration of one dollar and other good and valuable considerations received to my full satisfaction of the State of Connecticut do by these presents remise, release, and forever quit-claim unto the said the State of Connecticut all right, title, interest, claim and demand whatever which I the said releaser have or ought to have in or to four certain tracts of land with the buildings thereon standing situated in the village of Mystic in the Town of Groton and bounded and described as follows:

FIRST TRACT On the north by lands now or late of the heirs of Hannah Bostwick; on the east and south by lands now or late of Clark B. Brown; on the west by land now or late of Charles L. Kinney, containing about twenty (20) acres of land being the same more or less (said property being known as the Mystic Oral School property formerly the Whipple Home School property)---together with all and singularly the tenements, hereditaments, and appurtenances thereonto belonging or in any way appertaining, and the reversions, remainders, rents, issues, and profits thereof, said tract of land being conveyed to the Mystic Oral School for the Deaf Corporation by Clara M. Hammond McGuigan of Philadelphia, Pa. by quit-claim deed dated May 4th, 1899 and recorded in Book 40, Page 547 of the Groton Land Records.

SECOND TRACT Beginning at the northwesterly corner of the premises at land of Laura Pickering and thence running easterly and southerly by the line of a private way leading past the Mystic Oral School for the Deaf Corporation to land of Elizabeth Williams; thence westerly, northerly, and southerly by land of said Elizabeth Williams to land of said Laura Pickering; thence westerly by said Pickering land to the southwesterly corner of these described premises; thence northerly by said Laura Pickering land to said private way at the place of beginning containing seven (7) acres more or less, conveyed to Mystic Oral School by Charles L. Kinney, warranty deed dated September 4th, 1909, recorded in Book 55, Page 655 of the Groton Land Records.

THIRD TRACT Beginning at the northeast corner of lands conveyed to Lucian O. Allen by Alice H. Damon by deed dated April 24th, 1904 at a drill mark (T) on the bottom stone of a wall on the west line of lands lately owned by Charles D. Williams and running thence north 16° 47'east with said wall 558 7/10 feet; thence north 15° 50' east with said wall 273 feet; thence north 15° 27' east with said wall 130 feet; thence north 14° 27' east with said wall 236 feet to lands now or lately owned by Nathan Holloway; thence north 76° 51' west with the wall and said Holloway's lands 225 3/10 feet; thence north 45° 42' west with the wall 90 85/100 feet; thence north 26° 41' west with the wall 84 25/100 feet; thence north 7° 3' west 78 3/10 feet to land now or lately owned by Alfred Bostwick; thence north 76° 7' west with the wall and said Bostwick land 329 feet to land now or lately owned by the Mystic Oral School for the Deaf; thence south no degrees 26' west with said Oral School land 1134 5/10 feet to the southeast corner of said Oral School land; thence north 84° 6' west bounded north by said Oral School land 356 15/100 feet to a wall running southerly; thence south 2° 1' west with said wall 400 75/100 feet to a merestone and being a corner of the said land conveyed to said Lucian O. Allen by the party of the first part; thence north 89° 55' east 242 6/10 feet to a drill mark (T) on bottom stone of an old farm wall; thence continuing the same course and with the wall 265 feet to another drill mark; thence continuing the same course to the drill mark (T) on the bottom stone of the wall on the westerly line of the said Charles D. Williams land being the place of beginning containing 18 95/100 acres more or less, together with a right of way to the above described lands across the said lands heretofore conveyed by said Alice H. Damon to said Lucian O. Allen by deeds dated April 21, 1904 from a private road or way through the bar way a short distance north of the northwest corner of the (north field) and

STATE OF CONNECTICUT,
County of New LondoN, ss.Colchester, Oct, 8th, A.D. 1932.

Personally aPPeared Clara M. Gillette signer and sealer of the foregoing instrument, and acknowledged the same to be her free act and deed, before me,

(SEAL) JOhn Candren, Notary Public.

Received for Record Oct. 28,1932
Attest Henry L. Bailey . . . . Town Clerk.

(CERTIFICATE OF REAL ESTATE)

STATE OF CONNECTICUT
COunty Of New London,ss.July 1932.

TO WHOM IT MAY CONCERN:

This certifies that Lila T. Leffingwell whO last dwelt in the Town of Groton County of New London, State of Connecticut, and who was the owner of real estate situated in the Town of Groton, County of New London, State of Connecticut, died at New LondOn, on the 19th day of June A.D. 1932,leaving a last will and testament.

Attest;

Clarence F.Leffingwell
Executor.

Received for Record Oct. 29,1932
Attest Henry L. Bailey. . Town Clerk.

WARRANTY DEED)

To All People to whom These Presents shall come Greeting; Know Ye.That We, Frederic deP eyster Townsend, and Elsie Gray Townsend,husband and wife, both of Grand'Merem Canada, for the consideration of One Dollar and other good and valuable considerations, received to our full satisfaction of the State of Connecticut, do give grant,bargain, sell and confirm unto the said State of Connecticut, a certain tract of land with the buildings thereon standing, located on the westerly side of the Mystic River between Mystic and Old Mystic, in the Town of Groton, County of New London, and State of Connecticut, bounded and described as follows;

Beginning at a point on the northerly side of the Road leading from Mystic to Old Mystic, at its intersection with the easterly side of the road leading from the above road to the Mystic Oral SchOOl; thence on a magnetic bearing north 7 degrees 21 minutes east 319.0 feet to the corner of a wall bounded westerly by the road leading to the Mystic Oral School; thence south 80 degrees 9 minutes east 25.0 feet; thance north 75 degrees 40 minutes east 150 east to the corner of a wall; thence north 7 degrees 15 minutes east 185.0 feet thence north 4 degrees 30 minutes east 313.0 feet, the last four lines abutting northerly and westerly on land of Lucius O.Allen; thence north 17 degrees 15 minutes east 1170.0 feet; thence north 16 degrees 15 minutes east 627.0 feet to the intersection of two walls on the dividing line between the land of the Mystic Oral School and land of Nathan Holloway,the last two lines abutting easterly on lands of Lucius O.Allen and the Mystic Oral School; thence south 77 degrees 39 minutes east 803.5 feet to the intersection of two walls on dividing line betweenland of Grantors and land of Frank Ciconi, abutting northerly on land of Nathan Holloway; thence south 0 degrees 28 minutes east 145.5 feet; thence south 3 degrees 37 minutes west 211.10 feet; thence south 24 degrees 13 minutes west 97.5 feet to a one half inch drill hole on the face of a ledge, the last three lines abutting easterly on lands of Frank Ciconi. and William Wilkinson; thence south 63 degrees 56 minutes east passing through a one half inch dril l hole on a large boulder a distance of 209.0 feet to the westerly side of the

road leading from Mystic toOld Mystic; thence across the road in the last mentioned direction, extended to the westerly bank of the Mystic River, abutting northerly on land of William WIlkinson; thence in a southerly direction along the westerly bank of the Mystic River about 900 feet to the land of George Koch; thence westerly along the northerly side of said Koch land to the center of the last mentioned road; thence southerly along the center line of said road; abutting easterly on land of said Koch; thence easterly along the southerly side of said Koch land to the westerly bank of the Mystic River; thence in a southerly direction along the westerly side of the Mystic River about 675.0 feet to the range of a stone wall, the dividing line between the land of the grantor and land of Mary R.Leonard; thence north 78 degrees 43 minutes west across the above mentioned road to the easterly end of the above wall; thence in the same direction continued along center line of said wall 173 feet; thence south 11 degrees 54 minutes west 50 feet; thence north 86 degrees 41 minutes west 164.0 feet to the more westerly and larger of two drill holes in the base stone of the wall; the last three lines abutting southerly easterly and southerly on land of Mary R.Leonard; thence south 4 degrees 5 minutes west and passing through a point distant 2 feet westerly from the westerly side of the concrete curb of a well on the land of Mary R.Leonard, a distance of 212.0 feet to the northerly side of above mentioned road; thence in the same direction extended to the northerly side of the Mystic River, the last two lines abutting easterly on land of Mary R. Leonard; thence in a westerly direction along the northerly side of the Mystic River about 625 feet to theland or water lots of Lucius O.Allen, said point being opposite the point of beginning; thence northwesterly across the above mentioned road to the point of beginning, containing 53.8 acres.

The Smith Burying Ground, a small tract of land about 75 feet long and about 40 feet wide, located in about the middle of the first described tract of land is exceptdd from this conveyance.

The premises are conveyed subject to the rights of those having interests in said burying ground to pass and repass to and from said burying ground and said road leading from Mystic to Old Mystic over a path lying between said road and said Burying Ground with vehicles and on foot and to keep said path in good condition.

TO HAVE AND TO HOLD the above granted and bargained premises, with the appurtenances thereof unto the said grantee, and its successors, to its and their own proper use and behoof. And also, we the said grantors, do for ourselves our heirs executors and administrators, covenant with the said grantee,and its successors, that at and until the ensealing of these presents, we are well seized of the premises, as a good indefeasible estate in fee simple and have good right to bargain and sell the same in manner and form as is above written; and that the same is free from all incumbrances whatsoever, except as above stated.

AND FURTHERMORE, we, the said grantors, do by these presents bind ourselves and our heirs forever, to warrant and defend the above granted and baRgained premises to it, the said grantee and its successors, against all claims and demands whatsoever, except as above stated.

IN WITNESS WHEREOF, we have hereunto set our hands and seals this 13th day of August A.D. 1931.

Signed, sealed and delivered
in presence of
Helena Pelletier
Gray Jensvold

Elsie Gray Townsend Seal

Frederic dePeyster Townsend Seal

Canada
Province of Q uebec ss Grand'Mere

August 13th, A.D. 1931.

Personally appeared Frederic DePeyster Townsend and Elsie Gray Townsendm signers and sealers of the foregoing strument, and acknowledged the same to be their free acts and deeds, before me,

(SEAL)

L.J. Dostaler
NOtary Public

Approved as to form,Warren B.Burrows, Atty Gen.
Sept. 24- 1931

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 0 ORAL SCHOOL RD	Map ID: 261910373243 E	Class: State Of Connecticut	Card: 1 of 1	Printed: October 15, 2012

CURRENT OWNER

CONNECTICUT STATE OF
I-95
ORAL SCHOOL RD
MYSTIC CT 06355

GENERAL INFORMATION

Living Units	
Neighborhood	1061
Alternate Id	165009000
Vol / Pg	195/64
District	5
Zoning	RU-20
Class	COMMERCIAL

Property Notes

07GL NBHD CHG
RAVINE + CREEK

Land Information

Type		Size	Influence Factors	Influence %	Value
Excess	AC	0.2200			3,080

Total Acres: .22
Spot: Location:

Assessment Information

	Assessed	Appraised	Cost	Income	Market
Land	2,170	3,100	3,100	0	0
Building	0	0	0	0	0
Total	2,170	3,100	3,100	0	0

Manual Override Reason
Base Date of Value 01-OCT-2011
Value Flag COST APPROACH Effective Date of Value 01-OCT-2011
Gross Building:

Entrance Information

Date	ID	Entry Code	Source
09/29/10	JH	Unimproved	Other
05/10/01	BF	Unimproved	Other

Permit Information

Date Issued	Number	Price	Purpose	% Complete

Sales/Ownership History

Transfer Date	Price	Type	Validity	Deed Reference	Deed Type	Grantee

Inspection Witnessed By _____

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 0 ORAL SCHOOL RD	Parcel Id: 261910373243 E	Class: State Of Connecticut	Card: 1 of 1	Printed: October 15, 2012

Building Information

Year Built/Eff Year	/
Building #	
Structure Type	
Identical Units	
Total Units	
Grade	
# Covered Parking	
# Uncovered Parking	
DBA	

Building Other Features

Line	Type	+/-	Meas1	Meas2	# Stops	Ident Units	Line	Type	+/-	Meas1	Meas2	# Stops	Ident Units

Interior/Exterior Information

Line	Level From - To	Int Fin	Area	Perim	Use Type	Wall Height	Ext Walls	Construction	Partitions	Heating	Cooling	Plumbing	Physical	Functional

Interior/Exterior Valuation Detail

Line	Area	Use Type	% Good	% Complete	Use Value/RCNLD

Outbuilding Data

Line	Type	Yr Blt	Meas1	Meas2	Qty	Area	Grade	Phy Fun	Value

Addtional Property Photos

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 0 ORAL SCHOOL RD	Parcel Id: 261910373243 E	Class: State Of Connecticut	Card: 1 of 1	Printed: October 15, 2012

Income Detail (Includes all Buildings on Parcel)

Use Grp	Mod Type	Inc Mod	Model Description	Units	Net Area	Income Rate	Econ Adjust	Potential Gross Income	Vac Model	Vac Adj	Additional Income	Effective Gross Income	Expense Model %	Expense Adj %	Expense Adj	Other Expenses	Total Expenses	Net Operating Income

Apartment Detail - Building 1 of 1

Line	Use Type	Per Bldg	Beds	Baths	Units	Rent	Income

Building Cost Detail - Building 1 of 1

Total Gross Building Area	
Replace, Cost New Less Depr	
Percent Complete	100
Number of Identical Units	
Economic Condition Factor	
Final Building Value	
Value per SF	0.00

Notes - Building 1 of 1

Income Summary (Includes all Building on Parcel)

Total Net Income	
Capitalization Rate	
Sub total	
Residual Land Value	
Final Income Value	
Total Gross Rent Area	
Total Gross Building Area	

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

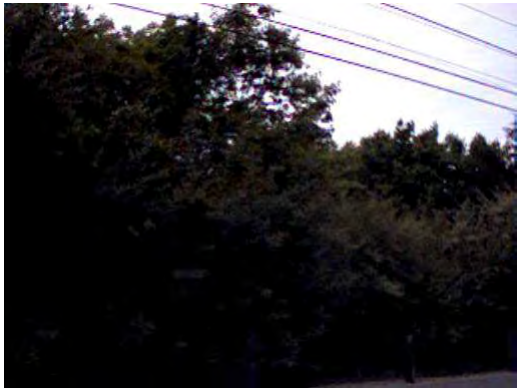
Situs : 0 ORAL SCHOOL RD	Map ID: 261910375232 E	Class: State Of Connecticut	Card: 1 of 1	Printed: October 15, 2012

CURRENT OWNER

CONNECTICUT STATE OF
I-95
ORAL SCHOOL RD
MYSTIC CT 06355

GENERAL INFORMATION

Living Units	
Neighborhood	1061
Alternate Id	165012000
Vol / Pg	195/351
District	5
Zoning	RU-20
Class	COMMERCIAL



Property Notes

CREEK/TRIANGLE LOT

Land Information

Type		Size	Influence Factors	Influence %	Value
Excess	AC	0.3300			4,620

Total Acres: .33
Spot: Location:

Assessment Information

	Assessed	Appraised	Cost	Income	Market
Land	3,220	4,600	4,600	0	0
Building	0	0	0	0	0
Total	3,220	4,600	4,600	0	0

Manual Override Reason
Base Date of Value 01-OCT-2011
Effective Date of Value 01-OCT-2011
Value Flag COST APPROACH
Gross Building:

Entrance Information

Date	ID	Entry Code	Source
09/29/10	JH	Unimproved	Other
05/10/01	BF	Unimproved	Other

Permit Information

Date Issued	Number	Price	Purpose	% Complete

Sales/Ownership History

Transfer Date	Price	Type	Validity	Deed Reference	Deed Type	Grantee

Inspection Witnessed By _____

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 0 ORAL SCHOOL RD	Parcel Id: 261910375232 E	Class: State Of Connecticut	Card: 1 of 1	Printed: October 15, 2012

Building Information

Year Built/Eff Year	/
Building #	
Structure Type	
Identical Units	
Total Units	
Grade	
# Covered Parking	
# Uncovered Parking	
DBA	

Building Other Features

Line	Type	+/-	Meas1	Meas2	# Stops	Ident Units	Line	Type	+/-	Meas1	Meas2	# Stops	Ident Units

Interior/Exterior Information

Line	Level From - To	Int Fin	Area	Perim	Use Type	Wall Height	Ext Walls	Construction	Partitions	Heating	Cooling	Plumbing	Physical	Functional

Interior/Exterior Valuation Detail

Line	Area	Use Type	% Good	% Complete	Use Value/RCNLD

Outbuilding Data

Line	Type	Yr Blt	Meas1	Meas2	Qty	Area	Grade	Phy Fun	Value

Addtional Property Photos

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 0 ORAL SCHOOL RD	Parcel Id: 261910375232 E	Class: State Of Connecticut	Card: 1 of 1	Printed: October 15, 2012

Income Detail (Includes all Buildings on Parcel)

Use Grp	Mod Type	Inc Mod	Model Description	Units	Net Area	Income Rate	Econ Adjust	Potential Gross Income	Vac Model	Vac Adj	Additional Income	Effective Gross Income	Expense Model %	Expense Adj %	Expense Adj	Other Expenses	Total Expenses	Net Operating Income

Apartment Detail - Building 1 of 1

Line	Use Type	Per Bldg	Beds	Baths	Units	Rent	Income

Building Cost Detail - Building 1 of 1

Total Gross Building Area	
Replace, Cost New Less Depr	
Percent Complete	100
Number of Identical Units	
Economic Condition Factor	
Final Building Value	
Value per SF	0.00

Notes - Building 1 of 1

Income Summary (Includes all Building on Parcel)

Total Net Income	
Capitalization Rate	
Sub total	
Residual Land Value	
Final Income Value	
Total Gross Rent Area	
Total Gross Building Area	

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 240 ORAL SCHOOL RD	Map ID: 261906388923 E	Class: State Of Connecticut	Card: 1 of 6	Printed: October 15, 2012

CURRENT OWNER

CONNECTICUT STATE OF
MYSTIC ORAL SCHOOL
9 ORAL SCHOOL RD
MYSTIC CT 06355

GENERAL INFORMATION

Living Units	
Neighborhood	3010
Alternate Id	164038000
Vol / Pg	90/426
District	5
Zoning	RU-80
Class	COMMERCIAL

Property Notes

Land Information

Type		Size	Influence Factors	Influence %	Value
Primary	AC	5.0000			750,000
Excess	AC	86.8200			1,302,300
Waste	AC	10.0000			10,000

Total Acres: 101.82
Spot:
Location: 6 Neighborhood or Spot

Assessment Information

	Assessed	Appraised	Cost	Income	Market
Land	1,443,610	2,062,300	2,062,300	0	0
Building	9,996,560	14,280,800	14,280,800	0	0
Total	11,440,170	16,343,100	16,343,100	0	0

Manual Override Reason
Base Date of Value 01-OCT-2011
Value Flag COST SUPPRESS INCC Effective Date of Value 01-OCT-2011
Gross Building:

Entrance Information

Date	ID	Entry Code	Source
05/09/01	BF	Entry & Sign	Other

Permit Information

Date Issued	Number	Price	Purpose	% Complete

Sales/Ownership History

Transfer Date	Price	Type	Validity	Deed Reference	Deed Type	Grantee

Inspection Witnessed By _____

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 240 ORAL SCHOOL RD	Parcel Id: 261906388923 E	Class: State Of Connecticut	Card: 1 of 6	Printed: October 15, 2012

Building Information

Year Built/Eff Year	1976 /
Building #	1
Structure Type	Cultural Facility
Identical Units	1
Total Units	1
Grade	B-
# Covered Parking	
# Uncovered Parking	
DBA	

Building Other Features

Line	Type	+/-	Meas1	Meas2	# Stops	Ident Units	Line	Type	+/-	Meas1	Meas2	# Stops	Ident Units
2	Sprinkler Sys Wet		37,352	1		1							
2	Indoor Pool		46	76		1							

Interior/Exterior Information

Line	Level From - To		Int Fin	Area	Perim	Use Type	Wall Height	Ext Walls	Construction	Partitions	Heating	Cooling	Plumbing	Physical	Functional
1	B1	B1	100	14,697	556	Support Area	12	None	Fire Resistant	Normal	None	None	Normal	3	3
2	01	01	100	14,697	421	Covered Mall	24	Brick Venee	Fire Resistant	Normal	Hot Air	Central	Normal	3	3
3	01	01	100	11,340	438	Auditorium/Theate	30	Brick Venee	Fire Resistant	Normal	Hot Air	Central	Normal	3	3
4	01	01	100	5,231	302	Multi-Use Sales	12	Brick Venee	Fire Resistant	Normal	Hot Air	Central	Normal	3	3
5	01	01	100	4,874	222	Auditorium/Theate	30	Brick Venee	Fire Resistant	Normal	Hot Air	Central	Normal	3	3
6	M1	M1	100	1,090	72	Multi-Use Sales	10	Enclosure	Wood Frame/Joist/B	Normal	Hot Air	Central	Normal	3	3

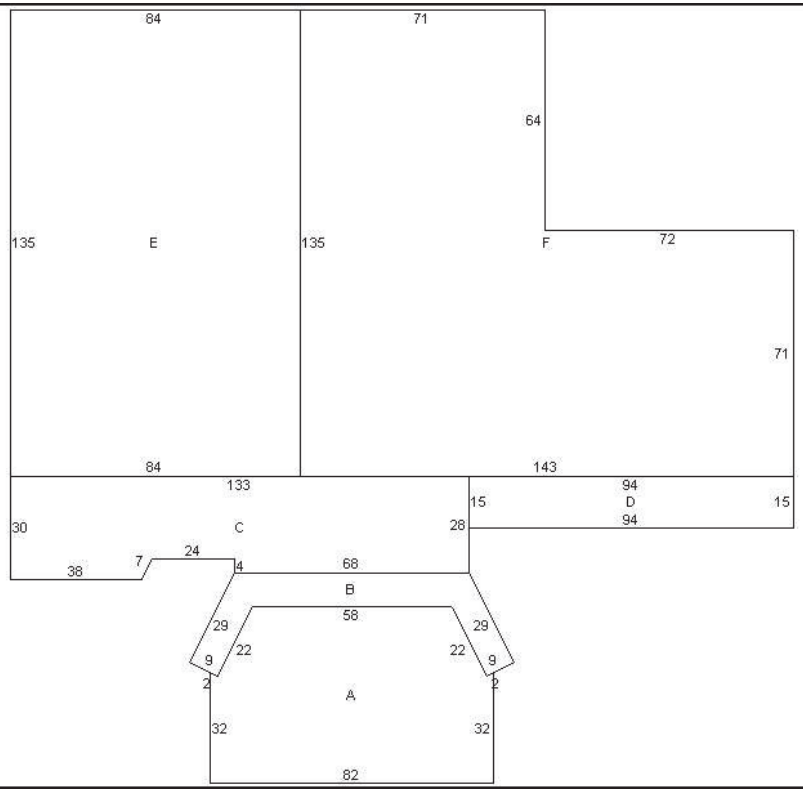
Interior/Exterior Valuation Detail

Line	Area	Use Type	% Good	% Complete	Use Value/RCNLD
1	14,697	Support Area	71		436,510
2	14,697	Covered Mall	71		1,330,110
3	11,340	Auditorium/Theater	71		1,171,290
4	5,231	Multi-Use Sales	71		337,380
5	4,874	Auditorium/Theater	71		526,640
6	1,090	Multi-Use Sales	65		39,730

Outbuilding Data

Line	Type	Yr Blt	Meas1	Meas2	Qty	Area	Grade	Phy	Fun	Value
1	Asph Pav	1980			1	18,000	C	3	3	9,450

Situs : 240 ORAL SCHOOL RD	Parcel Id: 261906388923 E	Class: State Of Connecticut	Card: 1 of 6	Printed: October 15, 2012



ID	Code	Description	Area
A	VS1	1S	3904
B	VS1	1S	1090
C	VS1	1S	3701
D	VS1	1S	1410
E	VS1	1S	11340
F	VB1	1S/B	14697

Addtional Property Photos

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 240 ORAL SCHOOL RD	Parcel Id: 261906388923 E	Class: State Of Connecticut	Card: 1 of 6	Printed: October 15, 2012

Income Detail (Includes all Buildings on Parcel)

Use Grp	Mod Type	Inc Mod	Model Description	Units	Net Area	Income Rate	Econ Adjust	Potential Gross Income	Vac Model	Vac Adj	Additional Income	Effective Gross Income	Expense Model %	Expense Adj %	Expense Adj	Other Expenses	Total Expenses	Net Operating Income
00	S	001	Support No Income	0	775						0							
01	A	001	Apartment	0	3,630				8		0		40					
03	S	002	Retail	0	2,541	13.00		33,033	8		0	30,390	25			7,598	7,598	22,792
04	S	002	Office	0	16,214	15.00		243,210	10		0	218,889	30			65,667	65,667	153,222
06	H	001	Hotel	0	25,788	100.00			35		0		80					
07	S	001	Light Manuf/Warehous	0	14,067	7.00		98,469	10		0	88,622	15			13,293	13,293	75,329
16	S	002	Restaurant	0	8,473	18.00		152,514	10		0	137,263	20			27,453	27,453	109,810
23	S	002	Multi Use Sales	0	6,321	10.00		63,210	10		0	56,889	30			17,067	17,067	39,822
24	S	002	Multi Use Office	0	79,263	12.00		951,156	5		0	903,598	30			271,079	271,079	632,519
25	S	001	Multi Use Storage	0	8,735	4.50		39,308	5		0	37,343	15			5,601	5,601	31,742

Apartment Detail - Building 1 of 6

Line	Use Type	Per Bldg	Beds	Baths	Units	Rent	Income

Building Cost Detail - Building 1 of 6

Total Gross Building Area	51,929
Replace, Cost New Less Depr	3,841,660
Percent Complete	100
Number of Identical Units	1
Economic Condition Factor	
Final Building Value	3,841,660
Value per SF	73.98

Notes - Building 1 of 6

Income Summary (Includes all Building on Parcel)

Total Net Income	1,065,236
Capitalization Rate	0.100000
Sub total	10,652,360
Residual Land Value	1,302,300
Final Income Value	11,954,660
Total Gross Rent Area	242,376
Total Gross Building Area	243,151

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COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 240 ORAL SCHOOL RD	Map ID: 261906388923 E	Class: State Of Connecticut	Card: 2 of 6	Printed: October 15, 2012

CURRENT OWNER

CONNECTICUT STATE OF
MYSTIC ORAL SCHOOL
9 ORAL SCHOOL RD
MYSTIC CT 06355

GENERAL INFORMATION

Living Units	
Neighborhood	3010
Alternate Id	164038000
Vol / Pg	90/426
District	5
Zoning	RU-80
Class	COMMERCIAL

Property Notes

Land Information

Type		Size	Influence Factors	Influence %	Value
Primary	AC	5.0000			750,000
Excess	AC	86.8200			1,302,300
Waste	AC	10.0000			10,000

Total Acres: 101.82
Spot:
Location: 6 Neighborhood or Spot

Assessment Information

	Assessed	Appraised	Cost	Income	Market
Land	1,443,610	2,062,300	2,062,300	0	0
Building	9,996,560	14,280,800	14,280,800	0	0
Total	11,440,170	16,343,100	16,343,100	0	0

Manual Override Reason
Base Date of Value 01-OCT-2011
Value Flag COST SUPPRESS INCC Effective Date of Value 01-OCT-2011
Gross Building:

Entrance Information

Date	ID	Entry Code	Source
05/09/01	BF	Entry & Sign	Other

Permit Information

Date Issued	Number	Price	Purpose	% Complete

Sales/Ownership History

Transfer Date	Price	Type	Validity	Deed Reference	Deed Type	Grantee

Inspection Witnessed By _____

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 240 ORAL SCHOOL RD	Parcel Id: 261906388923 E	Class: State Of Connecticut	Card: 2 of 6	Printed: October 15, 2012

Building Information

Year Built/Eff Year	1961 /
Building #	2
Structure Type	Warehouse
Identical Units	1
Total Units	1
Grade	B-
# Covered Parking	
# Uncovered Parking	
DBA	

Building Other Features

Line	Type	+/-	Meas1	Meas2	# Stops	Ident Units	Line	Type	+/-	Meas1	Meas2	# Stops	Ident Units
1	Enclosed Entry		7	4		1							
1	Enclosed Entry		1	28		1							

Interior/Exterior Information

Line	Level From - To		Int Fin	Area	Perim	Use Type	Wall Height	Ext Walls	Construction	Partitions	Heating	Cooling	Plumbing	Physical	Functional
1	01	01	100	3,350	234	Warehouse/ Lt Mf	20	Concrete Bl	Fire Resistant	Normal	None	None	None	2	2
2	01	01	100	4,378	308	Warehouse/ Lt Mf	12	Brick Venee	Fire Resistant	Normal	None	None	None	2	2

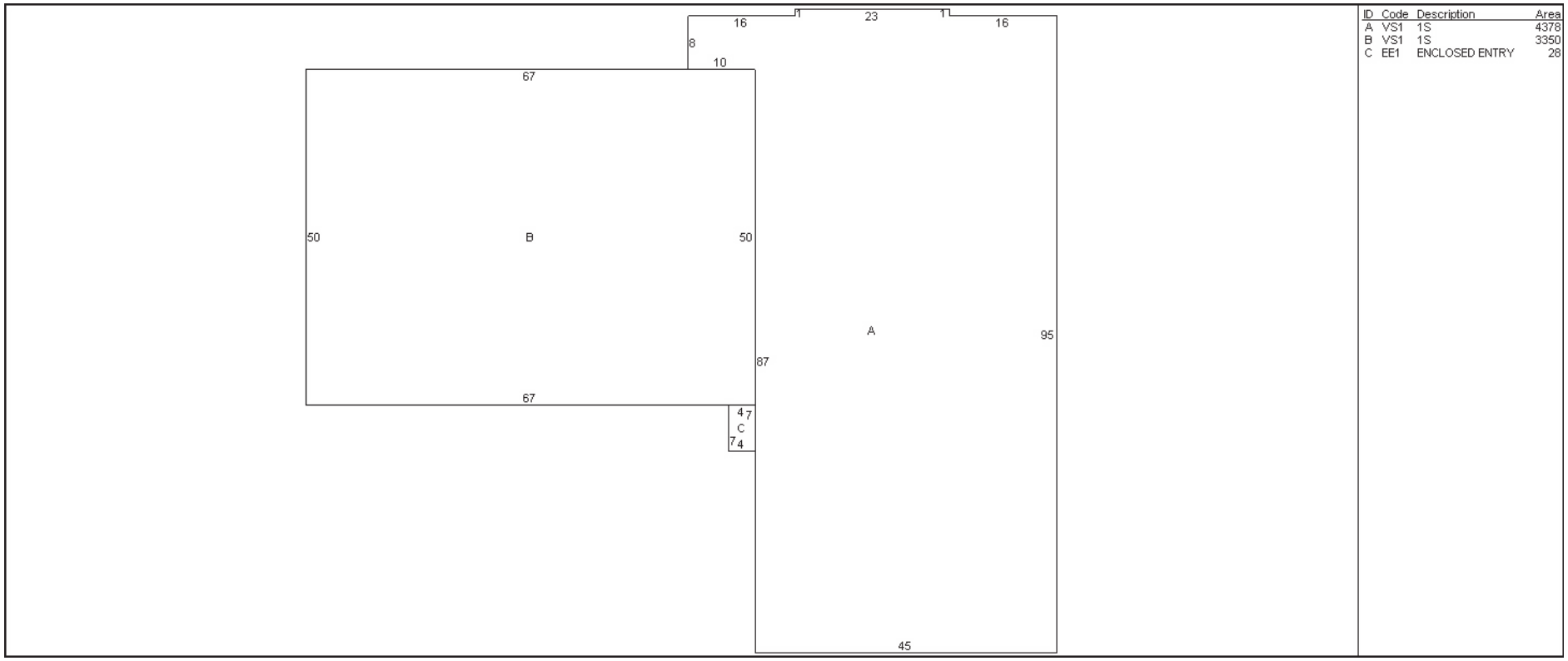
Interior/Exterior Valuation Detail

Line	Area	Use Type	% Good	% Complete	Use Value/RCNLD
1	3,350	Warehouse/ Lt Mfg	30		61,170
2	4,378	Warehouse/ Lt Mfg	30		67,990

Outbuilding Data

Line	Type	Yr Blt	Meas1	Meas2	Qty	Area	Grade	Phy Fun	Value

Situs : 240 ORAL SCHOOL RD	Parcel Id: 261906388923 E	Class: State Of Connecticut	Card: 2 of 6	Printed: October 15, 2012



ID	Code	Description	Area
A	VS1	1S	4378
B	VS1	1S	3350
C	EE1	ENCLOSED ENTRY	28

Addtional Property Photos

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 240 ORAL SCHOOL RD	Parcel Id: 261906388923 E	Class: State Of Connecticut	Card: 2 of 6	Printed: October 15, 2012

Income Detail (Includes all Buildings on Parcel)

Use Grp	Mod Type	Inc Mod	Model Description	Units	Net Area	Income Rate	Econ Adjust	Potential Gross Income	Vac Model	Vac Adj	Additional Income	Effective Gross Income	Expense Model %	Expense Adj %	Expense Adj	Other Expenses	Total Expenses	Net Operating Income
00	S	001	Support No Income	0	775						0							
01	A	001	Apartment	0	3,630				8		0		40					
03	S	002	Retail	0	2,541	13.00		33,033	8		0	30,390	25			7,598	7,598	22,792
04	S	002	Office	0	16,214	15.00		243,210	10		0	218,889	30			65,667	65,667	153,222
06	H	001	Hotel	0	25,788	100.00			35		0		80					
07	S	001	Light Manuf/Warehous	0	14,067	7.00		98,469	10		0	88,622	15			13,293	13,293	75,329
16	S	002	Restaurant	0	8,473	18.00		152,514	10		0	137,263	20			27,453	27,453	109,810
23	S	002	Multi Use Sales	0	6,321	10.00		63,210	10		0	56,889	30			17,067	17,067	39,822
24	S	002	Multi Use Office	0	79,263	12.00		951,156	5		0	903,598	30			271,079	271,079	632,519
25	S	001	Multi Use Storage	0	8,735	4.50		39,308	5		0	37,343	15			5,601	5,601	31,742

Apartment Detail - Building 2 of 6

Line	Use Type	Per Bldg	Beds	Baths	Units	Rent	Income

Building Cost Detail - Building 2 of 6

Total Gross Building Area	7,728
Replace, Cost New Less Depr	129,160
Percent Complete	100
Number of Identical Units	1
Economic Condition Factor	
Final Building Value	129,160
Value per SF	16.71

Notes - Building 2 of 6

Income Summary (Includes all Building on Parcel)

Total Net Income	1,065,236
Capitalization Rate	0.100000
Sub total	10,652,360
Residual Land Value	1,302,300
Final Income Value	11,954,660
Total Gross Rent Area	242,376
Total Gross Building Area	243,151

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 240 ORAL SCHOOL RD	Map ID: 261906388923 E	Class: State Of Connecticut	Card: 3 of 6	Printed: October 15, 2012

CURRENT OWNER

CONNECTICUT STATE OF
MYSTIC ORAL SCHOOL
9 ORAL SCHOOL RD
MYSTIC CT 06355

GENERAL INFORMATION

Living Units	
Neighborhood	3010
Alternate Id	164038000
Vol / Pg	90/426
District	5
Zoning	RU-80
Class	COMMERCIAL

Property Notes

Land Information

Type		Size	Influence Factors	Influence %	Value
Primary	AC	5.0000			750,000
Excess	AC	86.8200			1,302,300
Waste	AC	10.0000			10,000

Total Acres: 101.82
Spot:
Location: 6 Neighborhood or Spot

Assessment Information

	Assessed	Appraised	Cost	Income	Market
Land	1,443,610	2,062,300	2,062,300	0	0
Building	9,996,560	14,280,800	14,280,800	0	0
Total	11,440,170	16,343,100	16,343,100	0	0

Manual Override Reason
Base Date of Value 01-OCT-2011
Value Flag COST SUPPRESS INCC Effective Date of Value 01-OCT-2011
Gross Building:

Entrance Information

Date	ID	Entry Code	Source
05/09/01	BF	Entry & Sign	Other

Permit Information

Date Issued	Number	Price	Purpose	% Complete

Sales/Ownership History

Transfer Date	Price	Type	Validity	Deed Reference	Deed Type	Grantee

Inspection Witnessed By _____

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 240 ORAL SCHOOL RD	Parcel Id: 261906388923 E	Class: State Of Connecticut	Card: 3 of 6	Printed: October 15, 2012

Building Information

Year Built/Eff Year	1961 /
Building #	3
Structure Type	School
Identical Units	1
Total Units	3
Grade	C+
# Covered Parking	
# Uncovered Parking	
DBA	

Building Other Features

Line	Type	+/-	Meas1	Meas2	# Stops	Ident Units	Line	Type	+/-	Meas1	Meas2	# Stops	Ident Units
1	Elevator Hydraulic Pasng	+	1,500	110	2	1							
5	Enclosed Entry		10	30		1							
1	Enclosed Entry		1	300		1							

Interior/Exterior Information

Line	Level From - To		Int Fin	Area	Perim	Use Type	Wall Height	Ext Walls	Construction	Partitions	Heating	Cooling	Plumbing	Physical	Functional
1	B1	B1	100	7,514	565	Support Area	8	None	Fire Resistant	Normal	Hot Water/St	None	Normal	3	3
2	01	01	100	7,514	565	Multi-Use Office	12	Brick Venee	Fire Resistant	Normal	Hot Water/St	None	Normal	3	3
3	02	03	100	7,514	565	Multi-Use Office	10	Brick Venee	Fire Resistant	Normal	Hot Water/St	None	Normal	3	3
4	B1	B1	100	3,630	263	Multi-Use Office	8	None	Fire Resistant	Normal	Hot Water/St	None	Normal	3	3
5	01	01	100	3,630	263	Multi-Use Office	12	Brick Venee	Fire Resistant	Normal	Hot Water/St	None	Normal	3	3
6	02	02	100	3,630	263	Multi-Use Apartme	10	Brick Venee	Fire Resistant	Normal	Hot Water/St	None	Normal	3	3
7	01	01	100	6,512	358	School	10	Brick Venee	Fire Resistant	Normal	Hot Water/St	None	Normal	3	3
8	02	02	100	6,512	358	School	10	Brick Venee	Fire Resistant	Normal	Hot Water/St	None	Normal	3	3

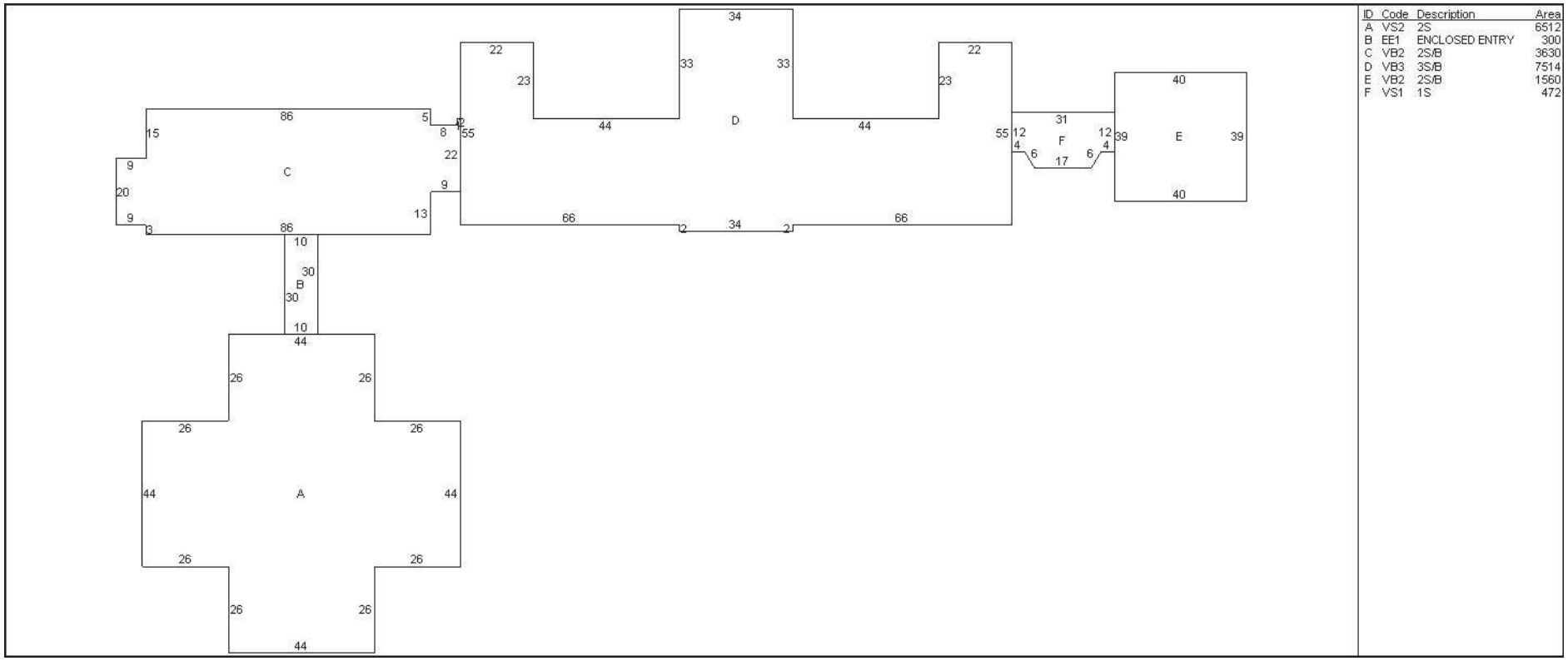
Interior/Exterior Valuation Detail

Line	Area	Use Type	% Good	% Complete	Use Value/RCNLD
1	7,514	Support Area	58		194,000
2	7,514	Multi-Use Office	58		501,300
3	7,514	Multi-Use Office	58		937,500
4	3,630	Multi-Use Office	58		173,880
5	3,630	Multi-Use Office	58		247,920
6	3,630	Multi-Use Apartment	58		192,180
7	6,512	School	58		455,600
8	6,512	School	58		444,260

Outbuilding Data

Line	Type	Yr Blt	Meas1	Meas2	Qty	Area	Grade	Phy	Fun	Value
1	Fence Stoc	1940	6	41	1	246	C	3	3	330
2	Fence Stoc	1940	6	24	1	144	C	3	3	190
3	Gar Fin At	1940	20	40	1	800	C	3	3	15,880
4	Gar - 1/2s	1940	34	40	1	1,360	C	3	3	31,020
5	Fence Chai	1940	3	37	9	111	C	3	3	1,840

Situs : 240 ORAL SCHOOL RD	Parcel Id: 261906388923 E	Class: State Of Connecticut	Card: 3 of 6	Printed: October 15, 2012



ID	Code	Description	Area
A	VS2	2S	6512
B	EE1	ENCLOSED ENTRY	300
C	VB2	2S/B	3630
D	VB3	3S/B	7514
E	VB2	2S/B	1560
F	VS1	1S	472

Addtional Property Photos

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COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 240 ORAL SCHOOL RD	Parcel Id: 261906388923 E	Class: State Of Connecticut	Card: 3 of 6	Printed: October 15, 2012

Income Detail (Includes all Buildings on Parcel)

Use Grp	Mod Type	Inc Mod	Model Description	Units	Net Area	Income Rate	Econ Adjust	Potential Gross Income	Vac Model	Vac Adj	Additional Income	Effective Gross Income	Expense Model %	Expense Adj %	Expense Adj	Other Expenses	Total Expenses	Net Operating Income
00	S	001	Support No Income	0	775						0							
01	A	001	Apartment	0	3,630				8		0		40					
03	S	002	Retail	0	2,541	13.00		33,033	8		0	30,390	25			7,598	7,598	22,792
04	S	002	Office	0	16,214	15.00		243,210	10		0	218,889	30			65,667	65,667	153,222
06	H	001	Hotel	0	25,788	100.00			35		0		80					
07	S	001	Light Manuf/Warehous	0	14,067	7.00		98,469	10		0	88,622	15			13,293	13,293	75,329
16	S	002	Restaurant	0	8,473	18.00		152,514	10		0	137,263	20			27,453	27,453	109,810
23	S	002	Multi Use Sales	0	6,321	10.00		63,210	10		0	56,889	30			17,067	17,067	39,822
24	S	002	Multi Use Office	0	79,263	12.00		951,156	5		0	903,598	30			271,079	271,079	632,519
25	S	001	Multi Use Storage	0	8,735	4.50		39,308	5		0	37,343	15			5,601	5,601	31,742

Apartment Detail - Building 3 of 6

Line	Use Type	Per Bldg	Beds	Baths	Units	Rent	Income

Building Cost Detail - Building 3 of 6

Total Gross Building Area	53,970
Replace, Cost New Less Depr	3,146,640
Percent Complete	100
Number of Identical Units	1
Economic Condition Factor	
Final Building Value	3,146,640
Value per SF	58.30

Notes - Building 3 of 6

Income Summary (Includes all Building on Parcel)

Total Net Income	1,065,236
Capitalization Rate	0.100000
Sub total	10,652,360
Residual Land Value	1,302,300
Final Income Value	11,954,660
Total Gross Rent Area	242,376
Total Gross Building Area	243,151

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 240 ORAL SCHOOL RD	Map ID: 261906388923 E	Class: State Of Connecticut	Card: 4 of 6	Printed: October 15, 2012

CURRENT OWNER

CONNECTICUT STATE OF
MYSTIC ORAL SCHOOL
9 ORAL SCHOOL RD
MYSTIC CT 06355

GENERAL INFORMATION

Living Units	
Neighborhood	3010
Alternate Id	164038000
Vol / Pg	90/426
District	5
Zoning	RU-80
Class	COMMERCIAL

Property Notes

Land Information

Type		Size	Influence Factors	Influence %	Value
Primary	AC	5.0000			750,000
Excess	AC	86.8200			1,302,300
Waste	AC	10.0000			10,000

Total Acres: 101.82
Spot:
Location: 6 Neighborhood or Spot

Assessment Information

	Assessed	Appraised	Cost	Income	Market
Land	1,443,610	2,062,300	2,062,300	0	0
Building	9,996,560	14,280,800	14,280,800	0	0
Total	11,440,170	16,343,100	16,343,100	0	0

Manual Override Reason
Base Date of Value 01-OCT-2011
Value Flag COST SUPPRESS INCC Effective Date of Value 01-OCT-2011
Gross Building:

Entrance Information

Date	ID	Entry Code	Source
05/09/01	BF	Entry & Sign	Other

Permit Information

Date Issued	Number	Price	Purpose	% Complete

Sales/Ownership History

Transfer Date	Price	Type	Validity	Deed Reference	Deed Type	Grantee

Inspection Witnessed By _____

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 240 ORAL SCHOOL RD	Parcel Id: 261906388923 E	Class: State Of Connecticut	Card: 4 of 6	Printed: October 15, 2012

Building Information

Year Built/Eff Year	1961 /
Building #	4
Structure Type	School
Identical Units	1
Total Units	2
Grade	C+
# Covered Parking	
# Uncovered Parking	
DBA	

Building Other Features

Line	Type	+/-	Meas1	Meas2	# Stops	Ident Units	Line	Type	+/-	Meas1	Meas2	# Stops	Ident Units
1	Elevator Hydraulic Pasng	+	1,000	40	3	1							
1	Elevator Hydraulic Pasng	+	2,500	125	4	1							
1	Overhead Dr-Wood/Mtl		6	8		1							
3	Canopy Roof/Slab		77	1		1							
7	Patio, Concrete		77	1		1							
1	Porch, Open Mas		1	180		3							
1	Canopy Roof/Slab		56	1		1							

Interior/Exterior Information

Line	Level From - To		Int Fin	Area	Perim	Use Type	Wall Height	Ext Walls	Construction	Partitions	Heating	Cooling	Plumbing	Physical	Functional
1	B1	B1	100	8,735	467	Multi-Use Storage	8	None	Fire Resistant	Normal	Hot Water/St	None	Normal	3	3
2	B1	B1	100	3,516	210	School	8	None	Fire Resistant	Normal	Hot Water/St	None	Normal	3	3
3	01	01	100	5,356	326	Cafeteria	12	Brick Venee	Fire Resistant	Normal	Hot Water/St	None	Normal	3	3
4	01	01	100	19,971	482	Multi-Use Office	12	Brick Venee	Fire Resistant	Normal	Hot Water/St	None	Normal	3	3
5	02	02	100	2,840	222	Multi-Use Office	10	Brick Venee	Fire Resistant	Normal	Hot Water/St	None	Normal	3	3
6	02	02	100	16,439	306	Multi-Use Office	10	Brick Venee	Fire Resistant	Normal	Hot Water/St	None	Normal	3	3
7	03	03	100	8,540	248	Multi-Use Office	10	Brick Venee	Fire Resistant	Normal	Hot Water/St	None	Normal	3	3
8	B1	B1	100	6,339	383	Small Manufacturir	8	None	Fire Resistant	Normal	Hot Water/St	Central	Normal	5	3

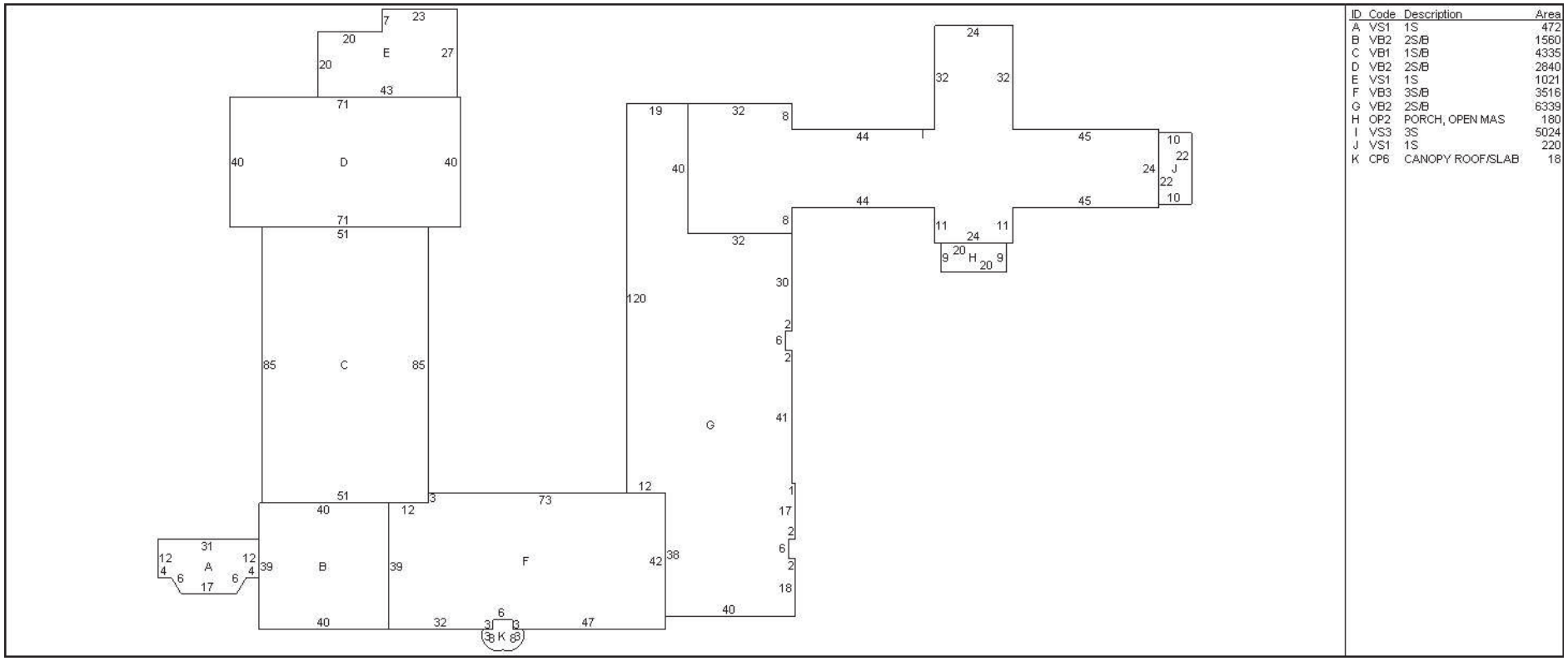
Interior/Exterior Valuation Detail

Line	Area	Use Type	% Good	% Complete	Use Value/RCNLD
1	8,735	Multi-Use Storage	58		238,100
2	3,516	School	58		201,150
3	5,356	Cafeteria	58		351,920
4	19,971	Multi-Use Office	58		1,121,510
5	2,840	Multi-Use Office	58		178,640
6	16,439	Multi-Use Office	58		865,370
7	8,540	Multi-Use Office	58		465,100
8	6,339	Small Manufacturing	61		177,750

Outbuilding Data

Line	Type	Yr Blt	Meas1	Meas2	Qty	Area	Grade	Phy Fun	Value

Situs : 240 ORAL SCHOOL RD	Parcel Id: 261906388923 E	Class: State Of Connecticut	Card: 4 of 6	Printed: October 15, 2012



ID	Code	Description	Area
A	VS1	1S	472
B	VB2	2S/B	1560
C	VB1	1S/B	4335
D	VB2	2S/B	2840
E	VS1	1S	1021
F	VB3	3S/B	3516
G	VB2	2S/B	6339
H	OP2	PORCH, OPEN MAS	180
I	VS3	3S	5024
J	VS1	1S	220
K	CP6	CANOPY ROOF/SLAB	18

Addtional Property Photos

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 240 ORAL SCHOOL RD	Parcel Id: 261906388923 E	Class: State Of Connecticut	Card: 4 of 6	Printed: October 15, 2012

Income Detail (Includes all Buildings on Parcel)

Use Grp	Mod Type	Inc Mod	Model Description	Units	Net Area	Income Rate	Econ Adjust	Potential Gross Income	Vac Model	Vac Adj	Additional Income	Effective Gross Income	Expense Model %	Expense Adj %	Expense Adj	Other Expenses	Total Expenses	Net Operating Income
00	S	001	Support No Income	0	775						0							
01	A	001	Apartment	0	3,630				8		0		40					
03	S	002	Retail	0	2,541	13.00		33,033	8		0	30,390	25			7,598	7,598	22,792
04	S	002	Office	0	16,214	15.00		243,210	10		0	218,889	30			65,667	65,667	153,222
06	H	001	Hotel	0	25,788	100.00			35		0		80					
07	S	001	Light Manuf/Warehous	0	14,067	7.00		98,469	10		0	88,622	15			13,293	13,293	75,329
16	S	002	Restaurant	0	8,473	18.00		152,514	10		0	137,263	20			27,453	27,453	109,810
23	S	002	Multi Use Sales	0	6,321	10.00		63,210	10		0	56,889	30			17,067	17,067	39,822
24	S	002	Multi Use Office	0	79,263	12.00		951,156	5		0	903,598	30			271,079	271,079	632,519
25	S	001	Multi Use Storage	0	8,735	4.50		39,308	5		0	37,343	15			5,601	5,601	31,742

Apartment Detail - Building 4 of 6

Line	Use Type	Per Bldg	Beds	Baths	Units	Rent	Income

Building Cost Detail - Building 4 of 6

Total Gross Building Area	71,736
Replace, Cost New Less Depr	3,599,540
Percent Complete	100
Number of Identical Units	1
Economic Condition Factor	
Final Building Value	3,599,540
Value per SF	50.18

Notes - Building 4 of 6

Income Summary (Includes all Building on Parcel)

Total Net Income	1,065,236
Capitalization Rate	0.100000
Sub total	10,652,360
Residual Land Value	1,302,300
Final Income Value	11,954,660
Total Gross Rent Area	242,376
Total Gross Building Area	243,151

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 240 ORAL SCHOOL RD	Map ID: 261906388923 E	Class: State Of Connecticut	Card: 5 of 6	Printed: October 15, 2012

CURRENT OWNER

CONNECTICUT STATE OF
MYSTIC ORAL SCHOOL
9 ORAL SCHOOL RD
MYSTIC CT 06355

GENERAL INFORMATION

Living Units	
Neighborhood	3010
Alternate Id	164038000
Vol / Pg	90/426
District	5
Zoning	RU-80
Class	COMMERCIAL

Property Notes

Land Information

Type		Size	Influence Factors	Influence %	Value
Primary	AC	5.0000			750,000
Excess	AC	86.8200			1,302,300
Waste	AC	10.0000			10,000

Total Acres: 101.82
Spot:
Location: 6 Neighborhood or Spot

Assessment Information

	Assessed	Appraised	Cost	Income	Market
Land	1,443,610	2,062,300	2,062,300	0	0
Building	9,996,560	14,280,800	14,280,800	0	0
Total	11,440,170	16,343,100	16,343,100	0	0

Manual Override Reason
Base Date of Value 01-OCT-2011
Value Flag COST SUPPRESS INCC Effective Date of Value 01-OCT-2011
Gross Building:

Entrance Information

Date	ID	Entry Code	Source
05/09/01	BF	Entry & Sign	Other

Permit Information

Date Issued	Number	Price	Purpose	% Complete

Sales/Ownership History

Transfer Date	Price	Type	Validity	Deed Reference	Deed Type	Grantee

Inspection Witnessed By _____

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 240 ORAL SCHOOL RD	Parcel Id: 261906388923 E	Class: State Of Connecticut	Card: 5 of 6	Printed: October 15, 2012

Building Information

Year Built/Eff Year	1930 /
Building #	5
Structure Type	Res-1 Family
Identical Units	1
Total Units	1
Grade	B-
# Covered Parking	
# Uncovered Parking	
DBA	

Building Other Features

Line	Type	+/-	Meas1	Meas2	# Stops	Ident Units	Line	Type	+/-	Meas1	Meas2	# Stops	Ident Units
2	Porch, Enclosed		5	8		1							
2	Porch Covered		80	1		1							
1	Porch, Enclosed		1	40		1							
1	Porch, Open		1	80		1							

Interior/Exterior Information

Line	Level From - To		Int Fin	Area	Perim	Use Type	Wall Height	Ext Walls	Construction	Partitions	Heating	Cooling	Plumbing	Physical	Functional
1	B1	B1	100	1,134	138	Unfinished Res Bs	8	None	Wood Frame/Joist/B	Normal	None	None	Normal	3	3
2	01	01	100	1,407	158	Dwelling	10	Brick Venee	Wood Frame/Joist/B	Normal	Hot Water/St	None	Normal	3	3
3	02	02	100	1,134	138	Dwelling	10	Brick Venee	Wood Frame/Joist/B	Normal	Hot Water/St	Central	Normal	3	3
4	A1	A1	100	1,134	138	Support Area	7	Brick Venee	Wood Frame/Joist/B	Normal	None	None	None	2	2

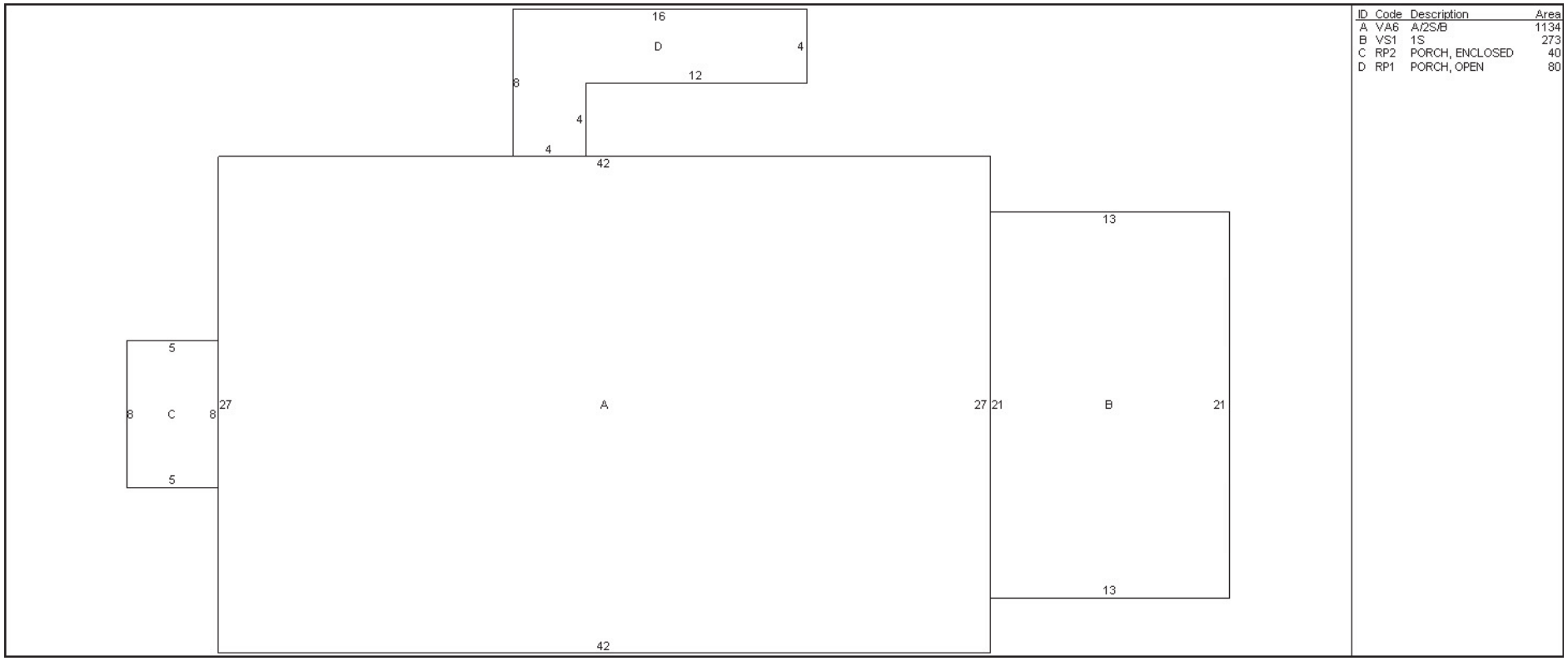
Interior/Exterior Valuation Detail

Line	Area	Use Type	% Good	% Complete	Use Value/RCNLD
1	1,134	Unfinished Res Bsmt	76		22,080
2	1,407	Dwelling	76		112,660
3	1,134	Dwelling	76		94,110
4	1,134	Support Area	44		11,870

Outbuilding Data

Line	Type	Yr Blt	Meas1	Meas2	Qty	Area	Grade	Phy	Fun	Value
1	Gar Fin At	1930	44	22	1	968	C	2	3	12,810

Situs : 240 ORAL SCHOOL RD	Parcel Id: 261906388923 E	Class: State Of Connecticut	Card: 5 of 6	Printed: October 15, 2012



ID	Code	Description	Area
A	VA6	A/2S/B	1134
B	VS1	1S	273
C	RP2	PORCH, ENCLOSED	40
D	RP1	PORCH, OPEN	80

Addtional Property Photos

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 240 ORAL SCHOOL RD	Parcel Id: 261906388923 E	Class: State Of Connecticut	Card: 5 of 6	Printed: October 15, 2012

Income Detail (Includes all Buildings on Parcel)

Use Grp	Mod Type	Inc Mod	Model Description	Units	Net Area	Income Rate	Econ Adjust	Potential Gross Income	Vac Model	Vac Adj	Additional Income	Effective Gross Income	Expense Model %	Expense Adj %	Expense Adj	Other Expenses	Total Expenses	Net Operating Income
00	S	001	Support No Income	0	775						0							
01	A	001	Apartment	0	3,630				8		0		40					
03	S	002	Retail	0	2,541	13.00		33,033	8		0	30,390	25			7,598	7,598	22,792
04	S	002	Office	0	16,214	15.00		243,210	10		0	218,889	30			65,667	65,667	153,222
06	H	001	Hotel	0	25,788	100.00			35		0		80					
07	S	001	Light Manuf/Warehous	0	14,067	7.00		98,469	10		0	88,622	15			13,293	13,293	75,329
16	S	002	Restaurant	0	8,473	18.00		152,514	10		0	137,263	20			27,453	27,453	109,810
23	S	002	Multi Use Sales	0	6,321	10.00		63,210	10		0	56,889	30			17,067	17,067	39,822
24	S	002	Multi Use Office	0	79,263	12.00		951,156	5		0	903,598	30			271,079	271,079	632,519
25	S	001	Multi Use Storage	0	8,735	4.50		39,308	5		0	37,343	15			5,601	5,601	31,742

Apartment Detail - Building 5 of 6

Line	Use Type	Per Bldg	Beds	Baths	Units	Rent	Income

Building Cost Detail - Building 5 of 6

Total Gross Building Area	4,809
Replace, Cost New Less Depr	240,720
Percent Complete	100
Number of Identical Units	1
Economic Condition Factor	
Final Building Value	240,720
Value per SF	50.06

Notes - Building 5 of 6

Income Summary (Includes all Building on Parcel)

Total Net Income	1,065,236
Capitalization Rate	0.100000
Sub total	10,652,360
Residual Land Value	1,302,300
Final Income Value	11,954,660
Total Gross Rent Area	242,376
Total Gross Building Area	243,151

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 240 ORAL SCHOOL RD	Map ID: 261906388923 E	Class: State Of Connecticut	Card: 6 of 6	Printed: October 15, 2012

CURRENT OWNER

CONNECTICUT STATE OF
MYSTIC ORAL SCHOOL
9 ORAL SCHOOL RD
MYSTIC CT 06355

GENERAL INFORMATION

Living Units	
Neighborhood	3010
Alternate Id	164038000
Vol / Pg	90/426
District	5
Zoning	RU-80
Class	COMMERCIAL

Property Notes

Land Information

Type		Size	Influence Factors	Influence %	Value
Primary	AC	5.0000			750,000
Excess	AC	86.8200			1,302,300
Waste	AC	10.0000			10,000

Total Acres: 101.82
Spot:
Location: 6 Neighborhood or Spot

Assessment Information

	Assessed	Appraised	Cost	Income	Market
Land	1,443,610	2,062,300	2,062,300	0	0
Building	9,996,560	14,280,800	14,280,800	0	0
Total	11,440,170	16,343,100	16,343,100	0	0

Manual Override Reason
Base Date of Value 01-OCT-2011
Value Flag COST SUPPRESS INCC Effective Date of Value 01-OCT-2011
Gross Building:

Entrance Information

Date	ID	Entry Code	Source
05/09/01	BF	Entry & Sign	Other

Permit Information

Date Issued	Number	Price	Purpose	% Complete

Sales/Ownership History

Transfer Date	Price	Type	Validity	Deed Reference	Deed Type	Grantee

Inspection Witnessed By _____

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 240 ORAL SCHOOL RD	Parcel Id: 261906388923 E	Class: State Of Connecticut	Card: 6 of 6	Printed: October 15, 2012

Building Information

Year Built/Eff Year	1976 /
Building #	6
Structure Type	School
Identical Units	1
Total Units	1
Grade	C+
# Covered Parking	
# Uncovered Parking	
DBA	

Building Other Features

Line	Type	+/-	Meas1	Meas2	# Stops	Ident Units
1	Load Dock,St Or Conc		17	20		1
2	Elevator Hydraulic Pasng	+	3,500	100	3	1
2	Canopy Roof/Slab		6	14		2
2	Canopy Roof/Slab		9	69		1
1	Canopy Roof/Slab		1	666		1
1	Canopy Roof/Slab		1	84		1
1	Canopy Roof/Slab		1	84		1

Line	Type	+/-	Meas1	Meas2	# Stops	Ident Units
1	Load Dock,St Or Conc		1	340		1

Interior/Exterior Information

Line	Level From - To		Int Fin	Area	Perim	Use Type	Wall Height	Ext Walls	Construction	Partitions	Heating	Cooling	Plumbing	Physical	Functional
1	01	01	100	7,304	407	School	30	Brick Venee	Fire Resistant	Normal	Hot Water/St	None	Normal	2	2
2	02	02	100	6,236	439	Dormitory	8	Brick Venee	Fire Resistant	Normal	Hot Water/St	None	Normal	3	3
3	01	01	100	3,117	136	Cafeteria	14	Brick Venee	Fire Resistant	Normal	Hot Water/St	Central	Normal	4	4
4	B1	B1	100	1,671	178	Multi-Use Office	10	None	Fire Resistant	Normal	Hot Water/St	Central	Normal	3	3
5	B1	B1	100	15,099	587	School	10	None	Fire Resistant	Normal	Hot Water/St	None	Normal	1	1
6	01	01	100	11,006	404	Dormitory	10	Brick Venee	Fire Resistant	Normal	Hot Water/St	Central	Normal	4	4
7	01	01	100	8,546	367	Dormitory	10	Brick Venee	Fire Resistant	Normal	Hot Water/St	None	Normal	2	3

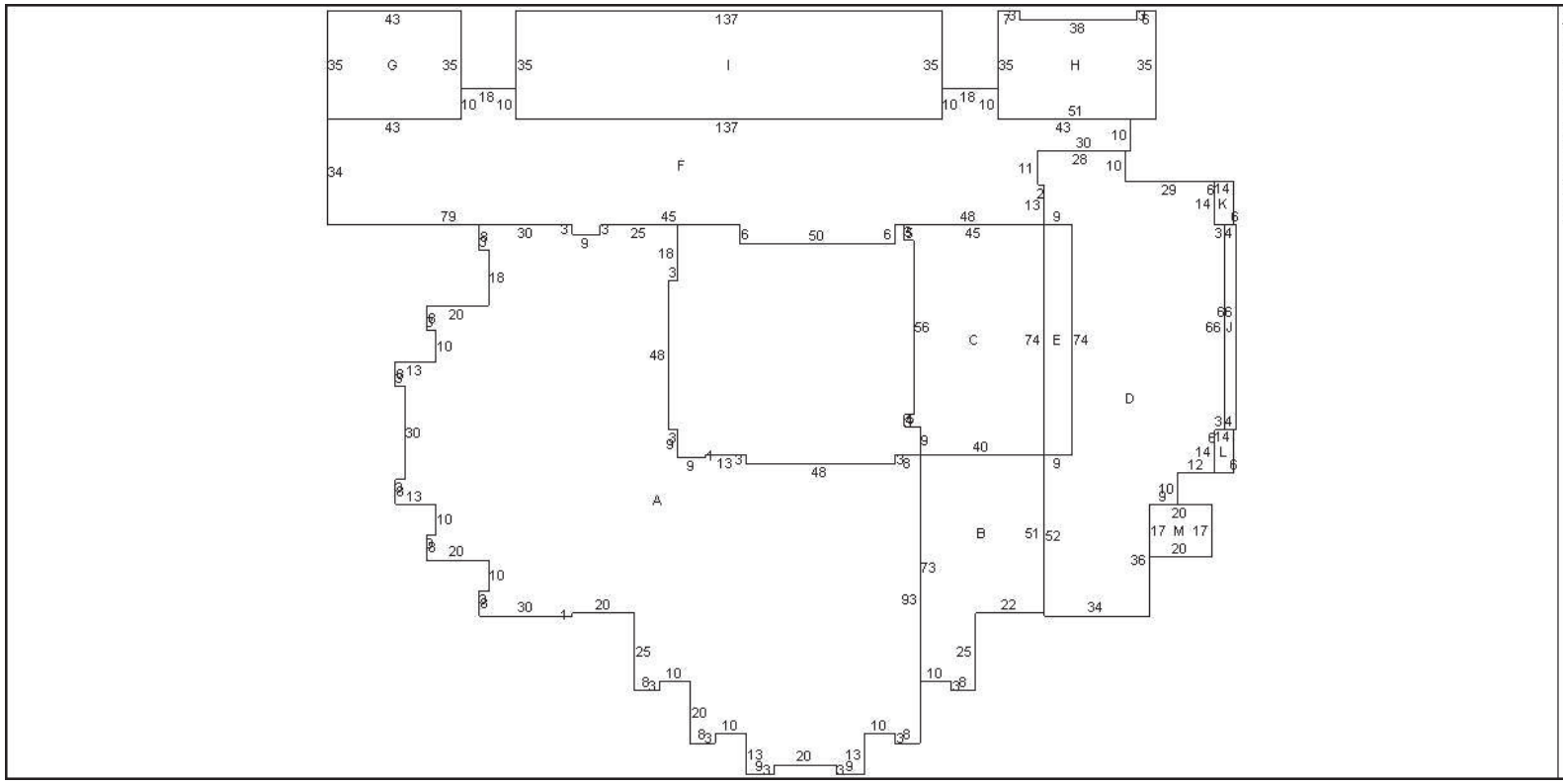
Interior/Exterior Valuation Detail

Line	Area	Use Type	% Good	% Complete	Use Value/RCNLD
1	7,304	School	57		655,910
2	6,236	Dormitory	71		493,120
3	3,117	Cafeteria	74		268,520
4	1,671	Multi-Use Office	71		107,030
5	15,099	School	14		208,510
6	11,006	Dormitory	74		905,210
7	8,546	Dormitory	67		613,210

Outbuilding Data

Line	Type	Yr Blt	Meas1	Meas2	Qty	Area	Grade	Phy Fun	Value

Situs : 240 ORAL SCHOOL RD	Parcel Id: 261906388923 E	Class: State Of Connecticut	Card: 6 of 6	Printed: October 15, 2012



ID	Code	Description	Area
A	VS1	1S	17092
B	VS1	1S	2460
C	VS1	1S	3117
D	VS2	2S	6638
E	CP6	CANOPY ROOF/SLAB	666
F	VB0	BSMT	8799
G	VS1	1S	1505
H	VS1	1S	1671
I	VS1	1S	4795
J	VS1	1S	264
K	CP6	CANOPY ROOF/SLAB	84
L	CP6	CANOPY ROOF/SLAB	84
M	LD1	LOAD DOCK,ST OR CONC	340

Addtional Property Photos

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 240 ORAL SCHOOL RD	Parcel Id: 261906388923 E	Class: State Of Connecticut	Card: 6 of 6	Printed: October 15, 2012

Income Detail (Includes all Buildings on Parcel)

Use Grp	Mod Type	Inc Mod	Model Description	Units	Net Area	Income Rate	Econ Adjust	Potential Gross Income	Vac Model	Vac Adj	Additional Income	Effective Gross Income	Expense Model %	Expense Adj %	Expense Adj	Other Expenses	Total Expenses	Net Operating Income
00	S	001	Support No Income	0	775						0							
01	A	001	Apartment	0	3,630				8		0		40					
03	S	002	Retail	0	2,541	13.00		33,033	8		0	30,390	25			7,598	7,598	22,792
04	S	002	Office	0	16,214	15.00		243,210	10		0	218,889	30			65,667	65,667	153,222
06	H	001	Hotel	0	25,788	100.00			35		0		80					
07	S	001	Light Manuf/Warehous	0	14,067	7.00		98,469	10		0	88,622	15			13,293	13,293	75,329
16	S	002	Restaurant	0	8,473	18.00		152,514	10		0	137,263	20			27,453	27,453	109,810
23	S	002	Multi Use Sales	0	6,321	10.00		63,210	10		0	56,889	30			17,067	17,067	39,822
24	S	002	Multi Use Office	0	79,263	12.00		951,156	5		0	903,598	30			271,079	271,079	632,519
25	S	001	Multi Use Storage	0	8,735	4.50		39,308	5		0	37,343	15			5,601	5,601	31,742

Apartment Detail - Building 6 of 6

Line	Use Type	Per Bldg	Beds	Baths	Units	Rent	Income

Building Cost Detail - Building 6 of 6

Total Gross Building Area	52,979
Replace, Cost New Less Depr	3,251,510
Percent Complete	100
Number of Identical Units	1
Economic Condition Factor	
Final Building Value	3,251,510
Value per SF	61.37

Notes - Building 6 of 6

Income Summary (Includes all Building on Parcel)

Total Net Income	1,065,236
Capitalization Rate	0.100000
Sub total	10,652,360
Residual Land Value	1,302,300
Final Income Value	11,954,660
Total Gross Rent Area	242,376
Total Gross Building Area	243,151

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 0 ORAL SCHOOL RD	Map ID: 261906297210 E	Class: State Of Connecticut	Card: 1 of 1	Printed: October 15, 2012

CURRENT OWNER

CONNECTICUT STATE OF
MYSTIC ORAL SCHOOL
ORAL SCHOOL RD
MYSTIC CT 06355

GENERAL INFORMATION

Living Units	
Neighborhood	3010
Alternate Id	164031000
Vol / Pg	64/400
District	5
Zoning	RU-20
Class	COMMERCIAL

Property Notes

Land Information

Type		Size	Influence Factors	Influence %	Value
Primary	AC	1.0000			150,000
Excess	AC	6.8900			103,350

Total Acres: 7.89
Spot:
Location: 6 Neighborhood or Spot

Assessment Information

	Assessed	Appraised	Cost	Income	Market
Land	177,380	253,400	253,400	253,400	0
Building	12,180	17,400	17,400	-150,000	0
Total	189,560	270,800	270,800	103,400	0

Manual Override Reason
Base Date of Value 01-OCT-2011
Value Flag COST APPROACH
Effective Date of Value 01-OCT-2011
Gross Building:

Entrance Information

Date	ID	Entry Code	Source
05/09/01	BF	No Info	Other

Permit Information

Date Issued	Number	Price	Purpose	% Complete

Sales/Ownership History

Transfer Date	Price	Type	Validity	Deed Reference	Deed Type	Grantee

Inspection Witnessed By _____

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 0 ORAL SCHOOL RD	Parcel Id: 261906297210 E	Class: State Of Connecticut	Card: 1 of 1	Printed: October 15, 2012

Building Information

Year Built/Eff Year	1900 /
Building #	1
Structure Type	Res-1 Family
Identical Units	1
Total Units	1
Grade	C
# Covered Parking	
# Uncovered Parking	22
DBA	

Building Other Features

Line	Type	+/-	Meas1	Meas2	# Stops	Ident Units	Line	Type	+/-	Meas1	Meas2	# Stops	Ident Units

Interior/Exterior Information

Line	Level From - To	Int Fin	Area	Perim	Use Type	Wall Height	Ext Walls	Construction	Partitions	Heating	Cooling	Plumbing	Physical	Functional
1	01 01		800	134	Support Area	8	Frame	Wood Frame/Joist/B	Normal	None	None	None	1	1
2	02 02		518	134	Support Area	7	Frame	Wood Frame/Joist/B	Normal	None	None	None	1	1

Interior/Exterior Valuation Detail

Line	Area	Use Type	% Good	% Complete	Use Value/RCNLD
1	800	Support Area	25		8,040
2	518	Support Area	25		5,930

Outbuilding Data

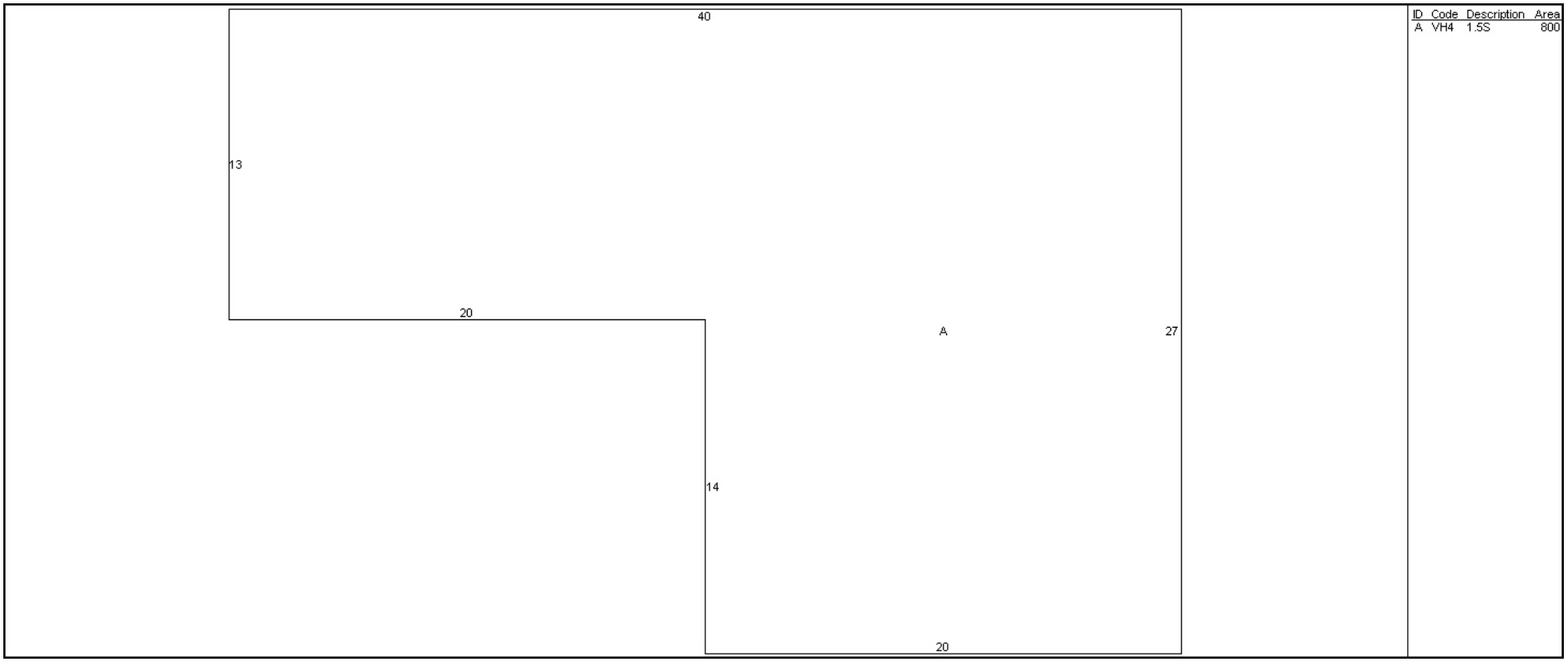
Line	Type	Yr Blt	Meas1	Meas2	Qty	Area	Grade	Phy	Fun	Value
1	Asph Pav	1980	1	6,600	1	6,600	C	3	3	3,470

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 0 ORAL SCHOOL RD	Parcel Id: 261906297210 E	Class: State Of Connecticut	Card: 1 of 1	Printed: October 15, 2012



ID	Code	Description	Area
A	VH4	1.5S	800

Addtional Property Photos

tyler clt division

COMMERCIAL PROPERTY RECORD CARD 2012

TOWN OF GROTON

Situs : 0 ORAL SCHOOL RD	Parcel Id: 261906297210 E	Class: State Of Connecticut	Card: 1 of 1	Printed: October 15, 2012

Income Detail (Includes all Buildings on Parcel)

Use Grp	Mod Type	Inc Mod	Model Description	Units	Net Area	Income Rate	Econ Adjust	Potential Gross Income	Vac Model	Vac Adj	Additional Income	Effective Gross Income	Expense Model %	Expense Adj %	Expense Adj	Other Expenses	Total Expenses	Net Operating Income
00	S	001	Support No Income	0	13						0							

Apartment Detail - Building 1 of 1

Line	Use Type	Per Bldg	Beds	Baths	Units	Rent	Income

Building Cost Detail - Building 1 of 1

Total Gross Building Area	1,318
Replace, Cost New Less Depr	13,970
Percent Complete	100
Number of Identical Units	1
Economic Condition Factor	
Final Building Value	13,970
Value per SF	10.60

Notes - Building 1 of 1

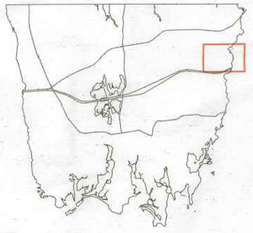
Income Summary (Includes all Building on Parcel)

Total Net Income	
Capitalization Rate	0.102000
Sub total	
Residual Land Value	103,350
Final Income Value	103,350
Total Gross Rent Area	1,305
Total Gross Building Area	1,318

Town of Groton Connecticut
Geographic Information System

Mystic Educational Center & Mystic Community Center O.S.

Oral School Road and River Road



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0 685

Scale: 1 Inch to 200 Feet

PLANIMETRIC AND TOPOGRAPHIC INFORMATION SHOWN ON THIS MAP WAS PREPARED THROUGH THE USE OF PHOTOGRAMMETRIC METHODS FROM PHOTOGRAPHY DATED MAY 1990. THIS INFORMATION MEETS NATIONAL MAP ACCURACY STANDARDS. REAL PROPERTY IS COMPILED FROM RECORDED DEEDS, PLATS, AND OTHER PUBLIC RECORDS AND DATA. USERS OF THIS MAP ARE HEREBY NOTIFIED THAT THE AFOREMENTIONED PUBLIC PRIMARY INFORMATION SOURCES SHOULD BE CONSULTED FOR VERIFICATION OF THE INFORMATION CONTAINED ON THIS MAP. THE TOWN AND THE MAPPING COMPANIES ASSUME NO LEGAL RESPONSIBILITY FOR THE INFORMATION CONTAINED ON THIS MAP.

DATUM: CONNECTICUT 1983 NORTH AMERICAN DATUM. VERTICAL DATUM 1929 NATIONAL GEODETIC ADJUSTMENT

Town Of Groton Geographic Information System

11/07/94 planning

Paul Duarte

G:\AUTOCAD\PROJECTS\18HA301-MYSTIC\REF\SCANS REQUESTED BY DNS\MYSTIC EDUCATIONAL_COMMUNITY CENTERS OS-1994_11-07.DWG Tab: image 01 Last Saved : 1/22/2013 10:42 AM Plotted: 1/22/2013 10:42 AM

TOWN OF GROTON
LAND USE APPLICATION
PART ONE

PLEASE CHECK THE APPROPRIATE LINE(S) AND ATTACH THE REQUIRED APPLICATION(S)

SEP 13 2002

SUBDIVISION OR RESUBDIVISION		COASTAL SITE PLAN REVIEW	
SITE PLAN		SPECIAL PERMIT	
ADMINISTRATIVE SITE PLAN	✓	ZONE CHANGE	
INLAND WETLANDS PERMIT		REGULATION AMENDMENT	
INLAND WETLANDS PERMIT OR NON REGULATED ACTIVITY		VARIANCE/APPEAL	
		APPROVAL OF LOCATION	

PROJECT DESCRIPTION: We want to Fill in around the Exist. House to Make the ground around the house Flater. See MAP 1

PROJECT NAME: OID Mystic Fire Dept Trainning Grounds

STREET ADDRESS OF PROPERTY: Oral School RD Mystic CONN 06355

IF ADDRESS NOT AVAILABLE, LOCATION:

PARCEL IDENTIFICATION NUMBER: ACREAGE: ZONING:

CORRESPONDENCE WILL BE SENT TO PRIMARY APPLICANT AS CHECKED BELOW:

NAMES, ADDRESSES & TELEPHONE NUMBERS

☒ APPLICANT OID Mystic Fire Dept.
295 Cowhill Rd TELEPHONE: 536-2220 FAX: 536-7811

(ww) ☒ APPLICANT'S AGENT (IF ANY): William T Knotts
295 Cowhill Rd TELEPHONE: 536-2220 FAX: 5367811

☐ OWNER/TRUSTEE:
TELEPHONE: FAX:

☐ ENGINEER/SURVEY OR / ARCHITECT:
TELEPHONE: FAX:

Note: 1) TO BE ACCEPTED BY THE PLANNING DIVISION, THIS ENTIRE APPLICATION MUST BE COMPLETED, SIGNED, AND SUBMITTED WITH THE REQUIRED FEE(S) AND MAP(S) PREPARED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS.

2) THE SUBMITTAL OF THIS APPLICATION CONSTITUTES THE PROPERTY OWNER'S PERMISSION FOR THE COMMISSION OR ITS STAFF TO ENTER THE PROPERTY FOR THE PURPOSE OF INSPECTION.

SIGNATURE OF APPLICANT OR APPLICANT'S AGENT — DATE 9/12/02

SIGNATURE OF RECORD OWNER — DATE 9-12-02

I HEREBY, CERTIFY THAT I AM THE OWNER OF THE PROPERTY STATED ABOVE.

William T Knotts
PRINTED NAME OF APPLICANT

Kenneth W. Richards Jr
PRINTED NAME OF RECORD OWNER

FOR OFFICE USE ONLY

FEE RECEIVED Waived — WORK TYPE — PROJECT # — PLANNER

6/02

TOWN OF GROTON
LAND USE APPLICATION - ADMINISTRATIVE SITE PLAN

6/02

SEP 13 2002

PART TWO
(Attach to Part One)

PLEASE DESCRIBE HOW THE USE/MODIFICATION AFFECTS SECTION 8.4-1 C. OF THE ZONING REGULATIONS WITH RESPECT TO ITS EFFECT ON THE INTENSITY OF THE EXISTING USE, THE EXISTING BUILDING FOOTPRINT, TRAFFIC CIRCULATION, PUBLIC SAFETY AND ITS IMPACT ON THE SURROUNDING AREA. We want to make a flater surface around the building. Please see to attach MAP # 1

I would like clearance around the house of 50 FT

FOR FILL /EXCAVATION APPPLICATIONS:

FILLING 500 CUBIC YARDS EXCAVATION _____ CUBIC YARDS

FOR SITE MODIFICATION OR ACCESSORY APARTMENT:

EXISTING FLOOR AREA (SQ FT) _____ NEW TOTAL FLOOR AREA (SQ FT) _____

EXISTING IMPERVIOUS SURFACE (SQ FT) _____

CHANGE IN IMPERVIOUS SURFACE (+ / - SQ FT) _____

FOR ALL APPLICATIONS: REGULATED WETLANDS ☐ Yes ☐ No
WETLAND APPLICATION SUBMITTED OR PERMIT ALREADY OBTAINED ☐ Yes ☐ No

(To be completed by Planning Division)

ACTION TAKEN BY ASSISTANT DIRECTOR OF PLANNING AND DEVELOPMENT:

X APPROVED ___ APPROVED WITH MODIFICATIONS

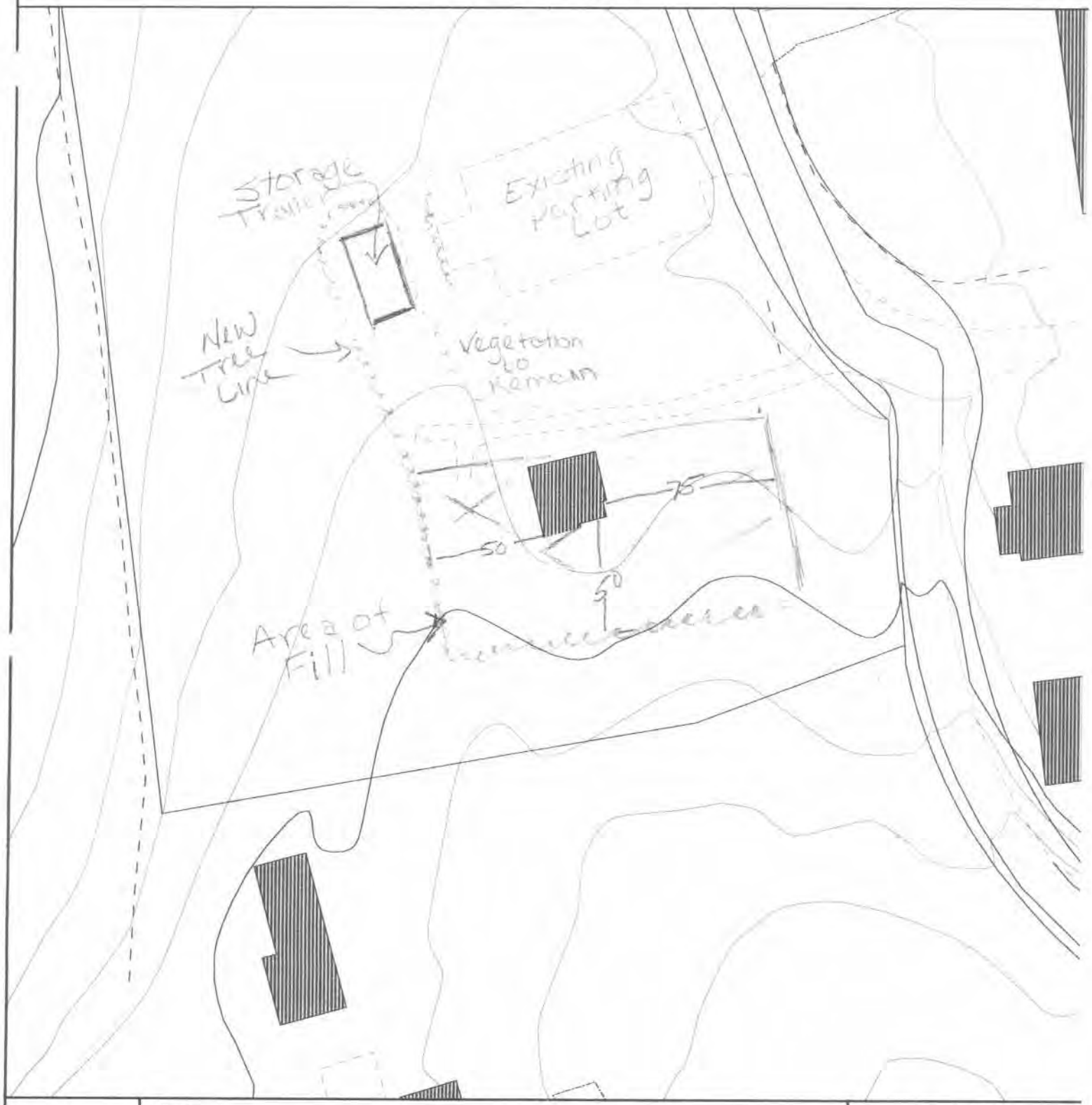
MODIFICATIONS (if any): _____

___ DENIED/ REASON(S) _____

Michael Nagy
Assistant Director of
Planning and Development

9-27-02
Date

Old M c Fire Department Training G nds
Oral School Road



N

0 60 Feet

Town of Groton Connecticut
Geographic Information System

Planimetric and topographic information shown on this map was prepared through the use of photogrammetric methods from photography dated May 1990. This information meets National Map Accuracy Standards. Real property is compiled from recorded deeds, plats, and other public records and data. Users of this map are hereby notified that the aforementioned public primary information sources should be consulted for verification of the information contained on this map. The Town and the mapping companies assume no legal responsibility for the information contained on this map.

The project involves the placement of 500 cubic yards of gravel around a structure on Oral School Road used for fire training. The fill will provide a flat, safe area around the building to facilitate training. A 40'x22' trailer will also be placed on site to store wood for training.

Construction Sequence

1. The edge of disturbance will be staked in the field prior to the start of work. The fill area shall be no greater than 50 feet from the west side of the structure, 50 feet from the south side of the structure and 75 feet from the east side of the structure. Erosion controls (either staked haybales or sediment fence) will be installed at the edge of disturbance per the attached details.

2. The Environmental Planner shall inspect the erosion controls prior to the start of work.

3. Vegetation will be removed to the edge of disturbance. The State Tree Warden will be contacted to determine the need for posting the vegetation prior to its removal.

4. Fill will be placed within the area of disturbance shown on the plan and described above. Erosion controls will be inspected and maintained on a weekly basis and after storm events. The fill will not be allowed to erode beyond the edge of disturbance.

5. Finished slopes will be no greater than 3:1 (horizontal: vertical). Slopes will be stabilized with loam, seed and erosion control mat per the attached detail.

6. The work will be completed and the site will be stable by September 30, 2003.

7. Wetlands exist on the abutting property to the south. No other activity will take place south of the existing building until the wetland boundaries are identified and the need for a wetland permit is determined.

8. Bill Knotts, Old Mystic Fire Department, will be responsible for the erosion control on the site. He can be reached at 536-2220.

APPENDIX D

Environmental Data Resources, Inc. Report

Oral School Phase I ESA
240 Oral School Rd
Mystic, CT 06355

Inquiry Number: 3493417.2s
January 11, 2013

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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Detail Map	3
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Map Findings	7
Orphan Summary	20
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GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

240 ORAL SCHOOL RD
MYSTIC, CT 06355

COORDINATES

Latitude (North):	41.3765000 - 41˚ 22' 35.40''
Longitude (West):	71.9723000 - 71˚ 58' 20.28''
Universal Tranverse Mercator:	Zone 19
UTM X (Meters):	251431.9
UTM Y (Meters):	4584605.0
Elevation:	162 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	41071-D8 OLD MYSTIC, CT
Most Recent Revision:	1983
South Map:	41071-C8 MYSTIC, CT NY RI
Most Recent Revision:	1984

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:	2010
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
MYSTIC EDUCATION CENTER 240 ORAL SCHOOL RD MYSTIC, CT 06355	UST	N/A
MYSTIC EDUCATION CENTER 240 ORAL SCHOOL RD MYSTIC, CT 6355	PADS	CTD000000001
DPW ORAL SCHOOL 240 ORAL SCHOOL ROAD MYSTIC, CT 06355	MANIFEST	N/A

EXECUTIVE SUMMARY

MYSTIC EDUCATIONAL CENTER 240 ORAL SCHOOL RD MYSTIC, CT 06355	FINDS AIRS US AIRS	N/A
240 ORAL SCHOOL ROAD 240 ORAL SCHOOL ROAD LEDYARD, CT	SPILLS	N/A
240 ORAL SCHOOL RD 240 ORAL SCHOOL RD GROTON, CT	SPILLS	N/A
MYSTIC EDUCATION CENTER 240 ORAL SCHOOL RD MYSTIC, CT 06355	MANIFEST NPDES	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ..... National Priority List
Proposed NPL ..... Proposed National Priority List Sites
NPL LIENS ..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ..... National Priority List Deletions

Federal CERCLIS list

CERCLIS ..... Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY ..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP ..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS ..... Corrective Action Report

EXECUTIVE SUMMARY

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls
LUCIS..... Land Use Control Information System

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS..... Inventory of Hazardous Disposal Sites
SDADB..... Site Discovery and Assessment Database

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... List of Landfills/Transfer Stations

State and tribal leaking storage tank lists

LUST..... Leaking Underground Storage Tank List
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

AST..... Marine Terminals and Tank Information
INDIAN UST..... Underground Storage Tanks on Indian Land
FEMA UST..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

AUL..... ELUR Sites

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing
VCP..... Voluntary Remediation Sites

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Inventory

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

EXECUTIVE SUMMARY

Local Lists of Landfill / Solid Waste Disposal Sites

ODI	Open Dump Inventory
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
SWRCY	Recycling Facilities
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL	Clandestine Drug Labs
CDL	Clandestine Drug Lab Listing
US HIST CDL	National Clandestine Laboratory Register

Local Land Records

LIENS 2	CERCLA Lien Information
LIENS	Environmental Liens Listing
CT PROPERTY	Property Transfer Filings

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
SPILLS	Oil & Chemical Spill Database

Other Ascertainable Records

RCRA NonGen / NLR	RCRA - Non Generators
DOT OPS	Incident and Accident Data
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
MINES	Mines Master Index File
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
RAATS	RCRA Administrative Action Tracking System
RMP	Risk Management Plans
LWDS	Connecticut Leachate and Wastewater Discharge Sites
MANIFEST	Hazardous Waste Manifest Data
DRYCLEANERS	Drycleaner Facilities
ENF	Enforcement Case Listing
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
PRP	Potentially Responsible Parties
CPCS	Contaminated or Potentially Contaminated Sites
2020 COR ACTION	2020 Corrective Action Program List

EXECUTIVE SUMMARY

EPA WATCH LIST..... EPA WATCH LIST
US FIN ASSUR..... Financial Assurance Information
PCB TRANSFORMER..... PCB Transformer Registration Database
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
Financial Assurance..... Financial Assurance Information Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP..... EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were not identified.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 34 records.

Site Name	Database(s)
HENNY PENNY (HENDEL'S)	LUST,CPCS
STEAMBOAT WHARF CONDO ASSOC.	LUST,CPCS
RIVERSIDE FOREIGN MOTORS	LUST,CPCS
SEAMAN'S INN	LUST,CPCS
GILL'S MOBIL	CPCS
MYSTIC SEAPORT MUSEUM	LUST,CPCS
MYSTIC RIVER DRAW BRIDGE AREA / ST	LUST,CPCS,SPILLS
AGWAY HARDWARE	CPCS
QUAMBAUG COVE FIRE DISTRICT	LUST,CPCS
N.U. SUBSTATION	CPCS
HENDEL'S DISTRIBUTION CENTER	LUST,CPCS
CLARK COVE BOAT COMPANY	SPILLS,CPCS
UNKNOWN	LUST,SPILLS,CPCS
UNKNOWN	LUST,CPCS,SPILLS
PINE POINT SCHOOL	FTTS,FINDS,HIST FTTS
BRUSTOLON BUICK PONTIAC INC	MANIFEST
BRUSTOLON BUICK PONTIAC, INC.	MANIFEST
MYSTIC CHRYSLER PLYMOUTH	MANIFEST
MYSTIC CHRYSLER PLYMOUTH	MANIFEST
GIL'S MOBIL SERVICE	MANIFEST
GILS MOBIL SERVICE	MANIFEST
ID NOT IN TRANSPORTER FILE	MANIFEST
GIL'S MOBIL SERVICE	MANIFEST
GILS MOBIL	FINDS,MANIFEST,RCRA-NLR
GREENHAVEN EQUIPMENT	MANIFEST
HUBBELL HARVEY INCORPORATED	MANIFEST
HUBBELL HARVEY INCORPORATED	MANIFEST
GREENHAVEN EQUIPMENT	FINDS,RCRA-NLR
MYSTIC MIDDLE SCHOOL	FINDS
WEST BROAD ST SCHOOL	FINDS
STONINGTON HIGH SCHOOL	FINDS
PAWCATUCK MIDDLE SCHOOL	FINDS
MYSTIC MIDDLE SCHOOL	FINDS
SCHOOL ADMINISTRATION BUILDING	FINDS

OVERVIEW MAP - 3493417.2s

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites

0 1/4 1/2 1 Miles

- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Oral School Phase I ESA ADDRESS: 240 Oral School Rd Mystic CT 06355 LAT/LONG: 41.3765 / 71.9723	CLIENT: Loureiro Engineering Assoc. PC CONTACT: Matt Quaranta INQUIRY #: 3493417.2s DATE: January 11, 2013 3:52 pm

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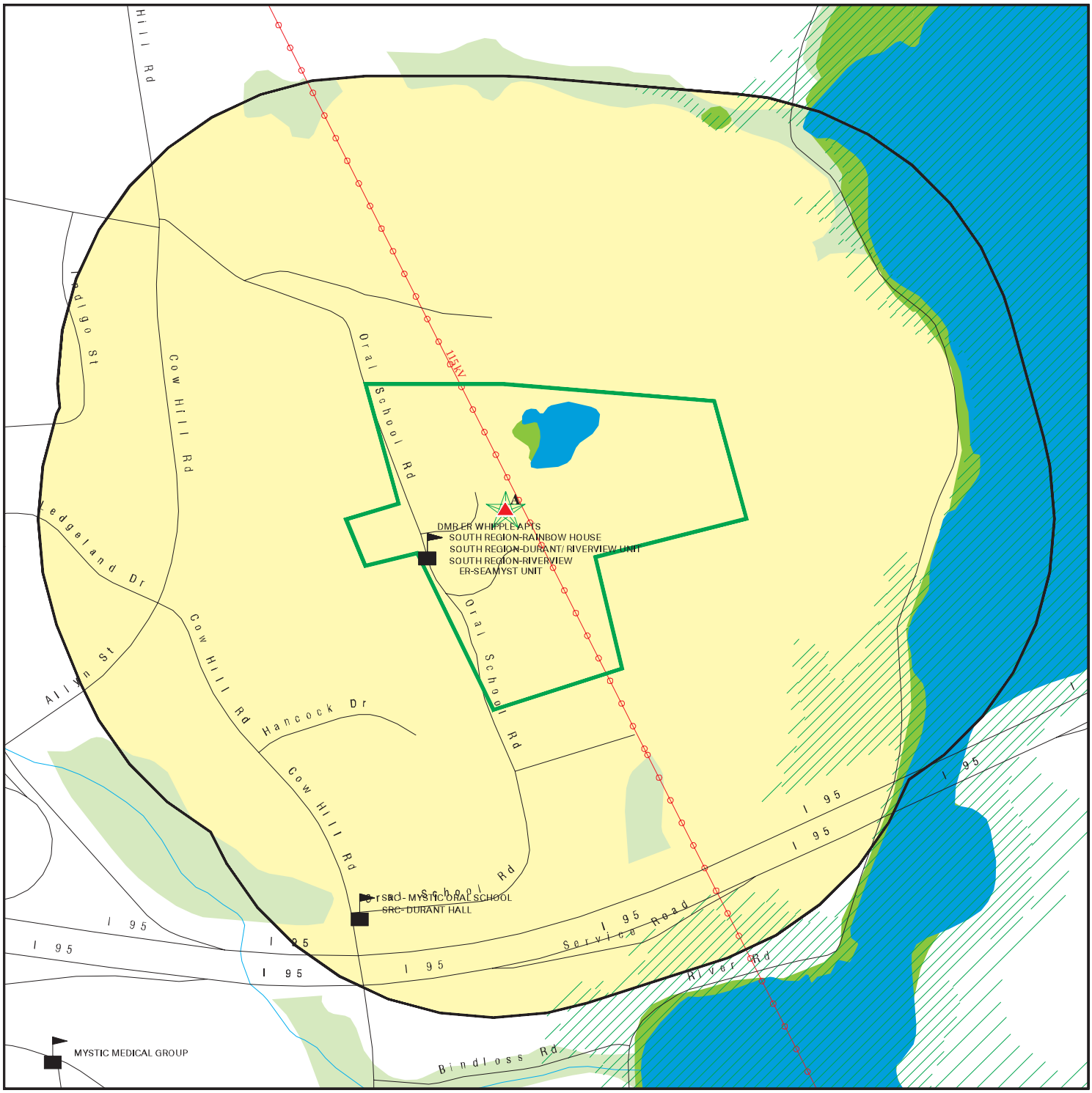
DETAIL MAP - 3493417.2s



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Oral School Phase I ESA	CLIENT: Loureiro Engineering Assoc. PC
ADDRESS: 240 Oral School Rd Mystic CT 06355	CONTACT: Matt Quaranta INQUIRY #: 3493417.2s
LAT/LONG: 41.3765 / 71.9723	DATE: January 11, 2013 3:56 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	1.000		0	0	0	0	NR	0
SDADB	0.500		0	0	0	NR	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250	1	0	0	NR	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
AUL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
CT PROPERTY	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP	2	NR	NR	NR	NR	NR	2
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP	1	NR	NR	NR	NR	NR	1
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
LWDS	0.250		0	0	NR	NR	NR	0
MANIFEST	0.250	2	0	0	NR	NR	NR	2
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
NPDES	TP	1	NR	NR	NR	NR	NR	1
AIRS	TP	1	NR	NR	NR	NR	NR	1
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
US AIRS	TP	1	NR	NR	NR	NR	NR	1
CPCS	0.500		0	0	0	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 Target Property | **MYSTIC EDUCATION CENTER**
240 ORAL SCHOOL RD
MYSTIC, CT 06355 | **UST** | **U003160173**
N/A

Site 1 of 7 in cluster A

Actual: 162 ft.

UST:

Facility Id:	11286
Alt. Facility ID:	59-11286
Latitude:	Not reported
Longitude:	Not reported
Owner:	STATE OF CONNECTICUT, DEPARTMENT OF CORRECTION
Owner Address:	24 WOLCOTT HILL RD
Owner Address 2:	Not reported
Owner City,St,Zip:	WETHERSFIELD, CT 061091152

Tank ID:	11286-1
Compartment ID:	11286-1
Compartment Num:	1
Alt. Tank ID:	A1
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	250
Substance:	Heating Oil
Date Installed:	01/01/1970
Date Last Used:	09/01/1992
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	11286-2
Compartment ID:	11286-2
Compartment Num:	1
Alt. Tank ID:	A2
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	7500
Substance:	Heating Oil
Date Installed:	01/01/1960
Date Last Used:	09/01/1992
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	11286-3
Compartment ID:	11286-3
Compartment Num:	1
Alt. Tank ID:	A2R1
Tank Status:	**Currently In Use**
Tank Material:	Fiberglass Reinforced Plastic
Secondary Material:	Not reported

MYSTIC EDUCATION CENTER (Continued) **U003160173**

Capacity:	10000
Substance:	Heating Oil
Date Installed:	01/01/1993
Date Last Used:	Not reported
Closure Status:	**Not reported**
Pipe Material:	Rigid Fiberglass Reinforced Plastic
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	11286-4
Compartment ID:	11286-4
Compartment Num:	1
Alt. Tank ID:	A3
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	10000
Substance:	Heating Oil
Date Installed:	01/01/1975
Date Last Used:	09/01/1992
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	11286-5
Compartment ID:	11286-5
Compartment Num:	1
Alt. Tank ID:	A3R1
Tank Status:	**Currently In Use**
Tank Material:	Fiberglass Reinforced Plastic
Secondary Material:	Not reported
Capacity:	10000
Substance:	Heating Oil
Date Installed:	01/01/1993
Date Last Used:	Not reported
Closure Status:	**Not reported**
Pipe Material:	Rigid Fiberglass Reinforced Plastic
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	11286-6
Compartment ID:	11286-6
Compartment Num:	1
Alt. Tank ID:	B4
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	500
Substance:	Gasoline
Date Installed:	01/01/1950

MYSTIC EDUCATION CENTER (Continued) **U003160173**

Date Last Used:	09/01/1992
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Other (Specify)
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	11286-7
Compartment ID:	11286-7
Compartment Num:	1
Alt. Tank ID:	E
Tank Status:	**Permanently Closed**
Tank Material:	Asphalt Coated or Bare Steel
Secondary Material:	Not reported
Capacity:	10000
Substance:	Heating Oil
Date Installed:	01/01/1975
Date Last Used:	03/01/1996
Closure Status:	**Tank was Removed From Ground**
Pipe Material:	Other (Specify)
Pipe Mode Description:	Not reported
Spill Installed:	Not reported
Overfill Installed:	Not reported

Tank ID:	11286-8
Compartment ID:	11286-8
Compartment Num:	1
Alt. Tank ID:	ERI
Tank Status:	**Currently In Use**
Tank Material:	Fiberglass Reinforced Plastic
Secondary Material:	Not reported
Capacity:	10000
Substance:	Heating Oil
Date Installed:	04/01/1996
Date Last Used:	Not reported
Closure Status:	**Not reported**
Pipe Material:	Bare or Galvonized Steel
Pipe Mode Description:	Cathodically Protected
Spill Installed:	Not reported
Overfill Installed:	Not reported

A2 Target Property **MYSTIC EDUCATION CENTER** **PADS** **1005481017**
240 ORAL SCHOOL RD **CTD000000001**
MYSTIC, CT 6355

Site 2 of 7 in cluster A

Actual: 162 ft.

PADS:

EPAID:	CTD000000001
Facility name:	MYSTIC EDUCATION CENTER
Facility Address:	240 ORAL SCHOOL RD MYSTIC, CT 6355
Facility country:	US
Generator:	No
Storer:	No
Transporter:	No

MYSTIC EDUCATION CENTER (Continued) **1005481017**

Disposer:	No
Research facility:	No
Smelter:	No
Facility owner name:	CT DEPT OF PUBLIC WORKS
Contact title:	Not reported
Contact name:	DESROCHES TIM
Contact tel:	(203)536-4221
Contact extension:	Not reported
Mailing address:	240 ORAL SCHOOL RD MYSTIC, CT 6355
Mailing country:	US
Cert. title:	Not reported
Cert. name:	Not reported
Cert. date:	2/22/1991
Date received:	3/30/1993

A3 Target Property | **DPW ORAL SCHOOL**
240 ORAL SCHOOL ROAD
MYSTIC, CT 06355 | **MANIFEST** | **S109741550**
N/A

Site 3 of 7 in cluster A

Actual: 162 ft.

CT MANIFEST:

Waste:

Manifest No:	CTF0080840
Waste Occurence:	1
UNNA:	9189
Hazard Class:	ORM-E
US Dot Description:	HAZARDOUS WASTE SOLID, NOS
No of Containers:	001
Container Type:	CM
Quantity:	15
Weight/Volume:	Y
Additional Description:	Y
Handling Code:	D81
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Waste CD:

Manifest No:	CTF0080840
Waste Occurence:	1
EPA Waste Code:	D009
Recycled Waste?:	F
Date Record Was Last Modified:	4/27/2004
DEO Who Last Modified Record:	IG

Detail:

Year:	1991
Manifest ID:	CTF0080840
TSDF EPA ID:	CTD089631956
TSDF Name:	EAST COAST ENVIRONMENTAL SERVICE CORP
TSDF Address:	454 QUINNIPIAC AVENUE
TSDF City,St,Zip:	NEW HAVEN, CT 06513
TSDF Country:	USA
TSDF Telephone:	Not reported
Transport Date:	6/20/1991

DPW ORAL SCHOOL (Continued) **S109741550**

Transporter EPA ID:	CTD983872748
Transporter Name:	SEALAND ENVIRONMENTAL SERVICES, INC.
Transporter Country:	USA
Transporter Phone:	Not reported
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	CTP000012457
Generator Phone:	2035364221
Generator Mailing Addr:	240 ORAL SCHOOL ROAD
Generator Mailing Town:	MYSTIC
Generator Mailing State:	CT
Generator Mailing Zip:	06355
Generator Mailing Country:	USA
Special Handling:	Yes
Discrepancies:	No
Date Shipped:	6/20/1991
Date Received:	6/20/1991
Last modified date:	4/27/2004
Last modified by:	IG
Comments:	Not reported

A4 Target Property | **MYSTIC EDUCATIONAL CENTER** | **FINDS** | **1006672563**
240 ORAL SCHOOL RD | **AIRS** | **N/A**
MYSTIC, CT 06355 | **US AIRS**

Site 4 of 7 in cluster A

Actual: 162 ft.

FINDS:

Registry ID: 110007247005

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

Connecticut Site Information Management System (SIMS) is part of a suite of web-based applications designed to allow the Connecticut Department of Environmental Protection (DEP) staff to harmonize environmental interest information from disparate systems in a single agency-wide data repository (known as CFI). SIMS provides tools for identifying and resolving duplicate data, querying data (using both tabular and geospatial methods), and viewing/maintaining documents associated to the data.

MYSTIC EDUCATIONAL CENTER (Continued) **1006672563**

AIRS:

OBS:	679
Client No.:	799
Town No.:	70
Prem No.:	27
Contact:	TIM DESROCHES
Phone# Area Code:	8605364221
Mail Street:	240 ORAL SCHOOL RD
Mail Town:	MYSTIC
Mail State:	CT
Mail Zip:	6355
X Utm Grid:	251.599999
Y Utm Grid:	4584.69999
Sic:	8299
Permit No:	4
Description:	BLR HB SMITH 650-18 #3
Date Permit Issued:	11/17/1981
Date Permit Expires:	.
Carbon Monoxide Emissions (TPY):	0.20000000
Actual Pm10(TPY):	0
Actual So(TPY):	1.40000000
Actual Nox(TPY):	0.59999999
Actual Hc(TPY):	0

OBS:	680
Client No.:	799
Town No.:	70
Prem No.:	27
Contact:	TIM DESROCHES
Phone# Area Code:	8605364221
Mail Street:	240 ORAL SCHOOL RD
Mail Town:	MYSTIC
Mail State:	CT
Mail Zip:	6355
X Utm Grid:	251.599999
Y Utm Grid:	4584.69999
Sic:	8299
Permit No:	138
Description:	BLR SMITH L0650-5-18
Date Permit Issued:	10/17/1997
Date Permit Expires:	.
Carbon Monoxide Emissions (TPY):	0.29999999
Actual Pm10(TPY):	0.10000000
Actual So(TPY):	3.10000000
Actual Nox(TPY):	1.40000000
Actual Hc(TPY):	0

AIRS (AFS):

Airs Minor Details:

EPA plant ID:	110007247005
Plant name:	MYSTIC EDUCATIONAL CENTER
Plant address:	240 ORAL SCHOOL RD MYSTIC, CT 06355
County:	NEW LONDON
Region code:	01

MYSTIC EDUCATIONAL CENTER (Continued) **1006672563**

Dunn & Bradst #:	198790669
Air quality cntrl region:	041
Sic code:	8299
Sic code desc:	Not reported
North Am. industrial classf:	Not reported
NAIC code description:	Not reported
Default compliance status:	IN COMPLIANCE - INSPECTION
Default classification:	POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Govt facility:	ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT
Current HPV:	Not reported

Compliance and Enforcement Major Issues:

Air program:	SIP SOURCE
National action type:	Not reported
Date achieved:	00000
Penalty amount:	Not reported

Historical Compliance Minor Sources:

State compliance status:	IN COMPLIANCE - INSPECTION
Hist compliance date:	0902
Air prog code hist file:	0
State compliance status:	IN COMPLIANCE - INSPECTION
Hist compliance date:	0901
Air prog code hist file:	0
State compliance status:	IN COMPLIANCE - INSPECTION
Hist compliance date:	0903
Air prog code hist file:	0
State compliance status:	IN COMPLIANCE - INSPECTION
Hist compliance date:	0904
Air prog code hist file:	0
State compliance status:	IN COMPLIANCE - INSPECTION
Hist compliance date:	1001
Air prog code hist file:	0
State compliance status:	IN COMPLIANCE - INSPECTION
Hist compliance date:	1002
Air prog code hist file:	0
State compliance status:	IN COMPLIANCE - INSPECTION
Hist compliance date:	1003
Air prog code hist file:	0
State compliance status:	IN COMPLIANCE - INSPECTION
Hist compliance date:	1004
Air prog code hist file:	0
State compliance status:	IN COMPLIANCE - INSPECTION
Hist compliance date:	1101
Air prog code hist file:	0

MYSTIC EDUCATIONAL CENTER (Continued) **1006672563**

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1102
Air prog code hist file: 0

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1103
Air prog code hist file: 0

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1104
Air prog code hist file: 0

Compliance & Violation Data by Minor Sources:
Air program code: SIP SOURCE
Plant air program pollutant: SULFUR DIOXIDE
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE - INSPECTION
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: SIP SOURCE
Plant air program pollutant: CARBON MONOXIDE
Default pollutant classification: CLASS IS UNKNOWN
Def. poll. compliance status: NO APPLICABLE STATE REGULATION
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

A5 **SPILLS** **S104031471**
Target Property **240 ORAL SCHOOL ROAD** **N/A**
LEDYARD, CT

Site 5 of 7 in cluster A

Actual: 162 ft.

SPILLS:
Year of Database: 1998
Case Number: 9805932
Who Took Spill: 922
Assigned To: 0
Report Date: 09/02/1998
Report Time: 02 10:50:55
Date Release: 09/02/1998
Time Responded: 30 09:50:00
Reported By: HAROLD MONROE
Phone: 860 5364221
Representing: ORAL SCHOOL SYSTEM
Terminated: YES
Recovd (Total): 4
Total (Water): 0
Facility Status: closed
Continuous Spill: False
Released Substance: #2 FUEL OIL
Qty: 4 (Gallons)
Emergency Measure: CONTAINED AND REMOVED
Water Body: NA
Discharger: MYSTIC EDUCATIONAL CENTER

(Continued) **S104031471**

Telephone: 860 5364221
Responsible Party: YES
RP Address 1: 240 ORAL SCHOOL ROAD
RP City,St,Zip: MYSTIC, R.F.D. 1, CT 06339
Historic: False
Waterbody: False
Time Stamp: 1998-09-02 10:55:26
Sr Inspector: Aceto, John
At Inspctor: **NO RESPONSE
User Stamp: Not reported
Comments: Not reported
Action: Removed
Other Action: Not reported
Action: Contained
Other Action: Not reported
Agency ID: DEP
Other Agency: Not reported
DEP Bureau: BUREAU OF WASTE MANAGEMENT
DEP Agency: OIL AND CHEMICAL SPILL RESPONSE
Cause ID: Overfill
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Release Type: petroleum
Other Release: Not reported

A6 **SPILLS** **S105869640**
Target Property **240 ORAL SCHOOL RD** **N/A**
GROTON, CT

Site 6 of 7 in cluster A

Actual: 162 ft.

SPILLS:
Year of Database: 2003
Case Number: 200303753
Who Took Spill: 208
Assigned To: 937
Report Date: 05/20/2003
Report Time: 20 17:49:29
Date Release: 05/20/2003
Time Responded: Not reported
Reported By: fd
Phone: 860 4481562
Representing: fd
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: Closed
Continuous Spill: False
Released Substance: #2 FUEL OIL
Qty: 100 (Gallons)
Emergency Measure: Not reported
Water Body: Not reported
Discharger: Not reported
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT

(Continued) **S105869640**

Historic:	False
Waterbody:	False
Time Stamp:	2003-08-15 15:08:42
Sr Inspector:	Monarca, Vincent
At Inspctor:	CHANDLER, JEFF
User Stamp:	Not reported
Comments:	Not reported
Action:	Removed
Other Action:	Not reported
Action:	Contained
Other Action:	Not reported
Action:	Contracted
Other Action:	Not reported
Action:	Sanded
Other Action:	Not reported
Action:	Other
Other Action:	SPEEDI DRI
Agency ID:	DEP Dispatch
Other Agency:	Not reported
DEP Bureau:	Not reported
DEP Agency:	Not reported
Agency ID:	Other
Other Agency:	921
DEP Bureau:	Not reported
DEP Agency:	Not reported
Agency ID:	LOCAL FIRE DEPARTMENT
Other Agency:	Not reported
DEP Bureau:	Not reported
DEP Agency:	Not reported
Cause ID:	Cargo Tank Failure
Other Cause:	Not reported
Media ID:	Ground Surface
Other Media:	Not reported
Class ID:	Commercial
Other Class:	Not reported
Release Type:	petroleum
Other Release:	Not reported

A7
Target Property

MYSTIC EDUCATION CENTER
240 ORAL SCHOOL RD
MYSTIC, CT 06355

MANIFEST **S109795389**
NPDES **N/A**

Site 7 of 7 in cluster A

Actual:
162 ft.

CT MANIFEST:

Waste:

Manifest No:	ctf1066581
Waste Occurence:	3
UNNA:	3077
Hazard Class:	9
US Dot Description:	HAZARDOUS WASTE, SOLID, N.O.S.
No of Containers:	4
Container Type:	DM
Quantity:	1200
Weight/Volume:	P
Additional Description:	Not reported
Handling Code:	Not reported

MYSTIC EDUCATION CENTER (Continued) **S109795389**

Date Record Was Last Modified: 12/12/2005
DEO Who Last Modified Record: CYF

Manifest No: ctf1066581
Waste Occurence: 1
UNNA: 3266
Hazard Class: 8
US Dot Description: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
No of Containers: 6
Container Type: DF
Quantity: 180
Weight/Volume: G
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 12/12/2005
DEO Who Last Modified Record: CYF

Manifest No: ctf1066581
Waste Occurence: 4
UNNA: 3082
Hazard Class: 9
US Dot Description: HAZARDOUS WASTE, LIQUID, N.O.S.
No of Containers: 2
Container Type: DM
Quantity: 110
Weight/Volume: G
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 12/12/2005
DEO Who Last Modified Record: CYF

Manifest No: ctf1066581
Waste Occurence: 2
UNNA: 3077
Hazard Class: 9
US Dot Description: HAZARDOUS WASTE, SOLID, N.O.S.
No of Containers: 15
Container Type: DM
Quantity: 2250
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 12/12/2005
DEO Who Last Modified Record: CYF

Waste CD:
Manifest No: ctf1066581
Waste Occurence: 4
EPA Waste Code: D008
Recycled Waste?: F
Date Record Was Last Modified: 12/12/2005
DEO Who Last Modified Record: CYF

Manifest No: ctf1066581
Waste Occurence: 1
EPA Waste Code: D002
Recycled Waste?: F

MYSTIC EDUCATION CENTER (Continued) **S109795389**

Date Record Was Last Modified: 12/12/2005
DEO Who Last Modified Record: CYF

Manifest No: ctf1066581
Waste Occurence: 3
EPA Waste Code: D008
Recycled Waste?: F
Date Record Was Last Modified: 12/12/2005
DEO Who Last Modified Record: CYF

Manifest No: ctf1066581
Waste Occurence: 2
EPA Waste Code: D008
Recycled Waste?: F
Date Record Was Last Modified: 12/12/2005
DEO Who Last Modified Record: CYF

Detail:

Year:	2005
Manifest ID:	ctf1066581
TSDF EPA ID:	RID040098352
TSDF Name:	NORTHLAND ENVIRONMENTAL INC.
TSDF Address:	275 ALLENS LANE
TSDF City,St,Zip:	PROVIDENCE, RI 02905
TSDF Country:	USA
TSDF Telephone:	4017816340
Transport Date:	6/7/2005
Transporter EPA ID:	CTD018811802
Transporter Name:	ENVIRONMENTAL SERVICES, INC.
Transporter Country:	USA
Transporter Phone:	(860)528-9500
Trans 2 Date:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
Trans 2 Address:	Not reported
Trans 2 City,St,Zip:	CT
Trans 2 Country:	USA
Trans 2 Phone:	Not reported
EPA ID:	ctp000028712
Generator Phone:	(860)713-5678
Generator Mailing Addr:	240 ORAL SCHOOL RD
Generator Mailing Town:	GROTON
Generator Mailing State:	CT
Generator Mailing Zip:	06355-
Generator Mailing Country:	USA
Special Handling:	Not reported
Discrepancies:	Not reported
Date Shipped:	6/7/2005
Date Received:	6/7/2005
Last modified date:	12/12/2005
Last modified by:	CYF
Comments:	Not reported

NPDES:

Town Id:	Not reported

MYSTIC EDUCATION CENTER (Continued) **S109795389**

Company Name:	Not reported
Permit Number:	GPL000145
Permit Issued Date:	12/21/2009
Permit Expiration Date:	07/09/2014
Application Received Date:	Not reported
Affiliation Type:	Permittee
Permit EI Type:	Swimming Pool Wastewater-GP
App Id:	200903707
Site Address Description:	Not reported
Site Address Line 2:	Not reported
Permit Description:	Mystic Education Center 24 Oral School Rd. Mystic, Ct. 06355
Status:	Active
Affiliate Address Line 1:	165 CAPITOL AVE
Affiliate Address Line 2:	ROOM G-4
Affiliate City/State/Zip:	HARTFORD, CT
Contact Name:	JACQUELYN BROWN
Contact Title:	Not reported
Contact EMail:	Not reported

Count: 34 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
STONINGTON	1004456056	PINE POINT SCHOOL	89 BAINES ROAD	06378	FTTS,FINDS,HIST FTTS
MYSTIC	1004681394	GILS MOBIL	RTE 27	06355	FINDS,MANIFEST,RCRA-NLR
STONINGTON	1004681409	GREENHAVEN EQUIPMENT	RTE 1 & RTE 1A	06378	FINDS,RCRA-NLR
MYSTIC	1014874461	MYSTIC MIDDLE SCHOOL	MISTUXET AVE		FINDS
STONINGTON	1014875819	MYSTIC MIDDLE SCHOOL	MISTUCT AVE	06378	FINDS
STONINGTON	1014875820	PAWCATUCK MIDDLE SCHOOL	MAYFLOWER AVE	06378	FINDS
STONINGTON	1014875824	STONINGTON HIGH SCHOOL	176 SOUTH BROAD ST	06378	FINDS
STONINGTON	1014875826	SCHOOL ADMINISTRATION BUILDING	NORTH STONINGTON RD	06378	FINDS
STONINGTON	1014875827	WEST BROAD ST SCHOOL	WEST BROAD ST	06378	FINDS
MYSTIC	S101802241	MYSTIC RIVER DRAW BRIDGE AREA / ST	WEST MAIN ST	06339	LUST,CPCS,SPILLS
MYSTIC	S102413769	HENNY PENNY (HENDEL'S)	RTE. 1	06339	LUST,CPCS
MYSTIC	S102413774	RIVERSIDE FOREIGN MOTORS	RTE. 184	06339	LUST,CPCS
STONINGTON	S102414129	N.U. SUBSTATION	RTE. 1	06378	CPCS
STONINGTON	S102414130	AGWAY HARDWARE	RTE. 1	06378	CPCS
STONINGTON	S102414136	QUAMBAUG COVE FIRE DISTRICT	RTE. 1	06378	LUST,CPCS
STONINGTON	S103155596	UNKNOWN	118 WINTERCHOG ROAD	06378	LUST,CPCS,SPILLS
STONINGTON	S104237623	CLARK COVE BOAT COMPANY	CLARK COVE BOAT COMPANY	06378	SPILLS,CPCS
STONINGTON	S104311316	UNKNOWN	STONINGTON ROAD NEXT TO 951	06378	LUST,SPILLS,CPCS
MYSTIC	S105458018	GILL'S MOBIL	RTE 27	06339	CPCS
STONINGTON	S105839998	HENDEL'S DISTRIBUTION CENTER	RTE. 2	06378	LUST,CPCS
MYSTIC	S106122392	STEAMBOAT WHARF CONDO ASSOC.	RTE. 1	06339	LUST,CPCS
MYSTIC	S106401479	MYSTIC SEAPORT MUSEUM	RTE. 27	06339	LUST,CPCS
MYSTIC	S106401489	SEAMAN'S INN	RTE. 27	06339	LUST,CPCS
STONINGTON	S109723393	HUBBELL HARVEY INCORPORATED	US ROUTE #1	06378	MANIFEST
STONINGTON	S109723394	HUBBELL HARVEY INCORPORATED	US ROUTE 1	06378	MANIFEST
MYSTIC	S109725896	BRUSTOLON BUICK PONTIAC INC	RTE 1	06355	MANIFEST
MYSTIC	S109725897	BRUSTOLON BUICK PONTIAC, INC.	RTE 1	06355	MANIFEST
MYSTIC	S109732014	GIL'S MOBIL SERVICE	RTE 27	06355	MANIFEST
MYSTIC	S109732015	GILS MOBIL SERVICE	RTE 27	06355	MANIFEST
MYSTIC	S109732016	ID NOT IN TRANSPORTER FILE	RTE 27	06355	MANIFEST
MYSTIC	S109737687	MYSTIC CHRYSLER PLYMOUTH	ROUTE 1	06355	MANIFEST
MYSTIC	S109737688	MYSTIC CHRYSLER PLYMOUTH	RTE 1	06355	MANIFEST
MYSTIC	S109738200	GIL'S MOBIL SERVICE	RTE. 27	06355	MANIFEST
STONINGTON	S109739014	GREENHAVEN EQUIPMENT	RTE 1 & 1A		MANIFEST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/01/2012
Date Data Arrived at EDR: 10/11/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 70

Source: EPA
Telephone: N/A
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/01/2012
Date Data Arrived at EDR: 10/11/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 70

Source: EPA
Telephone: N/A
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/01/2012	Source: EPA
Date Data Arrived at EDR: 10/11/2012	Telephone: N/A
Date Made Active in Reports: 12/20/2012	Last EDR Contact: 01/04/2013
Number of Days to Update: 70	Next Scheduled EDR Contact: 04/22/2013
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 11/02/2012	Source: EPA
Date Data Arrived at EDR: 11/28/2012	Telephone: 703-412-9810
Date Made Active in Reports: 01/07/2013	Last EDR Contact: 01/04/2013
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/11/2013
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/31/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/09/2012	Telephone: 703-603-8704
Date Made Active in Reports: 12/20/2012	Last EDR Contact: 01/11/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 04/22/2013
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 11/02/2012	Source: EPA
Date Data Arrived at EDR: 11/28/2012	Telephone: 703-412-9810
Date Made Active in Reports: 01/07/2013	Last EDR Contact: 01/04/2013
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/11/2013
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 08/19/2011
Date Data Arrived at EDR: 08/31/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 132

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 11/12/2012
Next Scheduled EDR Contact: 02/25/2013
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 09/11/2012
Date Data Arrived at EDR: 10/04/2012
Date Made Active in Reports: 12/04/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/11/2012
Date Data Arrived at EDR: 10/04/2012
Date Made Active in Reports: 12/04/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 09/11/2012
Date Data Arrived at EDR: 10/04/2012
Date Made Active in Reports: 12/04/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/11/2012
Date Data Arrived at EDR: 10/04/2012
Date Made Active in Reports: 12/04/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/18/2012
Date Data Arrived at EDR: 07/24/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 104

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 12/10/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/18/2012
Date Data Arrived at EDR: 07/24/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 104

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 12/10/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/15/2012
Next Scheduled EDR Contact: 03/04/2013
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 04/02/2012
Date Data Arrived at EDR: 04/03/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 72

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 01/11/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Inventory of Hazardous Disposal Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 04/23/2010
Date Data Arrived at EDR: 04/23/2010
Date Made Active in Reports: 05/25/2010
Number of Days to Update: 32

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Varies

SDADB: Site Discovery and Assessment Database
All sites reported to Permitting, Enforcement, and Remediation Division where it is suspected that hazardous waste may have been disposed or sites that are eligible for listing on the State Inventory of Hazardous Waste Disposal Sites.

Date of Government Version: 04/23/2010
Date Data Arrived at EDR: 04/23/2010
Date Made Active in Reports: 05/25/2010
Number of Days to Update: 32

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Semi-Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: List of Landfills/Transfer Stations
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 03/24/2011
Date Data Arrived at EDR: 05/03/2011
Date Made Active in Reports: 06/02/2011
Number of Days to Update: 30

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3366
Last EDR Contact: 11/02/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank List
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 11/05/2012
Date Data Arrived at EDR: 11/07/2012
Date Made Active in Reports: 11/15/2012
Number of Days to Update: 8

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3376
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Semi-Annually

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 09/06/2012
Date Data Arrived at EDR: 09/07/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 75

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/30/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/12/2012
Date Data Arrived at EDR: 05/09/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 62

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 11/01/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: Underground Storage Tank Data
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 09/10/2012
Date Data Arrived at EDR: 09/11/2012
Date Made Active in Reports: 10/15/2012
Number of Days to Update: 34

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3376
Last EDR Contact: 12/05/2012
Next Scheduled EDR Contact: 12/17/2012
Data Release Frequency: Semi-Annually

AST: Marine Terminals and Tank Information
A listing of bulk petroleum facilities that receive petroleum by a vessel.

Date of Government Version: 07/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 47

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3233
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/12/2012
Date Data Arrived at EDR: 05/02/2012
Date Made Active in Reports: 07/16/2012
Number of Days to Update: 75

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 11/01/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/02/2012
Date Data Arrived at EDR: 08/03/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 94

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 08/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 75

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 09/06/2012
Date Data Arrived at EDR: 09/07/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 39

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/15/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

AUL: ELUR Sites

Environmental Land Use Restriction sites.

Date of Government Version: 11/27/2012
Date Data Arrived at EDR: 11/28/2012
Date Made Active in Reports: 01/04/2013
Number of Days to Update: 37

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3912
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 02/25/2013
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Remediation Sites

Sites involved in the Voluntary Remediation Program.

Date of Government Version: 11/27/2012
Date Data Arrived at EDR: 11/28/2012
Date Made Active in Reports: 01/04/2013
Number of Days to Update: 37

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 02/25/2013
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 14

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Inventory

CBRA has identified over 200 brownfield sites eligible for redevelopment. In most cases these are prime properties for commercial or industrial use. CBRA's grants, assistance and financing lower the financial risks and eliminate the legal, regulatory and environmental risks of redevelopment.

Date of Government Version: 09/24/2012
Date Data Arrived at EDR: 09/25/2012
Date Made Active in Reports: 09/28/2012
Number of Days to Update: 3

Source: Connecticut Brownfields Redevelopment Authority
Telephone: 860-258-7833
Last EDR Contact: 12/18/2012
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Varies

BROWNFIELDS 2: Brownfields Inventory

A brownfield site is generally defined as "real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant or contaminanta?|"

Date of Government Version: 11/30/2004
Date Data Arrived at EDR: 06/26/2009
Date Made Active in Reports: 07/09/2009
Number of Days to Update: 13

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 12/18/2012
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/10/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/11/2012
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/03/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWRCY: Recycling Facilities
A listing of recycling facilities.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 06/02/2011
Date Made Active in Reports: 06/27/2011
Number of Days to Update: 25

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3223
Last EDR Contact: 11/12/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 11/05/2012
Next Scheduled EDR Contact: 02/18/2013
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 07/11/2012
Date Data Arrived at EDR: 09/12/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 54

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 12/03/2012
Next Scheduled EDR Contact: 03/18/2013
Data Release Frequency: Quarterly

CDL: Clandestine Drug Lab Listing
A listing of clandestine drug lab locations included in the Spills database.

Date of Government Version: 11/05/2012
Date Data Arrived at EDR: 11/09/2012
Date Made Active in Reports: 11/15/2012
Number of Days to Update: 6

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3361
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/16/2012
Date Data Arrived at EDR: 03/26/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 11/01/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Varies

LIENS: Environmental Liens Listing

A listing of environmental liens placed by the Cost Recovery Program.

Date of Government Version: 07/02/2012
Date Data Arrived at EDR: 07/03/2012
Date Made Active in Reports: 08/08/2012
Number of Days to Update: 36

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3120
Last EDR Contact: 12/21/2012
Next Scheduled EDR Contact: 03/04/2013
Data Release Frequency: Varies

CT PROPERTY: Property Transfer Filings

A listing of sites that meet the definition of a hazardous waste establishment. They can be generators, dry cleaners, furniture strippers, etc. These sites have been sold to another owner.

Date of Government Version: 11/27/2012
Date Data Arrived at EDR: 11/28/2012
Date Made Active in Reports: 01/04/2013
Number of Days to Update: 37

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 02/25/2013
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 04/01/2012
Date Data Arrived at EDR: 04/03/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 72

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

SPILLS: Oil & Chemical Spill Database

Oil and Chemical Spill Data.

Date of Government Version: 11/05/2012
Date Data Arrived at EDR: 11/09/2012
Date Made Active in Reports: 11/15/2012
Number of Days to Update: 6

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3024
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Semi-Annually

Other Ascertainable Records

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 09/11/2012
Date Data Arrived at EDR: 10/04/2012
Date Made Active in Reports: 12/04/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 11/06/2012
Next Scheduled EDR Contact: 02/18/2013
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/18/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 08/12/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 112

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 12/10/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 10/01/2012
Date Data Arrived at EDR: 10/19/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 62

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 02/27/2012
Date Data Arrived at EDR: 03/14/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 92

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/11/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/28/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2011
Date Data Arrived at EDR: 09/08/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/05/2012
Next Scheduled EDR Contact: 03/18/2013
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 09/01/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 131

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/28/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 11/01/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 10/19/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010
Date Data Arrived at EDR: 11/10/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 98

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/19/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011
Date Data Arrived at EDR: 07/15/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 60

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 12/10/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/09/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/23/2011
Date Data Arrived at EDR: 12/13/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 79

Source: EPA
Telephone: (617) 918-1111
Last EDR Contact: 12/11/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/08/2012
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 11/01/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 03/01/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 62

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/30/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Biennially

LWDS: Connecticut Leachate and Wastewater Discharge Sites

The Leachate and Waste Water Discharge Inventory Data Layer (LWDS) includes point locations digitized from Leachate and Wastewater Discharge Source maps compiled by the Connecticut DEP. These maps locate surface and groundwater discharges that (1) have received a waste water discharge permit from the state or (2) are historic and now defunct waste sites or (3) are locations of accidental spills, leaks, or discharges of a variety of liquid or solid wastes.

Date of Government Version: 07/17/2009
Date Data Arrived at EDR: 10/21/2009
Date Made Active in Reports: 10/30/2009
Number of Days to Update: 9

Source: Department of Energy & Environmental Protection
Telephone: N/A
Last EDR Contact: 10/15/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Varies

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/19/2012
Date Data Arrived at EDR: 11/19/2012
Date Made Active in Reports: 01/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/19/2012
Next Scheduled EDR Contact: 03/04/2013
Data Release Frequency: Annually

DRYCLEANERS: Drycleaner Facilities

A listing of drycleaner facility locations.

Date of Government Version: 07/18/2008
Date Data Arrived at EDR: 08/08/2008
Date Made Active in Reports: 08/27/2008
Number of Days to Update: 19

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3026
Last EDR Contact: 12/12/2012
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Varies

ENFORCEMENT: Enforcement Case Listing

The types of enforcement actions included are administrative consent orders, final unilateral orders and final dispositions of civil cases through the Attorney General's Office.

Date of Government Version: 10/31/2012
Date Data Arrived at EDR: 11/06/2012
Date Made Active in Reports: 11/15/2012
Number of Days to Update: 9

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3265
Last EDR Contact: 10/22/2012
Next Scheduled EDR Contact: 02/04/2013
Data Release Frequency: Varies

NPDES: Wastewater Permit Listing

A listing of permits issued by the DEP.

Date of Government Version: 10/22/2012
Date Data Arrived at EDR: 10/23/2012
Date Made Active in Reports: 11/16/2012
Number of Days to Update: 24

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3832
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

AIRS: Permitted Air Sources Listing

A listing of permitted air sources in Connecticut.

Date of Government Version: 05/15/2012
Date Data Arrived at EDR: 05/15/2012
Date Made Active in Reports: 05/31/2012
Number of Days to Update: 16

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3026
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/18/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 10/22/2012
Next Scheduled EDR Contact: 02/04/2013
Data Release Frequency: Varies

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 01/18/2012
Date Data Arrived at EDR: 01/27/2012
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 34

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 01/18/2012
Date Data Arrived at EDR: 01/27/2012
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 34

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

EPA WATCH LIST: EPA WATCH LIST
EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/13/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/12/2012
Next Scheduled EDR Contact: 02/25/2013
Data Release Frequency: Quarterly

US FIN ASSUR: Financial Assurance Information
All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 08/20/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 11/16/2012
Next Scheduled EDR Contact: 03/04/2013
Data Release Frequency: Quarterly

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 11/02/2012
Next Scheduled EDR Contact: 02/11/2013
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 10/16/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/11/2012
Next Scheduled EDR Contact: 03/25/2013
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

A listing containing RCRA financial assurance information submitted on behalf of the CT DEP's Program Analysis Group of the Waste Engineering and Enforcement Division.

Date of Government Version: 06/21/2012
Date Data Arrived at EDR: 06/25/2012
Date Made Active in Reports: 07/11/2012
Number of Days to Update: 16

Source: Department of Energy & Environmental Protection
Telephone: 860-418-5930
Last EDR Contact: 12/18/2012
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Varies

CPCS: Contaminated or Potentially Contaminated Sites

A list of Contaminated or Potentially Contaminated Sites within Connecticut. This list represents the "Hazardous Waste Facilities," as defined in Section 22a-134f of the Connecticut General Statutes (CGS). The list contains the following types of sites: Sites listed on the Inventory of Hazardous Waste Disposal Sites; Sites subject to the Property Transfer Act; Sites at which underground storage tanks are known to have leaked; Sites at which hazardous waste subject to the RCRA; Sites that are included in EPA's (CERCLIS); Sites that are the subject of an order issued by the Commissioner of DEP that requires investigation and remediation of a potential or known source of pollution; and Sites that have entered into one of the Department's Voluntary Remediation Programs.

Date of Government Version: 06/04/2012
Date Data Arrived at EDR: 06/05/2012
Date Made Active in Reports: 07/11/2012
Number of Days to Update: 36

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3766
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/16/2012
Next Scheduled EDR Contact: 11/26/2012
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 06/21/2012
Date Data Arrived at EDR: 06/25/2012
Date Made Active in Reports: 07/11/2012
Number of Days to Update: 16

Source: Department of Energy & Environmental Protection
Telephone: 860-418-5930
Last EDR Contact: 12/18/2012
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/18/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: N/A

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/01/2012
Date Data Arrived at EDR: 10/04/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 32

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/16/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 11/01/2012
Date Data Arrived at EDR: 11/07/2012
Date Made Active in Reports: 12/11/2012
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/07/2012
Next Scheduled EDR Contact: 02/18/2013
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/23/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 57

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/22/2012
Next Scheduled EDR Contact: 02/04/2013
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 06/22/2012
Date Made Active in Reports: 07/31/2012
Number of Days to Update: 39

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/26/2012
Next Scheduled EDR Contact: 03/11/2013
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 08/09/2012
Date Data Arrived at EDR: 08/15/2012
Date Made Active in Reports: 09/13/2012
Number of Days to Update: 29

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 10/22/2012
Next Scheduled EDR Contact: 02/04/2013
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 09/27/2012
Number of Days to Update: 70

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/13/2012
Next Scheduled EDR Contact: 04/01/2013
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Licensed Child Care Facilities
Source: Department of Public Health
Telephone: 860-509-8045

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Soils
Source: Department of Environmental Protection
Telephone: 860-871-4047

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

ORAL SCHOOL PHASE I ESA
240 ORAL SCHOOL RD
MYSTIC, CT 06355

TARGET PROPERTY COORDINATES

Latitude (North):	41.3765 - 41˚ 22' 35.40''
Longitude (West):	71.9723 - 71˚ 58' 20.28''
Universal Tranverse Mercator:	Zone 19
UTM X (Meters):	251431.9
UTM Y (Meters):	4584605.0
Elevation:	162 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	41071-D8 OLD MYSTIC, CT
Most Recent Revision:	1983
South Map:	41071-C8 MYSTIC, CT NY RI
Most Recent Revision:	1984

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

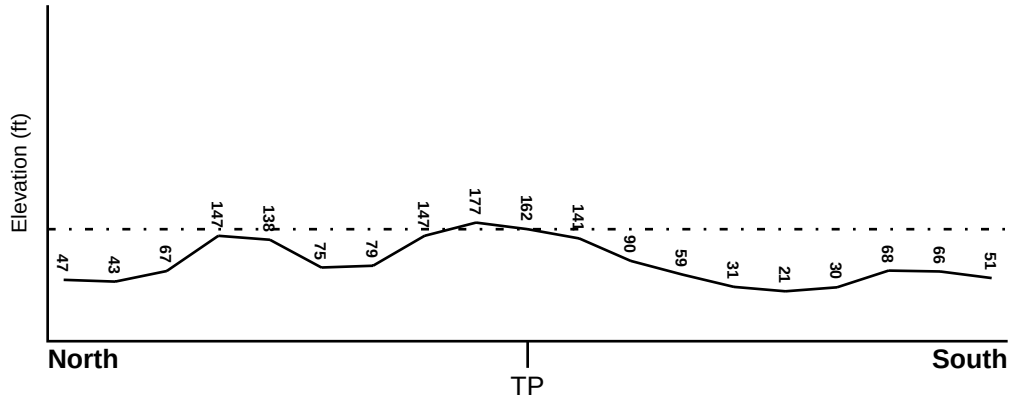
TOPOGRAPHIC INFORMATION

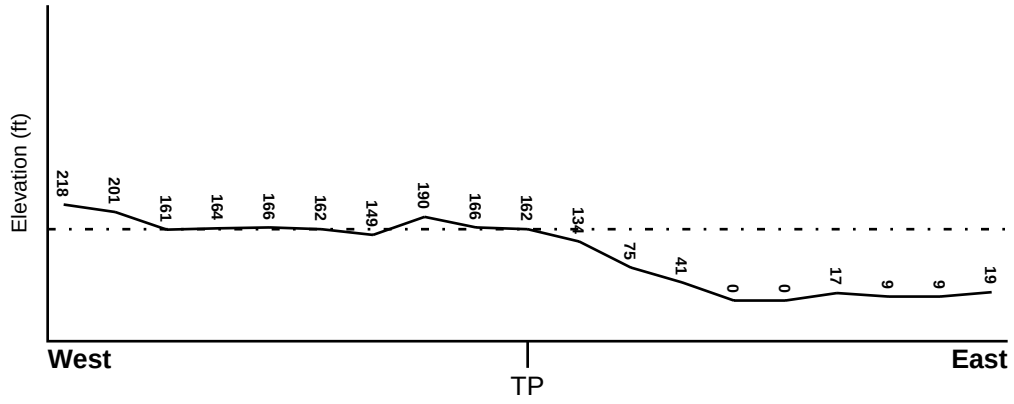
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ESE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 162 ft.

0 1/2 1 Miles

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
NEW LONDON, CT	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	0900970010C - FEMA Q3 Flood data
Additional Panels in search area:	0901060005C - FEMA Q3 Flood data 0900970011C - FEMA Q3 Flood data 0901060012D - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
OLD MYSTIC	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

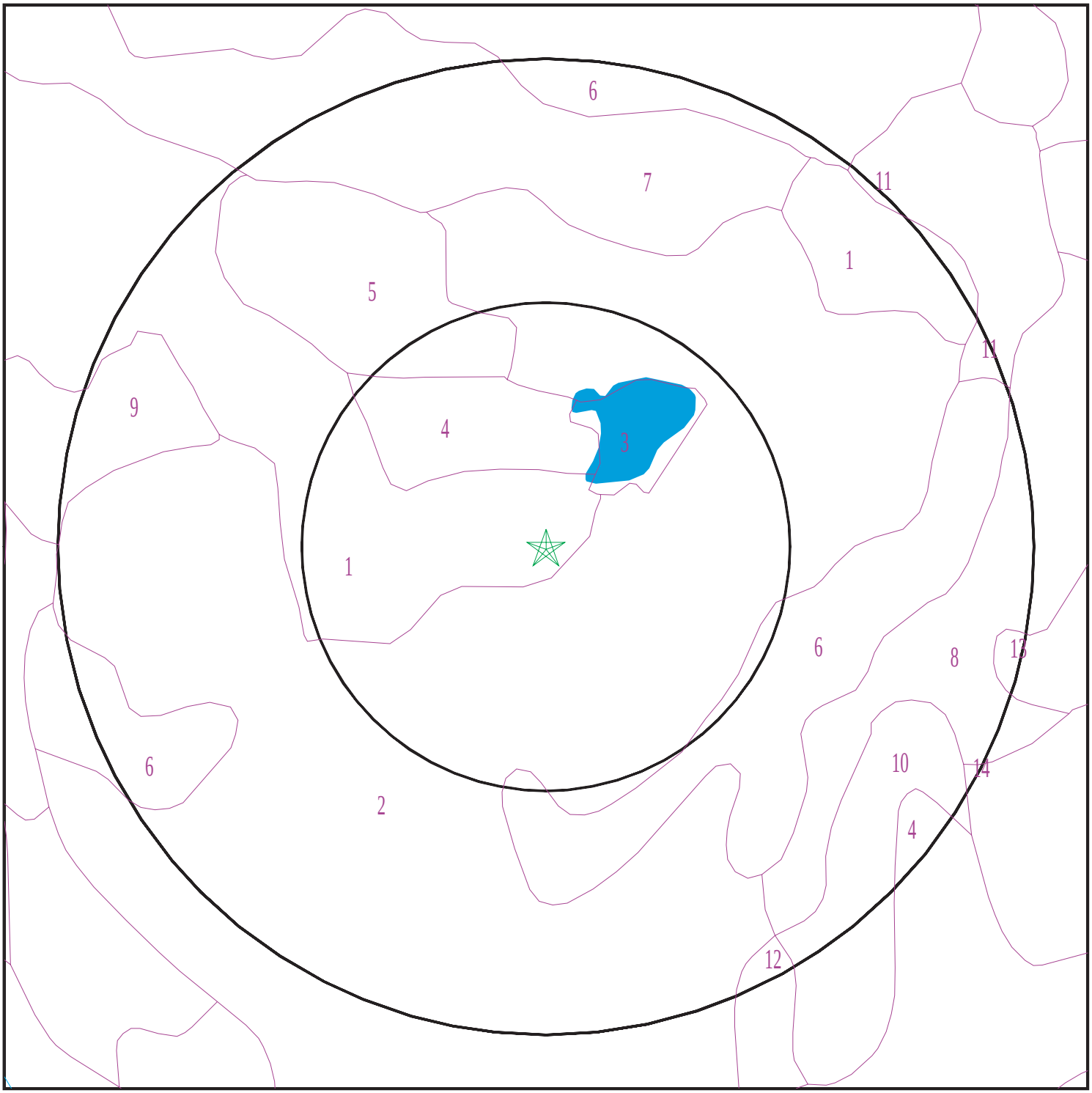
Era:	Paleozoic
System:	Cambrian
Series:	Cambrian
Code:	Ce *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Eugeosynclinal Deposits

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 3493417.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME: Oral School Phase I ESA ADDRESS: 240 Oral School Rd Mystic CT 06355 LAT/LONG: 41.3765 / 71.9723	CLIENT: Loureiro Engineering Assoc. PC CONTACT: Matt Quaranta INQUIRY #: 3493417.2s DATE: January 11, 2013 3:56 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Canton

Soil Surface Texture: moderately decomposed plant material

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	1 inches	moderately decomposed plant material	A-8	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5
2	1 inches	3 inches	gravelly fine sandy loam	A-8	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5
3	3 inches	14 inches	gravelly loam	A-8	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5
4	14 inches	24 inches	gravelly loam	A-8	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5
5	24 inches	29 inches	gravelly loam	A-8	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
6	29 inches	60 inches	very gravelly loamy sand	A-8	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5

Soil Map ID: 2

Soil Component Name: Narragansett

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 38 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 14	Max: 6 Min: 4.5
2	5 inches	14 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 14	Max: 6 Min: 4.5

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	14 inches	24 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 14	Max: 6 Min: 4.5
4	24 inches	27 inches	gravelly silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 14	Max: 6 Min: 4.5
5	27 inches	59 inches	very gravelly loamy coarse sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 14	Max: 6 Min: 4.5

Soil Map ID: 3

Soil Component Name: Water

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 4

Soil Component Name: Udorthents

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 0.01	Max: 7.8 Min: 4.5
2	5 inches	21 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 0.01	Max: 7.8 Min: 4.5
3	21 inches	79 inches	very gravelly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 0.01	Max: 7.8 Min: 4.5

Soil Map ID: 5

Soil Component Name: Narragansett

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 14	Max: 6 Min: 4.5
2	5 inches	14 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 14	Max: 6 Min: 4.5
3	14 inches	24 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 14	Max: 6 Min: 4.5
4	24 inches	27 inches	gravelly silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 14	Max: 6 Min: 4.5
5	27 inches	59 inches	very gravelly loamy coarse sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 14	Max: 6 Min: 4.5

Soil Map ID: 6

Soil Component Name: Charlton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 74 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	3 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
2	3 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
3	7 inches	18 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
4	18 inches	27 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
5	27 inches	64 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5

Soil Map ID: 7

Soil Component Name: Canton

Soil Surface Texture: moderately decomposed plant material

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	1 inches	moderately decomposed plant material	A-8	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5
2	1 inches	3 inches	gravelly fine sandy loam	A-8	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5
3	3 inches	14 inches	gravelly loam	A-8	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5
4	14 inches	24 inches	gravelly loam	A-8	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5
5	24 inches	29 inches	gravelly loam	A-8	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5
6	29 inches	60 inches	very gravelly loamy sand	A-8	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5

Soil Map ID: 8

Soil Component Name: Charlton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 74 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	3 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
2	3 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
3	7 inches	18 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
4	18 inches	27 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5
5	27 inches	64 inches	gravelly fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 4	Max: 6 Min: 4.5

Soil Map ID: 9

Soil Component Name: Udorthents

Soil Surface Texture: loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 0.01	Max: 7.8 Min: 4.5
2	5 inches	21 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 0.01	Max: 7.8 Min: 4.5
3	21 inches	79 inches	very gravelly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 0.01	Max: 7.8 Min: 4.5

Soil Map ID: 10

Soil Component Name: Haven

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 141	Max: 6 Min: 4.5
2	7 inches	14 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 141	Max: 6 Min: 4.5
3	14 inches	20 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 141	Max: 6 Min: 4.5
4	20 inches	24 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 141	Max: 6 Min: 4.5
5	24 inches	59 inches	stratified very gravelly sand to gravelly fine sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 141	Max: 6 Min: 4.5

Soil Map ID: 11

Soil Component Name: Canton

Soil Surface Texture: moderately decomposed plant material

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	1 inches	moderately decomposed plant material	A-8	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5
2	1 inches	3 inches	gravelly fine sandy loam	A-8	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5
3	3 inches	14 inches	gravelly loam	A-8	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5
4	14 inches	24 inches	gravelly loam	A-8	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5
5	24 inches	29 inches	gravelly loam	A-8	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5
6	29 inches	60 inches	very gravelly loamy sand	A-8	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 3.5

Soil Map ID: 12

Soil Component Name: Timakwa

Soil Surface Texture: muck

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Very poorly drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	10 inches	muck	A-8	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 42	Max: 7.3 Min: 5.1
2	10 inches	20 inches	muck	A-8	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 42	Max: 7.3 Min: 5.1
3	20 inches	24 inches	muck	A-8	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 42	Max: 7.3 Min: 5.1
4	24 inches	37 inches	muck	A-8	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 42	Max: 7.3 Min: 5.1
5	37 inches	47 inches	very gravelly loamy coarse sand	A-8	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 42	Max: 7.3 Min: 5.1

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
6	47 inches	59 inches	gravelly loamy very fine sand	A-8	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 42	Max: 7.3 Min: 5.1

Soil Map ID: 13

Soil Component Name: Hollis

Soil Surface Texture: highly decomposed plant material

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 2 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	1 inches	highly decomposed plant material	A-8	Not reported	Max: 141 Min: 0.07	Max: Min:
2	1 inches	5 inches	gravelly fine sandy loam	A-8	Not reported	Max: 141 Min: 0.07	Max: Min:
3	5 inches	9 inches	channery fine sandy loam	A-8	Not reported	Max: 141 Min: 0.07	Max: Min:

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
4	9 inches	14 inches	gravelly fine sandy loam	A-8	Not reported	Max: 141 Min: 0.07	Max: Min:
5	14 inches	18 inches		A-8	Not reported	Max: 141 Min: 0.07	Max: Min:

Soil Map ID: 14

Soil Component Name: Haven

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 141	Max: 6 Min: 4.5
2	7 inches	14 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 141	Max: 6 Min: 4.5

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	14 inches	20 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 141	Max: 6 Min: 4.5
4	20 inches	24 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 141	Max: 6 Min: 4.5
5	24 inches	59 inches	stratified very gravelly sand to gravelly fine sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 703 Min: 141	Max: 6 Min: 4.5

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS2074246	1/4 - 1/2 Mile South
2	USGS2074244	1/2 - 1 Mile South
4	USGS2074425	1/2 - 1 Mile SSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

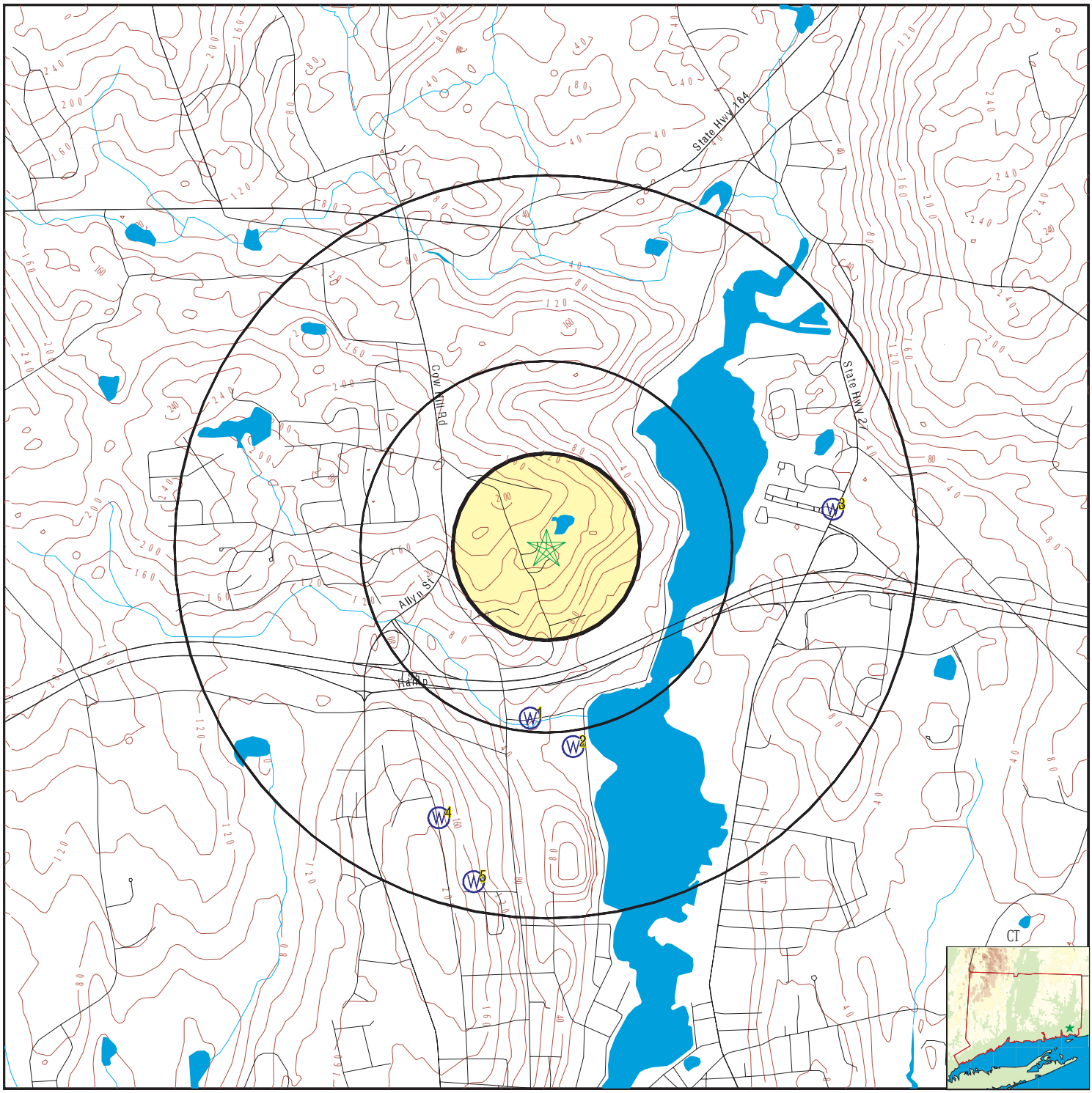
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
3	CTC000000001607	1/2 - 1 Mile East
5	CTC000000001532	1/2 - 1 Mile SSW

PHYSICAL SETTING SOURCE MAP - 3493417.2s



County Boundary
Major Roads
Contour Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location
HD Closest Hydrogeological Data
EPA Designated Sole Src. Aq.

N

SITE NAME: Oral School Phase I ESA	CLIENT: Loureiro Engineering Assoc. PC
ADDRESS: 240 Oral School Rd Mystic CT 06355	CONTACT: Matt Quaranta
LAT/LONG: 41.3765 / 71.9723	INQUIRY #: 3493417.2s
	DATE: January 11, 2013 3:56 pm

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Map ID Direction Distance Elevation	Database	EDR ID Number
1 **South** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS2074246**

Agency cd:	USGS	Site no:	412211071582501
Site name:	CT-GT 49		
Latitude:	412211	EDR Site id:	USGS2074246
Longitude:	0715825	Dec lat:	41.3698211
Dec lon:	-71.9731292	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	09
State:	09	County:	011
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	35.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Thames. Connecticut. Area = 381 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	1957
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	TILL		
Well depth:	18.0	Hole depth:	Not Reported
Source of depth data:	other		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1965-07-14
Water quality data end date:	1965-07-14	Water quality data count:	1
Ground water data begin date:	1963-08-01	Ground water data end date:	1963-08-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1963-08-01	11.00	

2 **South** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS2074244**

Agency cd:	USGS	Site no:	412207071581701
Site name:	CT-GT 33		
Latitude:	412207	EDR Site id:	USGS2074244
Longitude:	0715817	Dec lat:	41.36871
Dec lon:	-71.9709067	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	09
State:	09	County:	011
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Thames. Connecticut. Area = 381 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1958
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	DRIFT,STRATIFIED		
Well depth:	20.0	Hole depth:	Not Reported
Source of depth data:	other		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1965-07-13
Water quality data end date:	1965-07-13	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

3
East
1/2 - 1 Mile
Lower

CT WELLS **CTC000000001607**

CT Community Well

Well ID:	1733	Well Name:	Well 1
Supply System ID:	137802	Supply System Name:	FAIR ACRES MOBILE HOME PARK
Source Status:	Active	Type:	Drilled
Groundwater Aquifer Type:	Bedrock	GIS Date/Method:	2000 Screen Digitize
Depth:	175 Feet	Depth to Bedrock:	0 Feet
Well Diameter:	6	Casing Diameter:	6
Pump Capacity:	19	Safe Yield:	0

4
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS2074425**

Agency cd:	USGS	Site no:	412157071584201
Site name:	CT-GT 34		
Latitude:	412157	EDR Site id:	USGS2074425
Longitude:	0715842	Dec lat:	41.3659322
Dec lon:	-71.97785139	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	09
State:	09	County:	011
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	185.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Thames. Connecticut. Area = 381 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	1959
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	N		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	NON-CARBONATE CRYSTALLINE BEDROCK		
Well depth:	68.0	Hole depth:	Not Reported
Source of depth data:	other		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1965-07-14
Water quality data end date:	1965-07-14	Water quality data count:	1
Ground water data begin date:	1962-12-06	Ground water data end date:	1962-12-06
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1962-12-06	11.00	

5
SSW
1/2 - 1 Mile
Higher

CT WELLS **CTC000000001532**

CT Community Well

Well ID:	1628	Well Name:	Well 1
Supply System ID:	59801	Supply System Name:	WHIPPLE'S MOBILE HOME PARK
Source Status:	Active	Type:	Drilled
Groundwater Aquifer Type:	Bedrock	GIS Date/Method:	1997 Screen Digitize
Depth:	0 Feet	Depth to Bedrock:	0 Feet
Well Diameter:	0	Casing Diameter:	0
Pump Capacity:	0	Safe Yield:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CT Radon

Radon Test Results

City	# Sites	< 4 Pci/L	4 < 10 Pci/L	10 < 20 Pci/L	20 < 50 Pci/L	50 < 100 Pci/L	> 100 Pci/L
Sprague	1	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Stonington	103	87 (84.5)	10 (9.7)	4 (3.9)	2 (1.9)	0 (0)	0 (0)
Taftville	1	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Uncasville	13	6 (46.1)	5 (38.5)	6 (15.4)	0 (0)	0 (0)	0 (0)
Voluntown	84	59 (70.2)	17 (20.2)	5 (5.9)	2 (2.4)	1 (1.2)	0 (0)
Waterford	107	100 (93.5)	7 (6.5)	0 (0)	0 (0)	0 (0)	0 (0)
Baltic	74	50 (67.7)	19 (25.7)	4 (5.4)	1 (1.4)	0 (0)	0 (0)
Bozrah	2	1 (50)	1 (50)	0 (0)	0 (0)	0 (0)	0 (0)
Canterbury	8	4 (50)	1 (12.5)	2 (25)	1 (12.5)	0 (0)	0 (0)
Colchester	6	4 (66.7)	2 (33.3)	0 (0)	0 (0)	0 (0)	0 (0)
East Lyme	1	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Franklin	33	29 (87.9)	2 (6.1)	1 (3)	1 (3)	0 (0)	0 (0)
Gales Ferry	10	6 (60)	2 (20)	2 (20)	0 (0)	0 (0)	0 (0)
Griswold	3	1 (33.3)	2 (66.7)	0 (0)	0 (0)	0 (0)	0 (0)
Groton	113	96 (84.9)	10 (8.9)	7 (6.2)	0 (0)	0 (0)	0 (0)
Hanover	25	11 (44)	8 (32)	4 (16)	2 (8)	0 (0)	0 (0)
Lebanon	8	4 (50)	3 (37.5)	0 (0)	1 (12.5)	0 (0)	0 (0)
Ledyard	6	6 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Lyme	3	3 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Montville	101	84 (83.1)	11 (10.9)	5 (5)	1 (1)	0 (0)	0 (0)
Mystic	9	7 (77.8)	2 (22.2)	0 (0)	0 (0)	0 (0)	0 (0)
New London	68	66 (97)	2 (3)	0 (0)	0 (0)	0 (0)	0 (0)
Niantic	12	6 (50)	6 (50)	0 (0)	0 (0)	0 (0)	0 (0)
Noank	1	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
North Franklin	46	43 (93.5)	3 (6.5)	0 (0)	0 (0)	0 (0)	0 (0)
North Stonington	101	73 (72.3)	20 (19.8)	6 (5.9)	2 (2)	0 (0)	0 (0)
Norwich	13	11 (84.6)	2 (85.4)	0 (0)	0 (0)	0 (0)	0 (0)
Oakdale	29	13 (44.8)	8 (27.6)	6 (20.7)	2 (6.9)	0 (0)	0 (0)
Old Lyme	4	2 (50)	2 (50)	0 (0)	0 (0)	0 (0)	0 (0)
Old Mystic	5	2 (40)	1 (20)	2 (40)	0 (0)	0 (0)	0 (0)
Pawcatuck	4	1 (25)	3 (75)	0 (0)	0 (0)	0 (0)	0 (0)
Preston	100	87 (87)	12 (12)	1 (1)	0 (0)	0 (0)	0 (0)
Salem	11	7 (63.6)	36.3 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Federal EPA Radon Zone for NEW LONDON County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 06355

Number of sites tested: 3

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.450 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	5.067 pCi/L	67%	33%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Soils
Source: Department of Environmental Protection
Telephone: 860-871-4047

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Connecticut Leachate and Wastewater Discharge Sites
Source: Department of Environmental Protection
The Leachate and Waste Water Discharge Inventory Data Layer (LWDS) includes point locations digitized from Leachate and Wastewater Discharge Source maps compiled by the Connecticut DEP. These maps locate surface and groundwater discharges that (1) have received a waste water discharge permit from the state or (2) are historic and now defunct waste sites or (3) are locations of accidental spills, leaks, or discharges of a variety of liquid or solid wastes.

EPA-Approved Sole Source Aquifers in Connecticut
Source: EPA
Sole source aquifers are defined as an aquifer designated as the sole or principal source of drinking water for a given aquifer service area; that is, an aquifer which is needed to supply 50% or more of the drinking water for the area and for which there are no reasonable alternative sources should the aquifer become contaminated.

Community and Non-Community Water System Wells
Source: Department of Public Health, Water Supplies Section
Telephone: 860-509-7333
Active, emergency and inactive wells used for potable purposes that are owned and operated by active community and non-community water systems in Connecticut.

OTHER STATE DATABASE INFORMATION

RADON

State Database: CT Radon
Source: Department of Public Health
Telephone: 860-509-7367
Radon Statistical Summary

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

STREET AND ADDRESS INFORMATION

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Historical Aerial Photographs

Oral School Phase I ESA
240 Oral School Rd
Mystic, CT 06355

Inquiry Number: 3493417.5
January 11, 2013

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography January 11, 2013

Target Property:

240 Oral School Rd

Mystic, CT 06355

Year	***Scale***	***Details***	***Source***
1934	Aerial Photograph. Scale: 1"=500'	Panel #: 41071-D8, Old Mystic, CT;/Flight Date: April 09, 1934	EDR
1941	Aerial Photograph. Scale: 1"=750'	Panel #: 41071-D8, Old Mystic, CT;/Flight Date: October 09, 1941	EDR
1951	Aerial Photograph. Scale: 1"=500'	Panel #: 41071-D8, Old Mystic, CT;/Flight Date: September 24, 1951	EDR
1957	Aerial Photograph. Scale: 1"=500'	Panel #: 41071-D8, Old Mystic, CT;/Flight Date: April 10, 1957	EDR
1969	Aerial Photograph. Scale: 1"=1000'	Panel #: 41071-D8, Old Mystic, CT;/Flight Date: September 14, 1969	EDR
1970	Aerial Photograph. Scale: 1"=500'	Panel #: 41071-D8, Old Mystic, CT;/Flight Date: March 01, 1970	EDR
1974	Aerial Photograph. Scale: 1"=500'	Panel #: 41071-D8, Old Mystic, CT;/Flight Date: April 17, 1974	EDR
1980	Aerial Photograph. Scale: 1"=1000'	Panel #: 41071-D8, Old Mystic, CT;/Flight Date: March 19, 1980	EDR
1986	Aerial Photograph. Scale: 1"=250'	Panel #: 41071-D8, Old Mystic, CT;/Flight Date: March 23, 1986	EDR
1990	Aerial Photograph. Scale: 1"=500'	Panel #: 41071-D8, Old Mystic, CT;/Flight Date: April 09, 1990	EDR
1991,1992	Aerial Photograph. Scale: 1"=500'	Panel #: 41071-D8, Old Mystic, CT;/Composite DOQQ - acquisition dates: April 12, 1991,March 18, 1992	EDR
1996	Aerial Photograph. Scale: 1"=500'	Panel #: 41071-D8, Old Mystic, CT;/Flight Date: April 15, 1996	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 41071-D8, Old Mystic, CT;/Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 41071-D8, Old Mystic, CT;/Flight Year: 2006	EDR
2008	Aerial Photograph. Scale: 1"=500'	Panel #: 41071-D8, Old Mystic, CT;/Flight Year: 2008	EDR

INQUIRY #: 3493417.5
YEAR: 1934
= 500'
N

INQUIRY #: 3493417.5
YEAR: 1941
= 750'
N

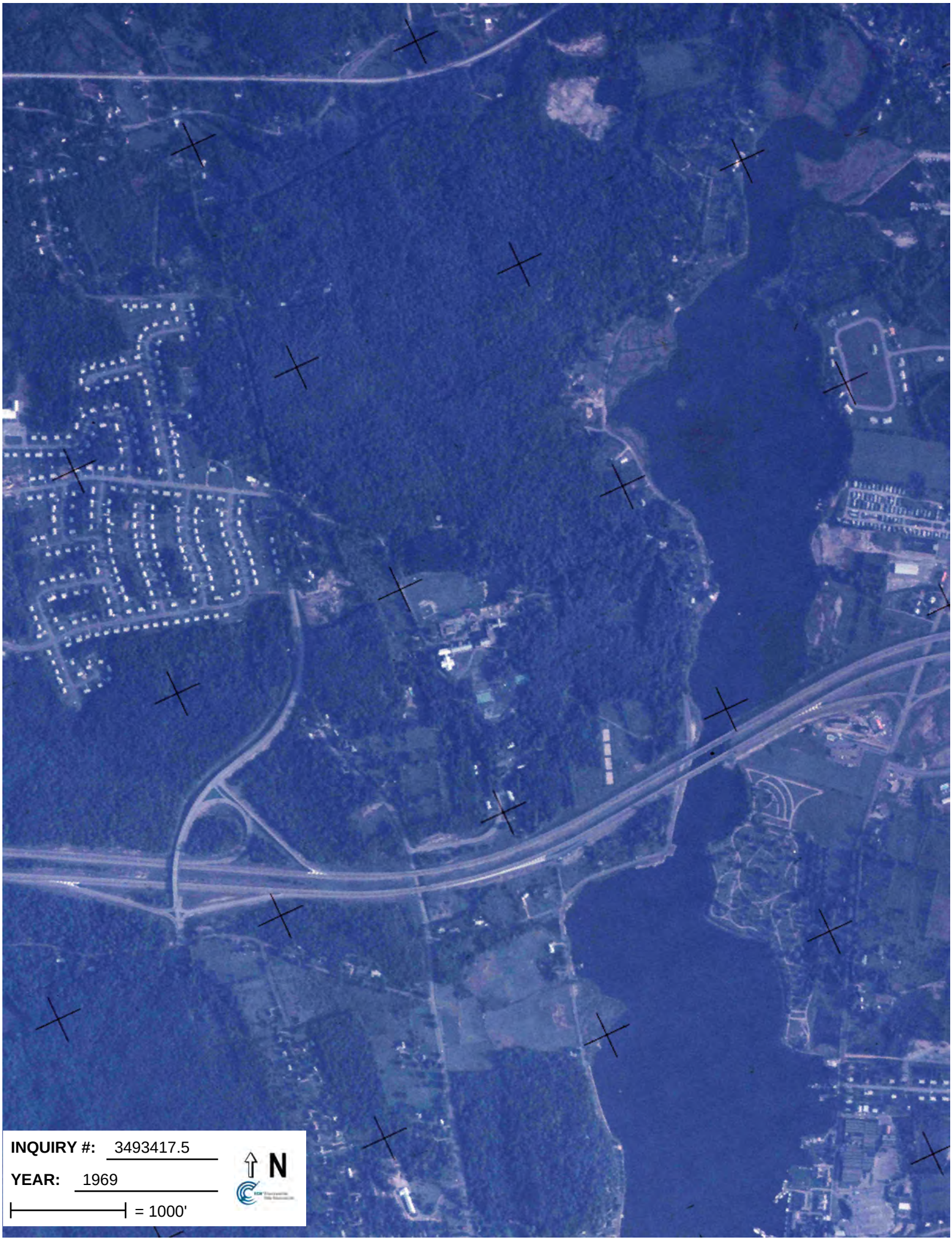
INQUIRY #: 3493417.5

YEAR: 1951

= 500'

N

INQUIRY #: 3493417.5
YEAR: 1957
= 500'
N


INQUIRY #: 3493417.5
YEAR: 1969
= 1000'
N

INQUIRY #: 3493417.5
YEAR: 1970
= 500'
N

INQUIRY #: 3493417.5
YEAR: 1974
= 500'
N

INQUIRY #: 3493417.5
YEAR: 1980
= 1000'
N

INQUIRY #: 3493417.5
YEAR: 1986
= 250'
N

INQUIRY #: 3493417.5
YEAR: 1990
= 500'
N

INQUIRY #: 3493417.5
YEAR: 1991,1992 (DOQQ)
= 500'
N

INQUIRY #: 3493417.5
YEAR: 1996
= 500'
N

INQUIRY #: 3493417.5
YEAR: 2005
= 500'
N

INQUIRY #: 3493417.5
YEAR: 2006
= 500'
N

INQUIRY #: 3493417.5
YEAR: 2008
= 500'
N

Historical Topographic Maps

Oral School Phase I ESA
240 Oral School Rd
Mystic, CT 06355

Inquiry Number: 3493417.4
January 14, 2013

EDR Historical Topographic Map Report

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

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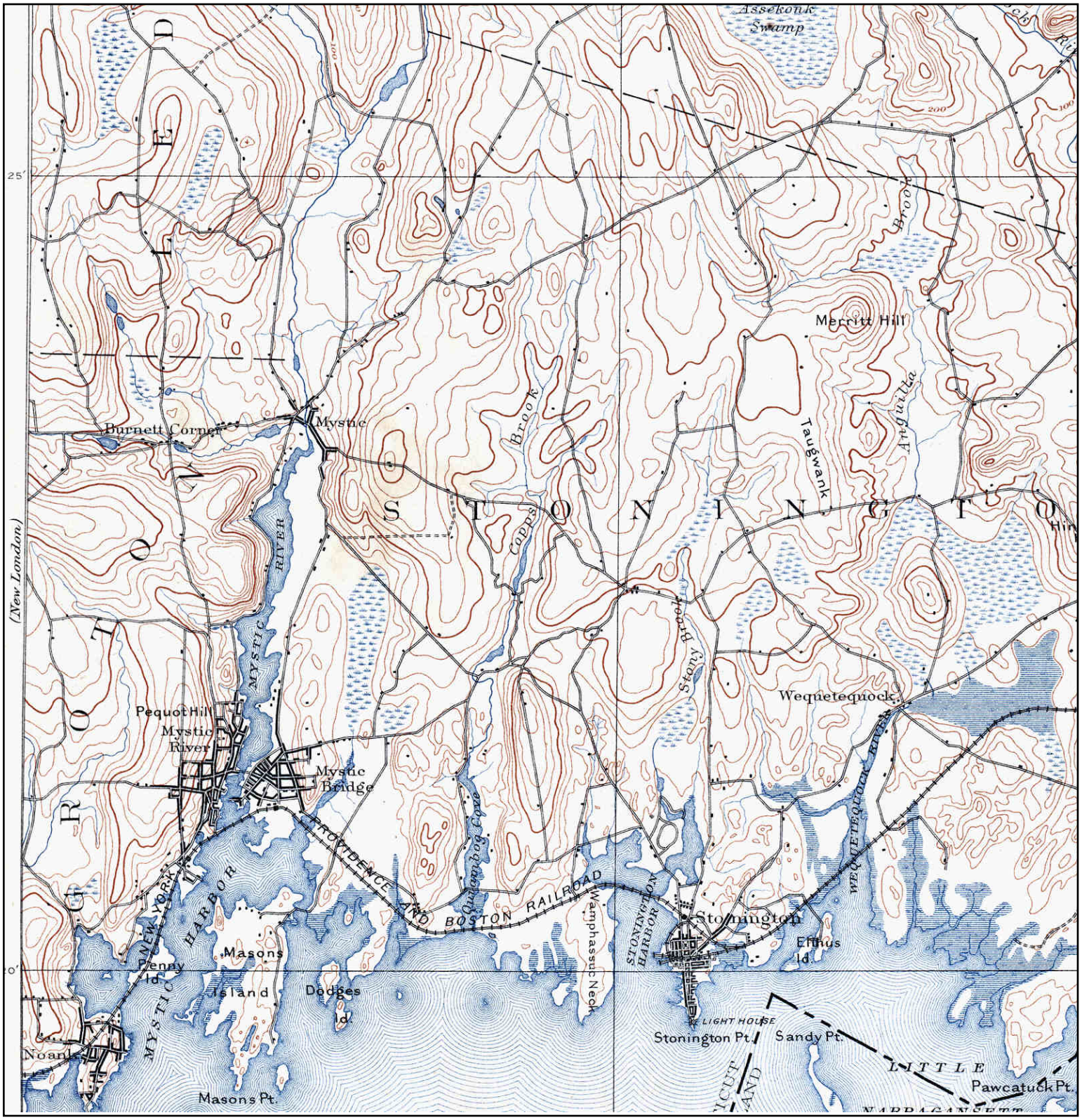
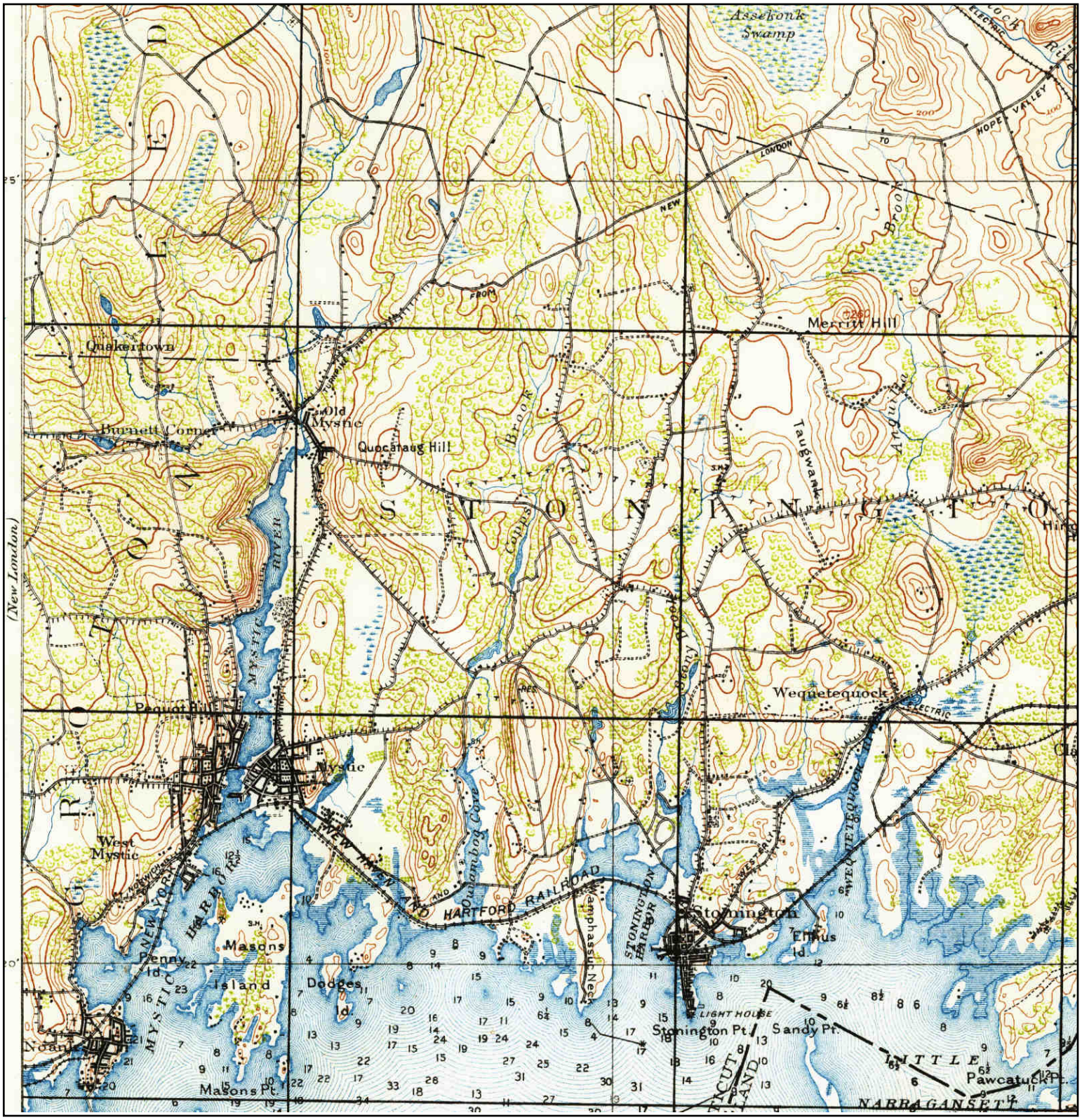
Historical Topographic Map



N	TARGET QUAD NAME: STONINGTON MAP YEAR: 1893 SERIES: 15 SCALE: 1:62500	SITE NAME: Oral School Phase I ESA ADDRESS: 240 Oral School Rd Mystic, CT 06355 LAT/LONG: 41.3765 / -71.9723	CLIENT: Loureiro Engineering Assoc. PC CONTACT: Matt Quaranta INQUIRY#: 3493417.4 RESEARCH DATE: 01/14/2013

Historical Topographic Map



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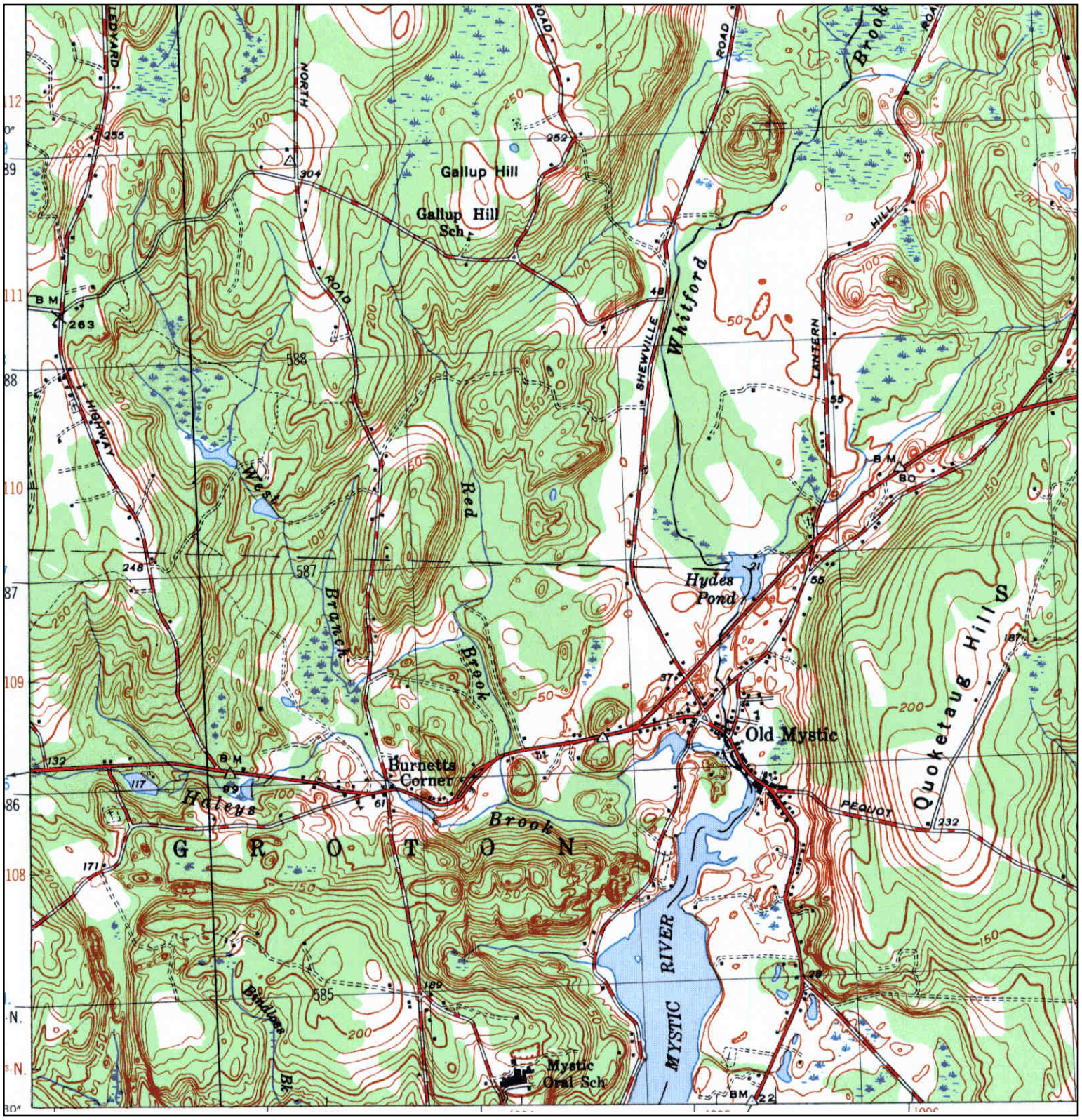
Historical Topographic Map

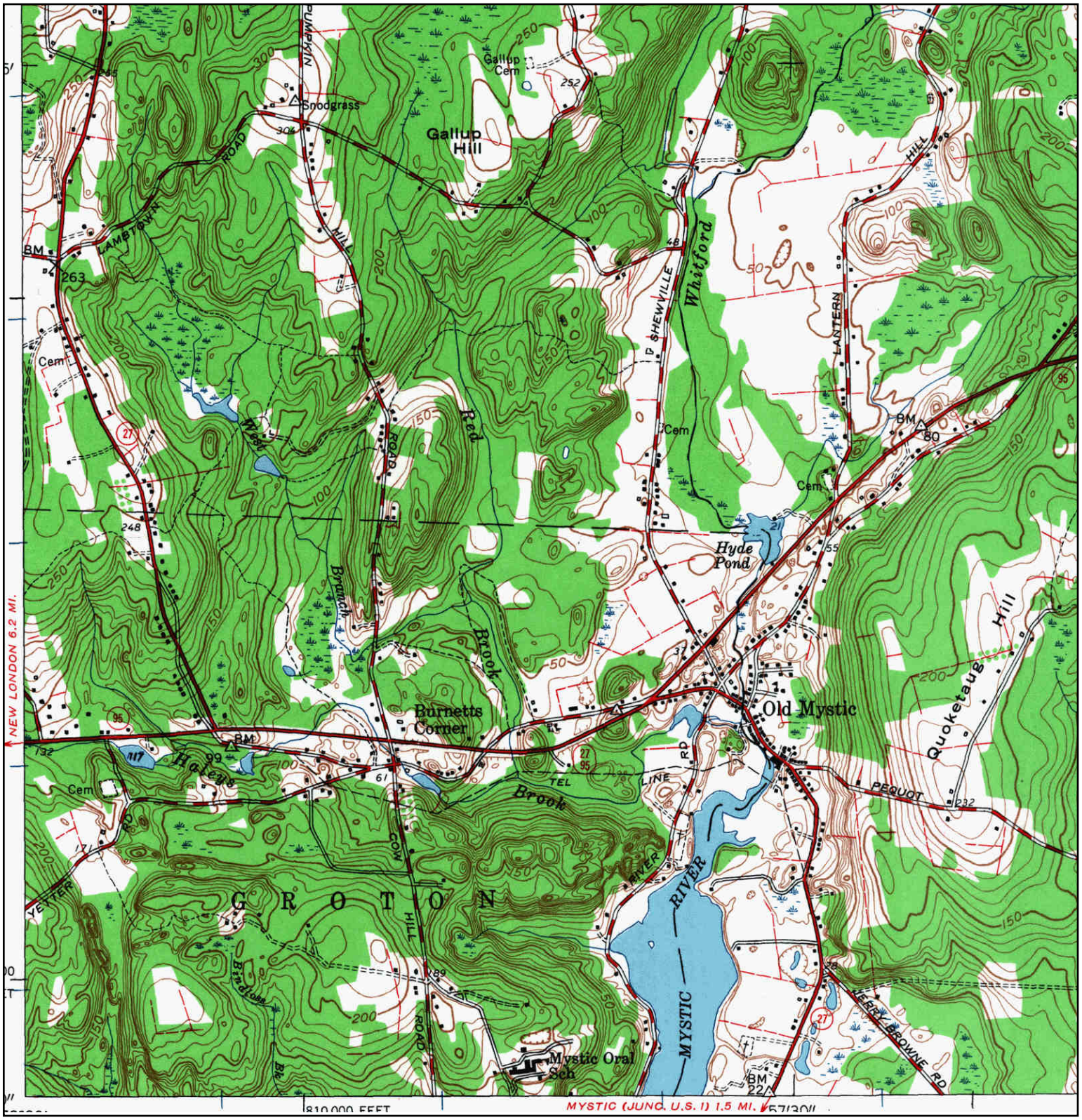
N	TARGET QUAD NAME: OLD MYSTIC MAP YEAR: 1943 SERIES: 7.5 SCALE: 1:31680	SITE NAME: Oral School Phase I ESA ADDRESS: 240 Oral School Rd Mystic, CT 06355 LAT/LONG: 41.3765 / -71.9723	CLIENT: Loureiro Engineering Assoc. PC CONTACT: Matt Quaranta INQUIRY#: 3493417.4 RESEARCH DATE: 01/14/2013

Historical Topographic Map



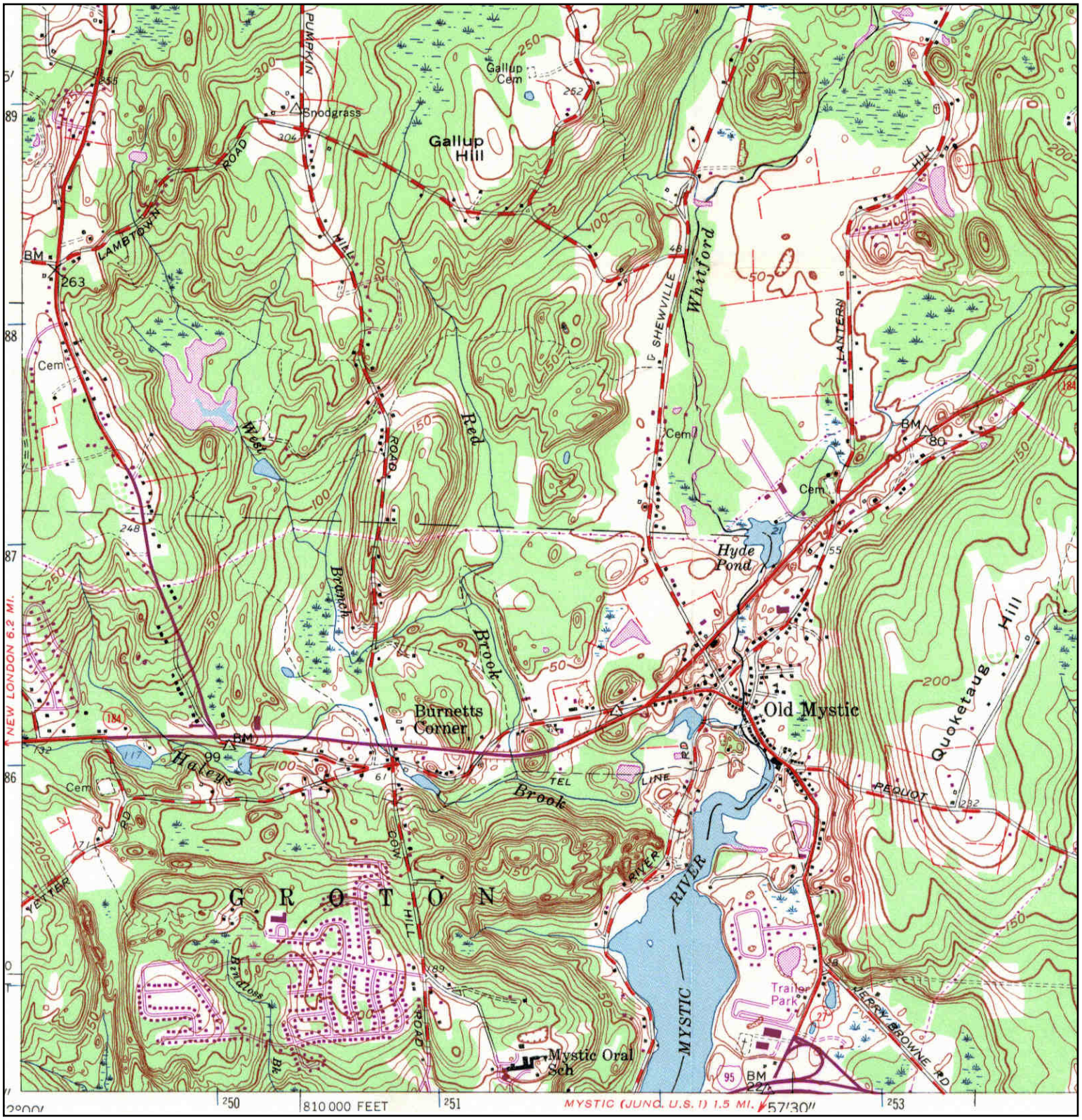
N	TARGET QUAD NAME: OLD MYSTIC MAP YEAR: 1948 SERIES: 7.5 SCALE: 1:25000	SITE NAME: Oral School Phase I ESA ADDRESS: 240 Oral School Rd Mystic, CT 06355 LAT/LONG: 41.3765 / -71.9723	CLIENT: Loureiro Engineering Assoc. PC CONTACT: Matt Quaranta INQUIRY#: 3493417.4 RESEARCH DATE: 01/14/2013

Historical Topographic Map



N	TARGET QUAD NAME: OLD MYSTIC MAP YEAR: 1958 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Oral School Phase I ESA ADDRESS: 240 Oral School Rd Mystic, CT 06355 LAT/LONG: 41.3765 / -71.9723	CLIENT: Loureiro Engineering Assoc. PC CONTACT: Matt Quaranta INQUIRY#: 3493417.4 RESEARCH DATE: 01/14/2013

Historical Topographic Map

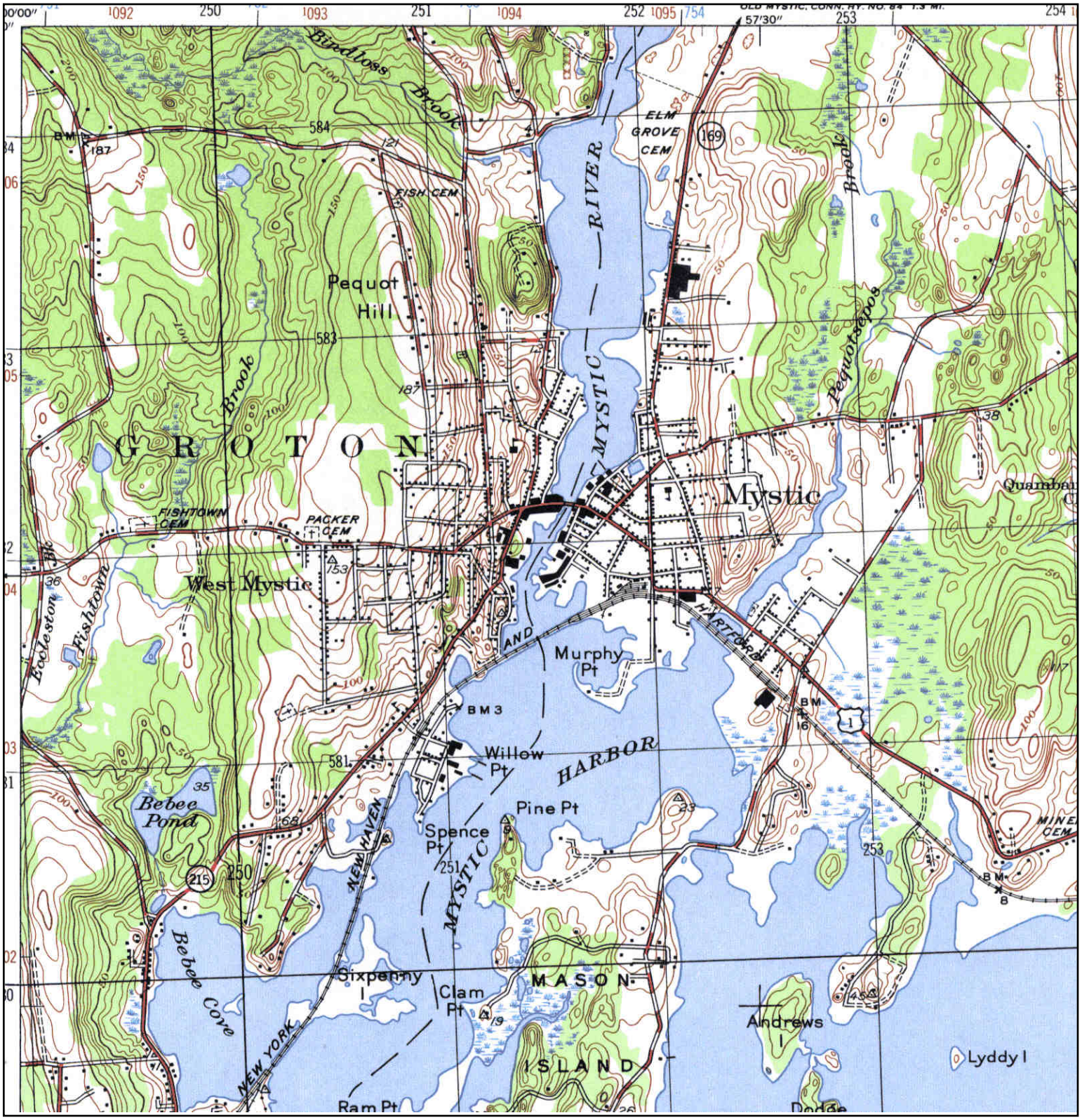


N	TARGET QUAD NAME: OLD MYSTIC MAP YEAR: 1970 PHOTOREVISED FROM :1958 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Oral School Phase I ESA ADDRESS: 240 Oral School Rd Mystic, CT 06355 LAT/LONG: 41.3765 / -71.9723	CLIENT: Loureiro Engineering Assoc. PC CONTACT: Matt Quaranta INQUIRY#: 3493417.4 RESEARCH DATE: 01/14/2013

Historical Topographic Map

N	TARGET QUAD NAME: OLD MYSTIC MAP YEAR: 1983 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Oral School Phase I ESA ADDRESS: 240 Oral School Rd Mystic, CT 06355 LAT/LONG: 41.3765 / -71.9723	CLIENT: Loureiro Engineering Assoc. PC CONTACT: Matt Quaranta INQUIRY#: 3493417.4 RESEARCH DATE: 01/14/2013

Historical Topographic Map



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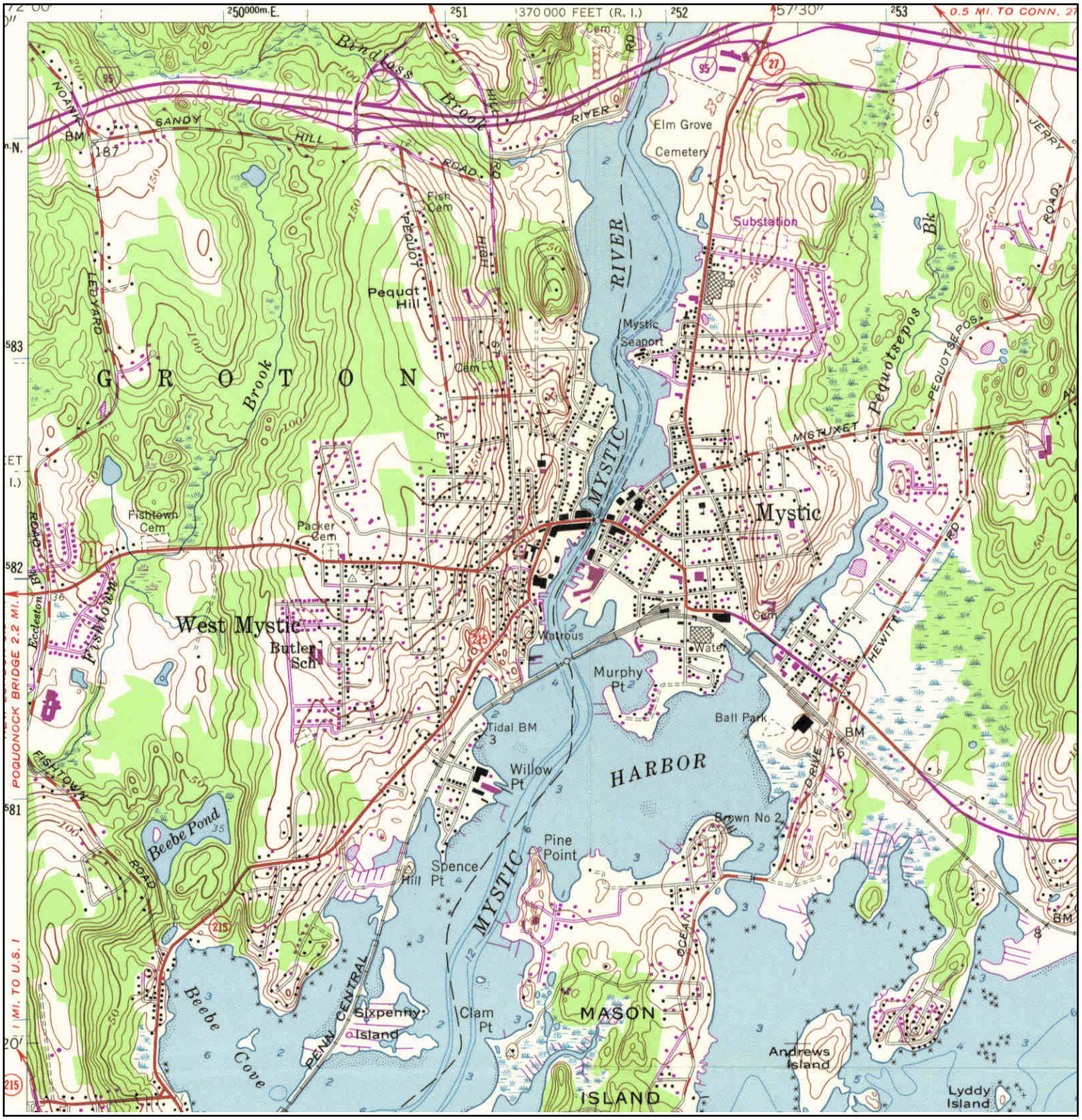
Historical Topographic Map

N	ADJOINING QUAD NAME: MYSTIC MAP YEAR: 1958 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Oral School Phase I ESA ADDRESS: 240 Oral School Rd Mystic, CT 06355 LAT/LONG: 41.3765 / -71.9723	CLIENT: Loureiro Engineering Assoc. PC CONTACT: Matt Quaranta INQUIRY#: 3493417.4 RESEARCH DATE: 01/14/2013

Historical Topographic Map



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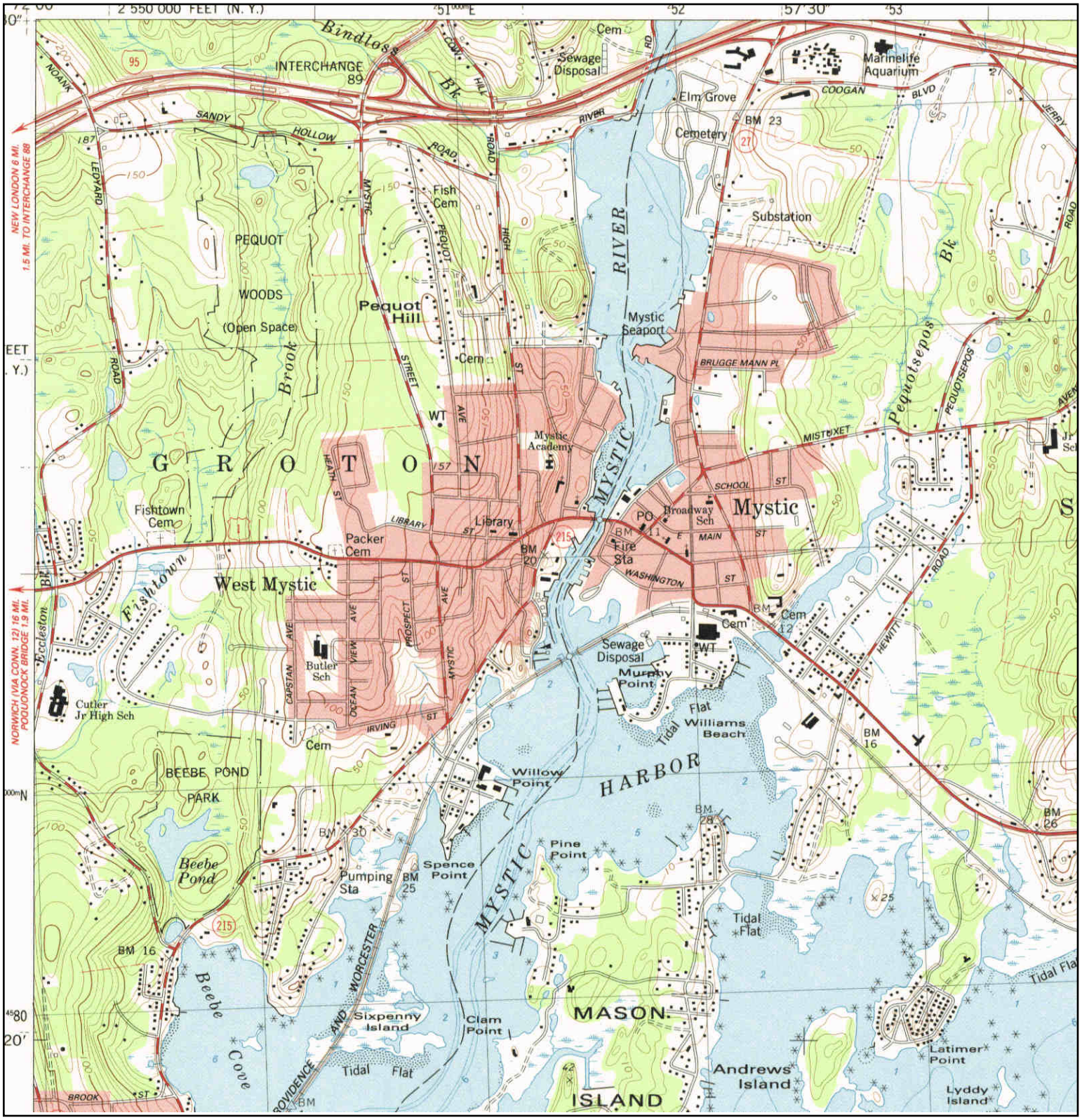
Historical Topographic Map



N	ADJOINING QUAD NAME: MYSTIC MAP YEAR: 1984 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Oral School Phase I ESA ADDRESS: 240 Oral School Rd Mystic, CT 06355 LAT/LONG: 41.3765 / -71.9723	CLIENT: Loureiro Engineering Assoc. PC CONTACT: Matt Quaranta INQUIRY#: 3493417.4 RESEARCH DATE: 01/14/2013

City Directories

Oral School Phase I ESA
240 Oral School Rd
Mystic, CT 06355

Inquiry Number: 3493417.6
January 14, 2013

The EDR-City Directory Image Report

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

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with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
1990	☑	☐	Johnson's City Directory
1978	☑	☐	Price & Lee's City Directory
1971	☑	☐	Price & Lee's City Directory
1964	☑	☐	Price & Lee's City Directory

RECORD SOURCES

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FINDINGS

TARGET PROPERTY STREET

240 Oral School Rd
Mystic, CT 06355

Year	*CD Image*	*Source*
240 Oral School Rd		
1990	pg A1	Johnson's City Directory
1978	pg A2	Price & Lee's City Directory
1971	pg A3	Price & Lee's City Directory
1964	pg A4	Price & Lee's City Directory

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	Johnson's City Directory

240 Oral School Rd 1990

27 (#A)NORTH GUILFORD
HERBARY SHOP 536-0825
28 PERIWINKLE PLACE 536-0511

ORAL SCHOOL RD (M)

FROM COW HILL RD E THEN N TO 388
DO ZIP CODE 06355

MYSTIC EDUCATIONAL
CENTER 572-7221
SEASIDE REGIONAL CENTER
AT MYSTIC 572-7721
T V C C A
FOSTER GRANDPARENTS 572-9976
ARTIACO Veronica 536-4602
70 BREWER Frank Jr® 572-0334
96 JOHNSON Richard L® 536-9226

BOULDER CT BEGINS

101 PIA Robert® 536-3655
105 PIA Robert J® 536-7395
135 DAVIS F P® 536-9720
155 CSISAR James G 536-0616
155 CSISAR Jeff 536-0616
155 CSISAR Lynn 536-0616
195 HANSEN George® 536-8361
221 FIRGELESKI John® 536-8998
221 POULIOT Peter 572-0166
240 LITTLE WHITE SCHOOL HOUSE . 536-4289
240 UNITED CEREBRAL PALSY OF
NEW LONDON COUNTY INC 536-4289
402 SANCHEZ Mary E 536-9251
402 SCRUGGS Willie H® 536-9251
403 HADDON Charles Mrs® 536-0740
426 BURDICK Donald H® 536-8890

ORCHARD DR

FROM 1300 GOLD STAR HWY S TO
DEAD END ZIP CODE 06340

1 CERAVOLO Terri J® 449-0239
17 TORMBERG LANDSCAPERS 448-0469
17 TAVARES E 445-8511

Target Street	Cross Street	Source
✓	-	Price & Lee's City Directory

240 Oral School Rd 1978

- ALLYN RUFUS 536-1677

- - - - - - - - - - - - - - - - - - -

OLD SOUTH RD /MASONS ISLAND/ FR
CHIPPACHAUG TRAIL SW TO 6 1/2
ALLYNS ALLEY ZIP CODE 06355

- HELLIER JO-ANN MRS
- REICHART HOWARD * 536-8485
- NIEBLING ROBERT E
  * 536-7109
  HALLBERG SARAH MRS

- - - - - - - - - - - - - - - - - - -

ORAL SCHOOL RD FR COW HILL RD E
THEN N TO 388 DO ZIP CODE 06340

- VACANT
70 SMITH MARY MRS * 536-1465
101 PIA ROBERT J * 536-3655
96 JOHNSON RICHARD L
  * 536-9226

- BOULDER CT BEGINS

135 DAVIS BYRON G * 536-9720
155 CSISAR JAMES G 536-0616
195 FROST EDWARD E 536-1173
MYSTIC ORAL 536-4221
SCHOOL FOR THE DEAF
- VACANT
LILLIAN ROSE CROUTER
MEMORIAL BUILDING
OFF FIRGELESKI JOHN * 536-8998
OFF VACANT
426 BURDICK DONALD H 536-8890

Target Street	Cross Street	Source
✓	-	Price & Lee's City Directory

240 Oral School Rd 1971

- - - - - - - - - - - - - - - - - -

ORAL SCHOOL RD FR COW HILL RD E
THEN N TO DO ZIP CODE 06340

70 WHITE ROBERT L ROOFING
¤ 536-0696
PIA ROBERT J ¤ 536-3655
96 JOHNSON RICHARD L
¤ 536-9226

- BOULDER CT BEGINS

DAVIS BYRON G ¤ 536-9720
155 O REILLY JOSEPH M
¤ 536-9932
195 STEELE EDWARD A 536-3133
OWSLEY PETER J
MYSTIC ORAL SCHOOL FOR
THE DEAF 536-2687
LILLIAN ROSE CROUTER
MEMORIAL BUILDING
OFF FIRGELESKI JOHN ¤ 536-8998
GAUTHIER EDWARD R
536-2710
PERKINS ALFRED H 536-8890

- - - - - - - - - - - - - - - - - -

ORCHARD FR 240 SOUTH RD NE TO
KAREN AV ZIP CODE 06340

- KAREN AV ENDS

- - - - - - - - - - - - - - - - - -

ORCHARD DR FR GOLD STAR HWY S TO

Target Street	Cross Street	Source
✓	-	Price & Lee's City Directory

240 Oral School Rd 1964

— Hickory la crosses
—◎Wood George P 🔔
— SRes

ORAL SCHOOL RD fr River rd N and NW to Cow Hill rd
— Vacant
— Miller James E 🔔
—off◎Turner C Milton 🔔
—off Vacant
—off◎Welt Simon A 🔔
—off◎Wallace Richard W 🔔
—◎Davis Byron G 🔔
—◎O'Reilly Joseph M 🔔
—◎Testone Nick R 🔔
— Mystic Oral School for the Deaf 🔔
— Crouter Alan Y 🔔
—off◎Firgeleski John🔔
— Gauthier Edward R
— Hathaway Albert M 🔔
— Perkins Alfred H

ORCHARD fr 240 South rd NE to River
— River st begins

ORCHARD DR fr Route

Sanborn® Fire Insurance Maps

Oral School Phase I ESA
240 Oral School Rd
Mystic, CT 06355

Inquiry Number: 3493417.3
January 11, 2013

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

1/11/13

Site Name:
Oral School Phase I ESA
240 Oral School Rd
Mystic, CT 06355

EDR Inquiry # 3493417.3

Client Name:
Loureiro Engineering Assoc.
100 Northwest Drive
Plainville, CT 06062

Contact: Matt Quaranta

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Certified Sanborn Results:

Site Name: Oral School Phase I ESA
Address: 240 Oral School Rd
City, State, Zip: Mystic, CT 06355
Cross Street:
P.O. # Pending DS
Project: Oral School Rd Phase I ESA
Certification # A83A-4EFC-BAE2

Sanborn® Library search results
Certification # A83A-4EFC-BAE2

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

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- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

The Sanborn Library LLC Since 1866™

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APPENDIX E

Previous Environmental Reports

PROJ. COORD. DEC 1 9 1990

FUSS&O'NEILL inc
consulting engineers

December 18, 1990

Mr. James Koester
Project Coordinator
Department of Public Works
165 Capitol Avenue, Room 470
Hartford, CT 06106

RE: PCB Project - Mystic Educational Center
DPW Project No. BI-2B-816-A6

Dear Mr. Koester:

Fuss & O'Neill, Inc. has investigated transformers at the Mystic Educational Center by visitation on October 15, 1990 and sampling on November 5, 1990. The results of the investigation disclose there are nine (9) transformers at the site. Five (5) transformers are dry type (Pratt Hall), three (3) tested at less than 500 PPM and one (1) tested at 647 PPM (Whipple Building; Fuss & O'Neill Control #34290101202; transformer Serial #226966-65P. This latter transformer must be considered for remediation. No spills were observed at the facility.

Discussions with facility and DPW electrical engineering personnel disclosed that improvements are not imminent at the facility.

The enclosed analysis by van Zelm, Heywood and Shadford concludes with a recommendation to retrofill the transformer since the transformer has a number of years of productive life remaining. We concur with the van Zelm recommendation to retrofill the transformer to the point where the PCB concentration is less than the level required to remediate spills (25 PPM) and at a level to be classified as a non PCB transformer (50 PPM). It is expected that the transformer will have to be drained and refilled twice to achieve this level. The estimated initial capital cost to perform this work is $11,100.00 while the cost including present worth is $14,600.00.

Corres. 90-403
1213A90RAR2

146 HARTFORD RD. / MANCHESTER, CT 06040 / TEL: (203) 646-2469, FAX: (203) 643-6313

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HIGHWAYS and BRIDGES • SURVEYING • LANDSCAPE ARCHITECTURE • TRANSPORTATION and TRAFFIC • PUBLIC WORKS MANAGEMENT • HYDROGEOLOGY
RECYCLED PAPER

FUSS&O'NEILL

Please review this information and contact us if you require any additional information. Fuss & O'Neill and van Zelm, Heywood, & Shadford representatives are available to discuss this at any time. We are also prepared to start design activities upon your authorization.

Very truly yours,

Ronald A. Ries,
Senior Engineer

/bmw

Enclosures

cc: Tim Desroches - Mystic Educational Center
Gary Gallucci - Department of Public Works
Charles Billmyer - van Zelm, Heywood and Shadford
Paula Morse - van Zelm, Heywood and Shadford
Robert Elwood - van Zelm, Heywood and Shadford
William Ginter
James Whitehouse

Corres. 90-403
1213A90RAR2

EVALUATION OF EXISTING PCB TRANSFORMERS AT THE MYSTIC EDUCATIONAL CENTER

I. PRELIMINARY SITE INVESTIGATION

The project team performed a field investigation at the Mystic Educational Center on November 27, 1990 to determine the extent of PCB transformer[1] installations at the facility. One transformer was discovered to be a PCB transformer and it contained mineral oil dielectric with a PCB concentration of approximately 630 ppm. This transformer was a 225 KVA pad-mounted unit with a primary voltage of 13.2 KV and a secondary voltage of 120/208 V.

II. SUMMARY OF OPTIONS FOR COMPLIANCE WITH FEDERAL PCB REGULATIONS

Evaluation of the various options must include consideration of both the direct and indirect costs. The estimates discussed below include such indirect costs related to process operation, impact on transformer lifespan, and testing. The prices and delivery periods quoted are based on current market conditions, and future values may be higher or longer.

Option A: Electrical Protection Measures: Federal regulations[2] allow the continued use of a PCB transformer when it is primary radial fed, has a lower secondary voltage (208Y/120 or 240/120 V), and is equipped with enhanced electrical protection which detects high current faults and provides for complete deenergization of the transformer (within several hundredths of a second) before transformer rupture occurs.

The transformer is single radial fed and does has a secondary voltage of 208/120, but it does not have the required electrical protection. In order to meet the regulations for this type of protection, a new primary load-break fusible switch with motor operators and single phasing protection would have to be installed in lieu of the existing switch. The fuse size would have to be closely coordinated with the transformer inrush current and the available fault current in order to comply with the regulations.

The new switch would have to be an outdoor unit, with a separate (new) concrete pad underneath; there is insufficient space to mount the switch on the existing transformer pad.

---

[1]Transformers containing more than 500 ppm polychlorinated biphenyl (PCB).
[2]CFR 761.30(a)(1)(iv)

A disadvantage of this option is that it does not eliminate the other problems associated with PCB transformers and would only defer the disposal of the PCB transformer. The risk, however low, of toxic contamination due to a PCB fluid leak or a fire[3] would remain as long as the transformer is still on-site.

We estimate the average remaining life of the existing transformer as an additional fifteen years maximum, at which time it will have to be disposed of, in accordance with the regulations. The cost of this future disposal is included below in order to make an accurate assessment of the cost of this option.

Estimated Cost of Option A, Electrical Protection Measures for the Existing PCB Transformer:

Initial Capital Costs	
New switch, pad and installation	$ 22,200
Engineering fees and contingencies	6,700
Subtotal of Initial Capital Costs	$ 28,900
Indirect Costs	
Present value of future disposal of transformer	$ 1,800
Adjustment for transformer life	3,500
Subtotal of Indirect Costs	$ 5,300
Option A Total Cost for PCB Transformer	$ 34,200

The cost shown under "adjustment for transformer life" is the present adjusted cost of replacing the existing transformer in fifteen years, as compared to replacing the transformer now (and realizing thirty years of service). The salvage value of the replacement transformer in fifteen years is negligible for purposes of this analysis.

This option also poses a delivery time restriction due to the long-lead time for the new primary switches. The time requirements for Option A are:

Design and Engineering	2 weeks
Bidding Period	5 weeks
Switch Delivery	22 weeks
Installation of Switches	4 weeks
Total	33 weeks

[3]Combustion of PCBs creates toxic dioxins and furans.

Option B: Reclassification: Federal regulations[4] allow a PCB transformer to be converted to PCB-contaminated or non-PCB status. For a nameplate[5] PCB transformer, this conversion process involves draining the PCB liquid from the transformer, refilling the transformer with a cleaning fluid, extracting PCBs (by chemical mass transfer) from the transformer core and coils using the cleaning fluid as a medium, and demonstrating the new PCB ppm levels after a three-month period of in-service operation.

For a mineral oil transformer with PCB concentrations slightly over 500 ppm, the transformer can be drained, flushed and refilled instead of undergoing the mass transfer extraction process. The initial drain and refill should reduce the PCB concentration down to PCB-contaminated status, and a second drain and refill should reduce it to non-PCB status.

Estimated Cost of Option B, Reclassification of the Existing PCB Transformer:

Initial Capital Costs	
Drain, flush & refill process	$ 7,100
Cost of 50°C testing & in-service period	1,400
Engineering fees and contingencies	2,600
Subtotal of Initial Capital Costs	$11,100
Indirect Costs	
Adjustment for transformer life	$ 3,500
Option B Total for PCB Transformer	$14,600

The cost shown above as "drain, flush & refill process" is the contractor's total fee and includes draining and disposing of PCB fluids, flushing the transformer, and new dielectric fluids. The cost for the 50°C testing includes costs for temperature monitoring equipment, personnel, and insulating or heating blankets.

Note that there SHOULD NOT be any future cost for PCB disposal, since the transformer should be reclassified to non-PCB status under this option[6].

[4] CFR 761.30(a)(2)(v)

[5] Certain transformers were deliberately filled with a PCB dielectric (such as Askarel) at the point of manufacture. These transformers have very high PCB concentration levels. These transformers can be identified by the dielectric listed on the transformer nameplate, so we have called them "nameplate PCB transformers". Other PCB transformers generally have less severe PCB concentrations.

[6] If the transformers are reclassified to PCB-contaminated status, they could be continued in use but would still be subject to PCB regulations relating to storage, documentation, disposal and service.

The time requirements for Option B are:

Specifications and Engineering	2 weeks
Bidding Period	5 weeks
Drain & Fill Process	3 weeks
Reclassification Testing	13 weeks
Total	23 weeks

Option C: Removal of PCB Transformer: This option would provide a new transformer in lieu of the existing PCB transformer, by contracting with a qualified turn-key PCB transformer replacement firm to remove and properly dispose of the existing transformer. A new dry-type or liquid-filled transformer would then be installed in place of the existing unit. All this must be accomplished in a manner that enables continued operation of the Mystic site.

The process of disposing of the existing transformer would involve draining the PCB liquid from the transformer, either in the field or at a disposal facility[7], shipping the contaminated liquid to an incineration facility, and disposing of the transformer shell (with core and coils intact) either at a landfill facility or at a special cleaning/scrapping facility[8]. The problem with landfilling the transformer shell is that the owner (i.e., the State) is still potentially legally responsible for potential future contamination at the landfill site.

Estimated Cost of Option C1, Replacement & Landfill Disposal of the Existing PCB Transformer:

Initial Capital Costs	
New liquid-filled or dry-type transformer	$ 8,600
Removal of existing transformer	1,000
Installation of new transformer	2,000
Landfill disposal of existing transformer	3,100
Engineering fee and contingencies	4,400
Subtotal of Initial Capital Costs	$ 19,100

Indirect Costs
None

[7]If the transformers are not leaking and can be easily removed from the site, they are usually shipped with the PCB dielectric in them.

[8]The cleaning/scrapping facility provides certification of total destruction of the transformers.

Estimated Cost of Option C2, Replacement & Scrap Process Disposal of the Existing PCB Transformer:

Initial Capital Costs	
New liquid-filled or dry-type transformer	$ 8,600
Removal of existing transformer	1,000
Installation of new transformer	2,000
Process & salvage existing transformer	4,700
Engineering fee and contingencies	4,900
Subtotal of Initial Capital Costs	$ 21,200

Indirect Costs
None

The estimated schedule for these options (C1, C2) is:

Design and Engineering	3 weeks
Bidding Period	5 weeks
Transformer Delivery	15 weeks
Installation	6 weeks
Total	29 weeks

III. SUMMARY AND CONCLUSIONS

Installation of a new primary switch, Option A, does not eliminate PCBs or the dangers and maintenance administration problems associated with PCB units. Although this option appears to have the lowest "initial" cost, it is not the most economical because there will be additional costs incurred over the remaining life of the transformer.

Reclassifying the existing transformer, Option B, should eliminate the safety concerns associated with PCBs by reducing the PCB level to values classified as "non-PCB" under the current regulations[9]. This option is also the most economical even with both direct and indirect costs included.

Replacing the existing transformer, Option C, would be more desirable if the existing transformer were filled with "pure" PCB dielectric, because Option B would require a more expensive reclassification processing in that case. The salvage option (Option C2) would totally relieve the State of any possible future liability, once the transformer destruction process is completed. Although disposing of the

[9]Stricter Federal regulations may be promulgated in the future, revising the classification levels for lower PCB concentrations.

transformer in a landfill facility is less expensive than the salvage/destruction method, it does not relieve the State of potential future liability[10].

Note: If the transformer does not achieve "non-PCB" status (i.e., if reclassification reaches only the "PCB-contaminated" status) – which would be typical of a single drain, flush and refill process – the State Agency will have the continuing responsibility for adhering to the regulations pertaining to record keeping, inspections, leak notification and cleanup, etc., as well as proper disposal of the unit when it is finally removed from service. The issue for review here would be whether the State/Agency is willing to accept the continuing responsibility for a PCB-contaminated unit in order to reduce the initial capital outlay significantly.

Recommendation for PCB Transformer: We recommend Option B, reclassifying the transformer as the most economical method. This should include repeating the drain and refill process as needed to achieve a PCB concentration below 25 ppm.

[10]Current federal laws make all "generators" of wastes stored in a landfill facility liable together, for any future contamination from that landfill.

F+O State of Connecticut - Mystic PCB options - 90103.07 December 13, 1990

SUMMARY OF PARAMETERS USED:

Average inflation rate (i)	5.00%
Present worth interest rate (m)	8.00%
Cost of energy ($/kwh)	$.10
Cost of reclassifying transformers ($/gal)	$140.00
Cost* of Mineral Oil drain, flush and fill ($/gal)	$75.00
Cost** of landfill disposal of transformers ($/lb)	$.65
Cost** of salvage processing of transformers ($/lb	$1.00
Remaining life of transformers (years)	15
Total life of transformers (years)	30

*Including two drain-fill processes
**Including cost of incinerating PCB fluid

SUMMARY OF PCB TRANSFORMER DATA

Transformer Location	# Xfmrs	Phase	KVA	Type of Installation	Conn.	Weight (lbs.)	Gallons of PCB
Whipple	1	3	225	pad	120/208Y	4,700	94
Total	1		225			4,700	94

F+O State of Connecticut - Mystic PCB options - 90103.07 December 13, 1990

SUMMARY OF OPTION A COSTS AND CALCULATIONS

Option A - PCB Transformers

Quantity	Description	Unit Cost	Total Cost
1	NEMA 3R fusible load-break switch	$17,000	$17,000
1	Installation of primary switch	$2,500	$2,500
3	New fuses	$900	$2,700
1	New concrete switch pad	$1,000	$1,000
	TOTAL	$20,400	$22,200

Present cost of salvage disposing of transformers:

= Salvage cost ($/lb) x Transformer weight (lbs)

= $1.00 x 4,700

= $4,700.00

Present Worth of disposing of the existing transformers in "n" years:

= (Present Cost of Disposing of PCB Transformers) x (1+m)EXP(-n)

where m=interest rate and n= 15.00

= $5,700 (from Option C calculations) x (1+m)EXP(-n)

= $1,797

= ~ $1,800

Adjustment for transformer life:

= (current transformer cost) x (1+i)EXP(n) x (used life of ex./total life)

divided by (1+m)EXP(n)

where i=inflation rate and m=present worth interest rate

= $10,600 x (1+i)EXP(n) x .50 divided by (1+m)EXP(n)

= $3,473

= ~ $3,500

SUMMARY OF OPTION B COSTS AND CALCULATIONS

Option B - PCB Transformers

Quantity	Description	Unit Cost	Total Cost
94	Transformer gallons to be Drained, Flushed and Fil	$75	$7,100
1	Cost for 50°C Testing	$1,400	$1,400
	TOTAL		$8,500

Adjustment for transformer life:

= (current transformer cost) x (1+i)EXP(n) x (used life of ex./total life)
divided by (1+m)EXP(n)
where i=inflation rate and m=present worth interest rate

= $10,600 x (1+i)EXP(n) x .50 divided by (1+m)EXP(n)

= $3,473

= ~ $3,500

F+O State of Connecticut - Mystic PCB options - 90103.07 December 13, 1990

SUMMARY OF OPTION C COSTS AND CALCULATIONS

Option C1 PCB Transformers	Price	Total	Ave.Unit Cost
1. New transformer	$8,600		
2. Installation of new transformers	$2,000		
Subtotal for new transformers cost		$10,600	
3. Removal of existing transformers	$1,000		
4. Landfill of transformers (lbs) @ $.65	$3,100		
Subtotal for removal/disposal of ex. transformers		$4,100	
Total - Landfill option		$14,700	$14,700

Option C2 PCB Transformers			
1. New transformers	$8,600		
2. Installation of new transformers	$2,000		
Subtotal for new transformers cost		$10,600	
3. Removal of existing transformers	$1,000		
4. Scrapping of transformers (lbs) @ $1.00	$4,700		
Subtotal for removal/disposal of ex. transformers		$5,700	
Total - Scrapping option		$16,300	$16,300

M&E Metcalf & Eddy
An Air & Water Technologies Company

August 31,1993

Mr. Steven Costello
ConnDPW Project Manager
U.S.T. Program
3rd Floor
30 Trinity Street
Hartford, Connecticut 06106

Subject: Tank Removal Report
ConnDPW Tank Program
Project #BI-2A-760-A12

Dear Mr. Costello:

Metcalf & Eddy, Inc. are pleased to submit one original and two copies of the tank removal report for the U.S.T. Remediation Project at Mystic Oral School, Mystic Connecticut. The two copies are for distribution to ConnDEP Underground Storage Tank Unit and Water Compliance Unit.

If you have any questions, please feel free to contact me.

Very truly yours,

METCALF & EDDY, INC.

Michael R. North

MRN:jlm
Attachments

cc: K. Brazauskas
~~R. Ulkus~~

One Research Parkway, Meriden, CT 06450
203-630-1735 FAX 203-630-1135

AWT

TANK REMOVAL REPORT

DEPARTMENT OF EDUCATION
MYSTIC ORAL SCHOOL
ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT
PROJECT NO. BI-2A-760-A12

SUBMITTED TO:
CONNECTICUT DEPARTMENT OF PUBLIC WORKS
UNDERGROUND TANK UNIT
3RD FLOOR
30 TRINITY STREET
HARTFORD, CT 06106

AUGUST 1993

METCALF & EDDY, INC.
ONE RESEARCH PARKWAY
MERIDEN, CONNECTICUT 06450

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CONNECTICUT DEPARTMENT OF PUBLIC WORKS
STATEWIDE UNDERGROUND STORAGE TANK
CONNDPW PROJECT NO. BI-2B-760
TANK REMOVAL REPORT

SITE INSPECTION

Inspector: Michael North
Representing: Metcalf & Eddy, Inc.
Phone: 203-630-1735

Date: Tuesday 9-8-92, Wednesday 9-9-92
Weather: Cloudy, Drizzle/Rain 65°F, Cloudy, Overcast, 65°F

BACKGROUND

SITE INFORMATION

Site Name: Mystic Oral School
Site Address: 240 Oral School Road

Site Contracts/Job Title: Tim Desroches, Facility Manager Phone: 203-536-4221
Rich MacPhail, Const. Coord. Phone: 203-486-2392

Agency Name: State of Connecticut Department of Education
Agency Address: 165 Capitol Avenue, Hartford, Connecticut
Agency Contact/Job Title: George Niles, Asst. Admin. Fac. Mgt. Phone: 203-566-2815

SITE RECONNAISSANCE

General Description: Site consists of several brick buildings, 2-4 stories high, a recreational field, grassed and bituminous paved areas. Site is generally level with some low hills.

GW Classification: GA

Private Wells: Yes ____ No X

Name: ____ Distance: ____ Direction ____

Water Bodies: Yes X No ____

Name: Mystic River (SB) Distance: 1500 ft Direction East
Bindloss Brook (Not Rated) 1500 ft. S-West

Other Receptors: Yes ____ No X

Type: ____ Distance: ____ Direction ____

Site Mapping:

Completed Site Sketch (1 inch = 20 feet) X
Completed Area Sketch (300 foot radius) X

TANK DATA

TANK DESCRIPTION

#1 Tank ID: - Date Removed: 9-8-92 @ 2:30 pm
Dimensions: 3'8" height. () x 2'3" width x 5' length Capacity: 250 gallons
Contents: HF#2 Tank Material: Steel
Condition: Entire exterior exhibited extensive surficial corrosion, steel piping also corroded. No rust holes.

#2 Tank ID: - Date Removed: 9-8-92 @ 3:45 pm
Dimensions: 4' (dia.) x 6' (length) Capacity: 500 gallons
Contents: Gasoline Tank Material: Steel
Condition: Entire exterior exhibited extensive surficial corrosion. Piping is copper, no corrosion, no rust holes.

#3 Tank ID: - Date Removed: 9-9-92 @ 8:15 am.
Dimensions: 8' (dia.) x 6' (length) Capacity: 7500 gallons
Contents: HF#2 Tank Material: Steel
Condition: Entire exterior exhibited surficial corrosion, ≈ 90% extensive, Steel piping corroded. No rust holes.

#4 Tank ID: - Date Removed: 9-9-92
Dimensions: 8' (dia.) x 26'6" (length) Capacity: 10,000 gallons
Contents: HF#2 Tank Material: Steel
Condition: Entire exterior exhibited extensive surficial corrosion, Steel piping also corroded, no rust holes.

OBSERVATIONS

VISITING PERSONNEL

ConnDEP:
Name: _____ Section _____ Phone _____

Fire Marshal:
Name: _____ Phone: _____
Address: _____

Other
Name: _____ Phone: _____ Company: _____
Address: _____

EXCAVATION DETAILS

Evidence of Contamination: Yes X No ____
Comments: Laboratory test results for soil located within the shared tank graves of the 7500 and 250 gallon HF#2 tanks came up with high concentrations of TPH.

Depth to Water Table: Not encountered
Tanks #1, #2, #3, #4 Soil Type: Sandy gravel, with some cobbles and boulders - med-coarse sand

Evidence of Bedrock: Yes ____ No X
Comments: _____

Dewatering Required: Yes ____ No X
Pumping Rate: _____ gpm
Influent Concentration (BETX) _____ ppb
Effluent Concentration (BETX) _____ ppb

PHOTO DOCUMENTATION

Site Prior to Removal	X	Piping Trench Removal	
Top of Tank in Gravel	X	Excavation Backfilling	
Tank out of Excavation	X	Site after Completion	
Open Tank Excavation	X	General Site Activities	X

CONTRACTORS

GENERAL CONTRACTOR
Tank Contractor: Site Remediation Phone: 623-8179 Contact: Bill Long
Address: 10 Stoughton Rd, East Windsor, CT

TANK DISPOSAL
Hauler: Northeast Tank Disposal Phone: 203-649-2755
Disposal Site: Manchester Facility Phone: 203-659-2755 Contact:
Address: 23 Electric Street, Manchester, CT
Disposal Site Certificate No. 5689 Date: 9-9-92

LIQUID DISPOSAL
Hauler: Conn. Waste Oil, Inc. Phone: 203-235-8889
Disposal Site: Conn. Waste Oil, Inc. Phone: 235-3753 Contact:
Address: 1250 Old Colony Road, Tracy, CT
Quantity: 1500 gallons Date: 9-9-92 Manifest No.:

SOIL DISPOSAL
Hauler: S&S Trucking Phone: 488-7300
Disposal Site: Branford Landfill Phone: 483-7444 Contact: Thomas Santa Barbara
Address: 41 Rose Hill Road, Branford, CT
Quantity: 52.90 tons Date: 5-5-93 Manifest No.: 00811-00814

OTHER DISPOSAL (PPE, Cleaning Supplies, Etc.)
Waste Description: -
Hauler: - Phone: -
Disposal Site: - Phone: - Contact: -
Address: -
Quantity - drums/tons Date: - Manifest No. -

DEWATERING
Contractor: - Phone: - Contact: -
Address: -

SAMPLING DATA

SOIL SAMPLING (sample locations on site sketch)
Soil Sample ID Numbers from Tank ID: #1 250 gal. HF#2 Tank

North Wall:	MYSOSC-MS001	North Wall*:	MYSOSC-MS027
South Wall:	MYSOSC-MS003	South Wall*:	MYSOSC-MS029
East Wall:	MYSOSC-MS002	South Wall**:	MYSOSC-MS034
West Wall:	MYSOSC-MS004	East Wall*:	MYSOSC-MS028
Bottom:	MYSOSC-MS005	Stock Pile:	MYSOSC-MS031 (Contaminated)
		Bottom*:	MYSOSC-MS030
		Bottom**:	MYSOSC-MS033

Soil Sample ID Numbers from Tank ID: #2 500 gal. Gasoline Tank

North Wall:	MYSOSC-MS006	Stock Pile:	MYSOSC-MS011 (Clean soil)
South Wall:	MYSOSC-MS008		
East Wall:	MYSOSC-MS007		

SAMPLING DATA (Continued)

Soil Sample ID Numbers from Tank ID: #3 7500 gal. HF#2 Tank

7500 Gal. HF#2 Tank	North Wall:	MYSOSC-MS012	Bottom QA:	MYSOSC-MS017
	South Wall:	MYSOSC-MS014	West Wall*:	MYSOSC-MS026
	East Wall:	MYSOSC-MS013	Bottom*:	MYSOSC-MS025
	West Wall:	MYSOSC-MS015	Bottom **:	MYSOSC-MS032
	Bottom:	MYSOSC-MS016		

Soil Sample ID Numbers from Tank ID: #4 10,00 gal. HF#2 Tank

7500 Gal. HF#2 Tank	North Wall:	MYSOSC-MS018	Piping Trench:	
	South Wall:	MYSOSC-MS020	Stock Pile:	
	East Wall:	MYSOSC-MS019	Stock Pile:	
	West Wall:	MYSOSC-MS021	West Wall QA:	MYSOSC-MS022
	Bottom:	MYSOSC-MS023	Stock Pile:	MYSOSC-MS024 (clean)

Results attached on Table 1
* Resample after contaminated soil removed
** Resample after additional contaminated soil removed

GROUND WATER (if encountered)
GW Sample ID No: _____
Tank Excavation: _____
Domestic Well: _____ Owners Name: _____
Domestic Well: _____ Owners Name: _____
Domestic Well: _____ Owners Name: _____

Results attached on Table 2: Yes _____ No _____

RECOMMENDATIONS

The confirmation soil samples collected from the 500 gallon gasoline tank grave and the 10,000 gallon HF#2 tank grave were analyzed for specific parameters and showed no contaminated soil was present in the tank graves. Confirmation soil samples were collected from the 250 gallon and 7,500 gallon HF#2 tank graves and analyzed for specific parameters. The analytical results indicated contaminated soil remained along the north, south and east walls and bottom of the 250 gallon HF#2 tank grave and along the west wall and bottom of the 7,500 gallon HF#2 tank grave. Additional soil excavation completely remediated the 7,500 gallon HF#2 tank grave, and remediation of the 250 gallon HF#2 tank grave, with the exception of the south wall where TPH was detected at a concentration of 110 mg/kg. A TPH concentration of 25 mg/kg was detected in the laboratory's method blank sample, so it is likely that the actual in-situ concentration of TPH is at or below the 100 mg/kg guideline as set by the ConnDEP.

The groundwater table was not encountered in any of the tank graves and therefore has not likely been impacted by the soil contamination. Based on the analytical results for all the confirmation samples, no contaminated soil remains in any of the tank graves and no further soil remediation is required.

TABLES

TABLE 1. SUMMARY OF ANALYTICAL RESULTS
Sample I.D.# Prefix: MYSOSC-

Sample I.D.#		MS001	MS002	MS003	MS004	MS005
Sample Location		N. WALL	E. WALL	S. WALL	W. WALL	BOTTOM
Sample Date		9-8-92	9-8-92	9-8-92	9-8-92	9-8-92
Tank Grave		250 HF#2	250 HF#2	250 HF#2	250 HF#2	250 HF#2
Parameters	Units	Concentrations				
U.S. EPA Method 8010 (1)	ug/kg	ND (2)	ND	ND	ND	ND
U.S. EPA Method 8020 (1)	ug/kg	ND	ND	ND	ND	ND
TCLP Metals (1)	ug/l	NA (3)	NA	NA	NA	NA
TPH by I.R.	mg/kg	132	127	309	30	131

1. Parameters not listed were not detected
2. ND = Not Detected
3. NA = Not Analyzed

TABLE 1. SUMMARY OF ANALYTICAL RESULTS (CONT.)
Sample I.D.# Prefix: MYSOSC-

Sample I.D.#		MS006	MS007	MS008	MS009	MS010	MS011
Sample Location		N. WALL	E. WALL	S. WALL	W. WALL	BOTTOM	CLEAN SOIL
Sample Date		9-8-92	9-8-92	9-8-92	9-8-92	9-8-92	9-9-92
Tank Grave		500 GAS	500 GAS	500 GAS	500 GAS	500 GAS	500 GAS
Parameters	Units	Concentrations					
U.S. EPA Method 8010 (1)	ug/kg	ND	ND	ND	ND	ND	ND
U.S. EPA Method 8020 (1)	ug/kg	ND	ND	ND	ND	ND	ND
TCLP Metals (1)							
Lead	ug/l	ND	ND	ND	ND	ND	ND
Barium	ug/l	NA	NA	NA	NA	NA	0.59
TPH by I.R.	mg/kg	82	39	22	24	51	40
Ignitability	deg F	NA	NA	NA	NA	NA	>160

TABLE 1. SUMMARY OF ANALYTICAL RESULTS (CONT.)
Sample I.D.# Prefix: MYSOSC-

Sample I.D.#		MS012	MS013	MS014	MS015	MS016	MS017
Sample Location		N. WALL	E. WALL	S. WALL	W. WALL	BOTTOM	BOTTOM QA
Sample Date		9-9-92	9-9-92	9-9-92	9-9-92	9-9-92	9-9-92
Tank Grave		7500 HF#2	7500 HF#2	7500 HF#2	7500 HF#2	7500 HF#2	7500 HF#2
Parameters	Units	Concentrations					
U.S. EPA Method 8010 (1)	ug/kg	ND	ND	ND	ND	ND	ND
U.S. EPA Method 8020 (1)	ug/kg	ND	ND	ND	ND	ND	ND
TCLP Metals (1)	ug/l	NA	NA	NA	NA	NA	NA
TPH by I.R.	mg/kg	59	21	25	11	340	310

TABLE 1. SUMMARY OF ANALYTICAL RESULTS (CONT.)
Sample I.D.# Prefix: MYSOSC-

Sample I.D.#		MS018	MS019	MS020	MS021	MS022	MS023
Sample Location		N. WALL	E. WALL	S. WALL	W. WALL	BOTTOM QA	BOTTOM
Sample Date		9-9-92	9-9-92	9-9-92	9-9-92	9-9-92	9-9-92
Tank Grave		10000 HF #2	10000 HF #2	10000 HF #2	10000 HF #2	10000 HF #2	10000 HF #2
Parameters	Units	Concentrations					
U.S. EPA Method 8010 (1)	ug/kg	ND	ND	ND	ND	ND	ND
U.S. EPA Method 8020 (1)	ug/kg	ND	ND	ND	ND	ND	ND
TCLP Metals (1)							
Barium	ug/l	NA	NA	NA	NA	NA	NA
TPH by I.R.	mg/kg	14	ND	55	32	22	55

TABLE 1. SUMMARY OF ANALYTICAL RESULTS (CONT.)
Sample I.D.# Prefix: MYSOSC-

Sample I.D.#		MS024	MS025	MS026	MS027	MS028	MS029
Sample Location		CLEAN SOIL	BOTTOM	W. WALL	N. WALL	E. WALL	S. WALL
Sample Date		9-9-92	9-21-92	9-21-92	9-21-92	9-21-92	9-21-92
Tank Grave		10000 HF#2	7500 HF#2	7500 HF#2	250 HF#2	250 HF#2	250 HF#2
Parameters	Units	Concentrations					
U.S. EPA Method 8010 (1)	ug/kg	ND	NA	NA	NA	NA	NA
U.S. EPA Method 8020 (1)	ug/kg	ND	NA	NA	NA	NA	NA
TCLP Metals (1) Barium	ug/l	0.48	NA	NA	NA	NA	NA
TPH by I.R.	mg/kg	11	110	19	16	58	200
Ignitability	deg F	>160	NA	NA	NA	NA	NA

TABLE 1. SUMMARY OF ANALYTICAL RESULTS (CONT.)
Sample I.D.# Prefix: MYSOSC-

Sample I.D.#		MS030	MS031	MS032	MS033	MS034
Sample Location		BOTTOM	CONT. SOIL	BOTTOM	BOTTOM	S. WALL
Sample Date		9-21-92	9-22-92	10-9-92	10-9-92	10-9-92
Tank Grave		250 HF#2	HF#2 TANKS	7500 HF#2	250 HF#2	250 HF#2
Parameters	Units	Concentrations				
U.S. EPA Method 8010 (1)	ug/kg	NA	ND	NA	NA	NA
U.S. EPA Method 8020 (1)	ug/kg	NA	ND	NA	NA	NA
TCLP Metals (1) Barium	ug/l	NA	0.67	NA	NA	NA
TPH by I.R.	mg/kg	260	290	50	32	110
Ignitability	deg F	NA	>160	NA	NA	NA

FIGURES

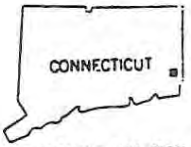
SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

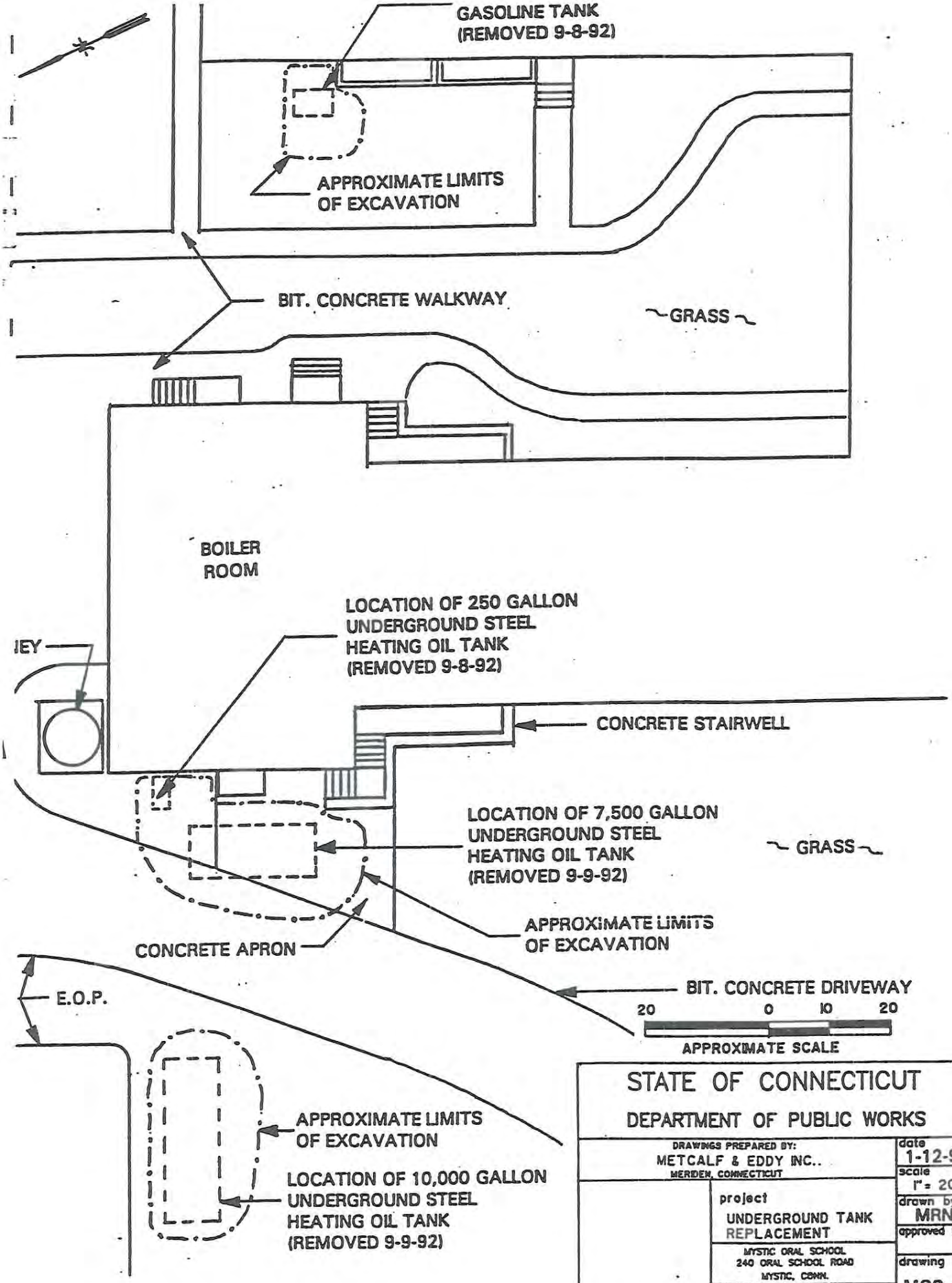
CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

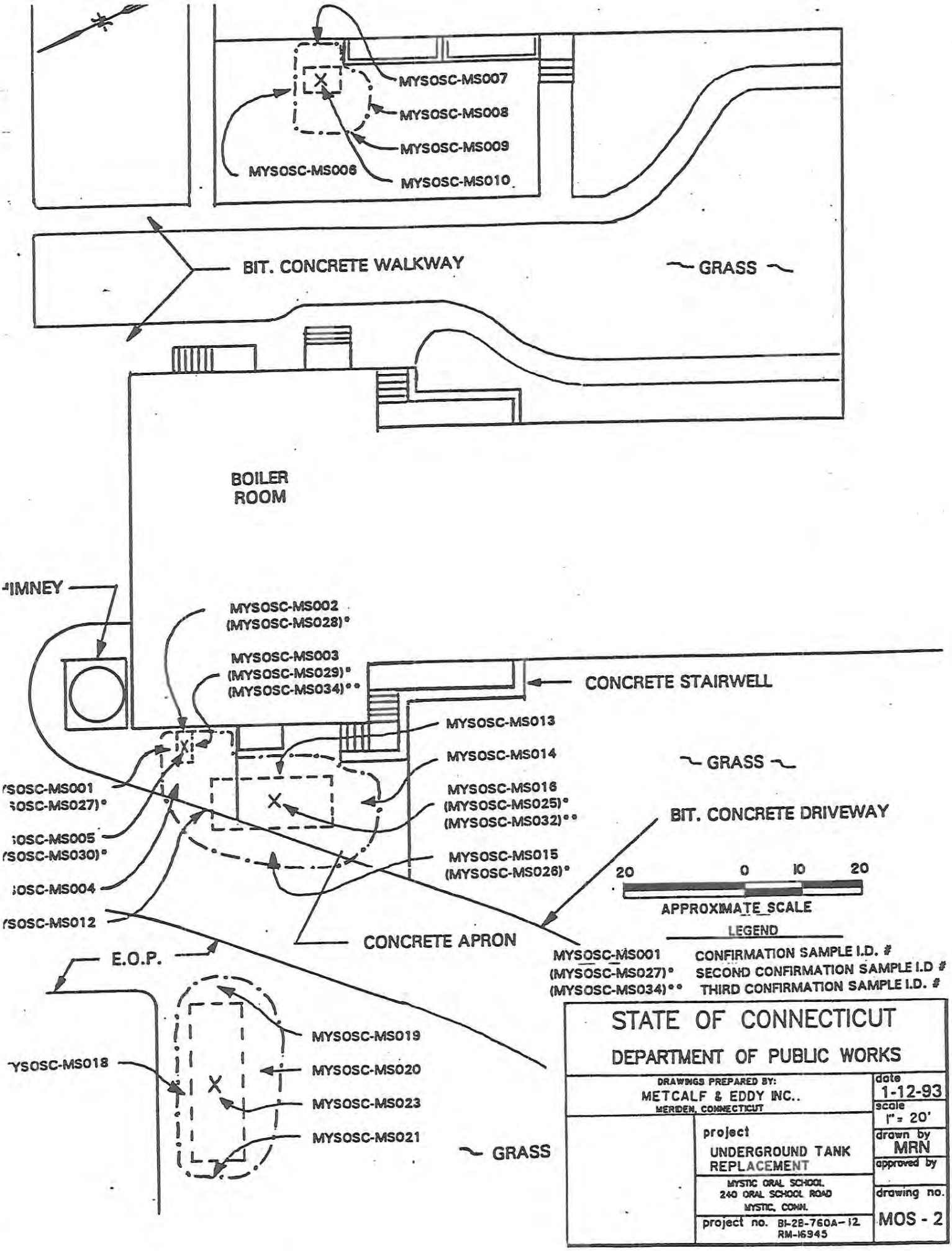


QUADRANGLE LOCATION

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

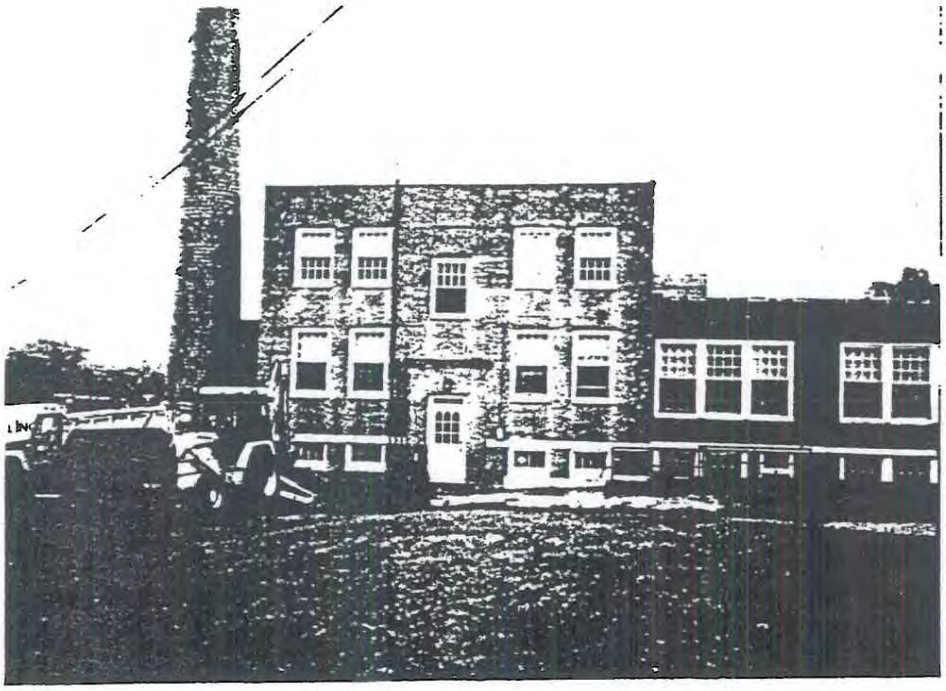
BI-2A-760-A12


GASOLINE TANK
(REMOVED 9-8-92)
APPROXIMATE LIMITS
OF EXCAVATION
BIT. CONCRETE WALKWAY
GRASS
BOILER
ROOM
LOCATION OF 250 GALLON
UNDERGROUND STEEL
HEATING OIL TANK
(REMOVED 9-8-92)
IEY
CONCRETE STAIRWELL
LOCATION OF 7,500 GALLON
UNDERGROUND STEEL
HEATING OIL TANK
(REMOVED 9-9-92)
GRASS
APPROXIMATE LIMITS
OF EXCAVATION
CONCRETE APRON
BIT. CONCRETE DRIVEWAY
E.O.P.
20 0 10 20
APPROXIMATE SCALE
APPROXIMATE LIMITS
OF EXCAVATION
LOCATION OF 10,000 GALLON
UNDERGROUND STEEL
HEATING OIL TANK
(REMOVED 9-9-92)
STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS
DRAWINGS PREPARED BY:
METCALF & EDDY INC..
MERIDEN, CONNECTICUT
date 1-12-93
scale 1" = 20'
project
UNDERGROUND TANK
REPLACEMENT
drawn by MRN
approved by
MYSTIC ORAL SCHOOL
240 ORAL SCHOOL ROAD
MYSTIC, CONN.
drawing no.
MOS - 1
project no. 81-28-760A-12
RM-16945

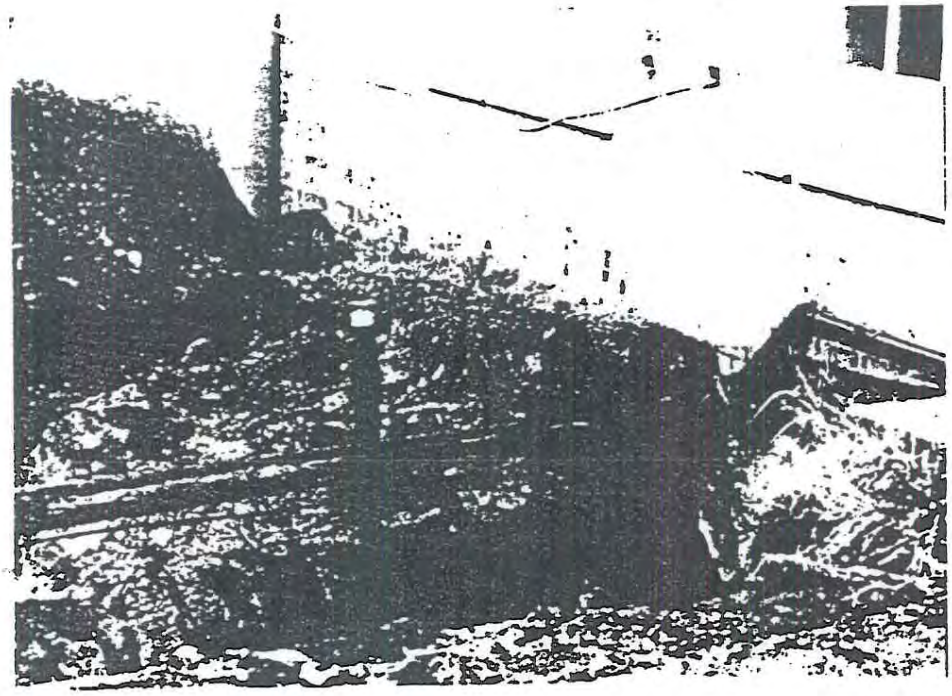

MYSOSC-MS007
MYSOSC-MS008
MYSOSC-MS009
MYSOSC-MS006
MYSOSC-MS010
BIT. CONCRETE WALKWAY
GRASS
BOILER ROOM
IMNEY
MYSOSC-MS002 (MYSOSC-MS028)°
MYSOSC-MS003 (MYSOSC-MS029)° (MYSOSC-MS034)°°
CONCRETE STAIRWELL
MYSOSC-MS013
MYSOSC-MS014
GRASS
MYSOSC-MS001 (MYSOSC-MS027)°
MYSOSC-MS016 (MYSOSC-MS025)° (MYSOSC-MS032)°°
BIT. CONCRETE DRIVEWAY
MYSOSC-MS005 (MYSOSC-MS030)°
MYSOSC-MS015 (MYSOSC-MS026)°
MYSOSC-MS004
MYSOSC-MS012
20 0 10 20
APPROXIMATE SCALE
CONCRETE APRON
E.O.P.
LEGEND
MYSOSC-MS001 CONFIRMATION SAMPLE I.D. #
(MYSOSC-MS027)° SECOND CONFIRMATION SAMPLE I.D #
(MYSOSC-MS034)°° THIRD CONFIRMATION SAMPLE I.D. #
MYSOSC-MS019
MYSOSC-MS018
MYSOSC-MS020
MYSOSC-MS023
MYSOSC-MS021
GRASS
STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS
DRAWINGS PREPARED BY:
METCALF & EDDY INC..
MERIDEN, CONNECTICUT
date 1-12-93
scale 1" = 20'
drawn by MRN
approved by
project
UNDERGROUND TANK REPLACEMENT
MYSTIC ORAL SCHOOL
240 ORAL SCHOOL ROAD
MYSTIC, CONN.
drawing no. MOS - 2
project no. BI-28-760A-12 RM-16945

APPENDIX A

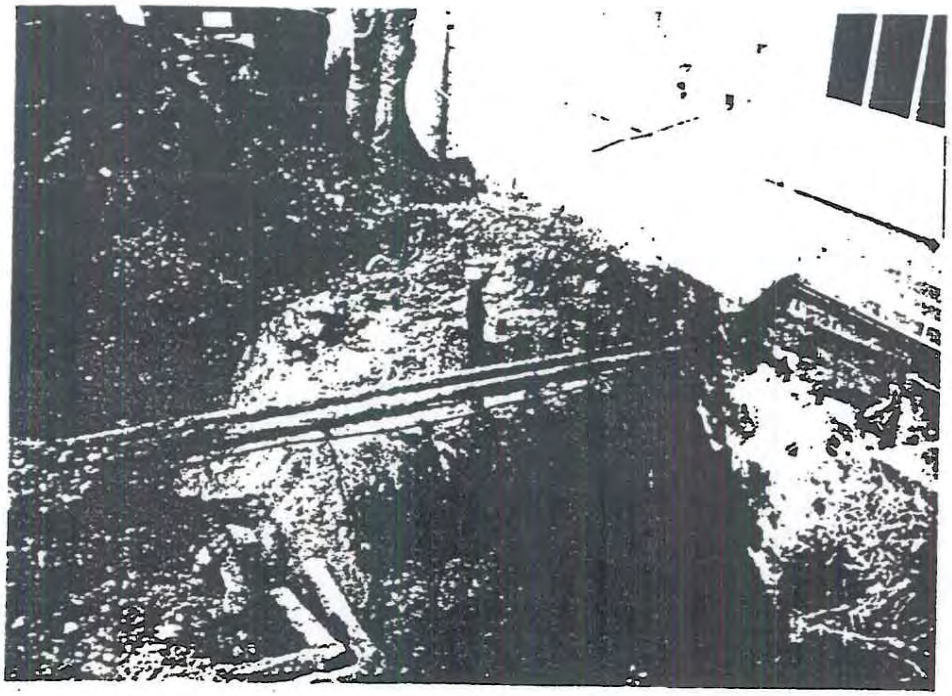
SITE PHOTOGRAPHS



Contractor preparing to remove the 275 gallon heating oil tank located outside the steam generation building.



Top of 275 gallon heating oil tank with overburden soil removed. Note the extent of surficial corrosion on tank.

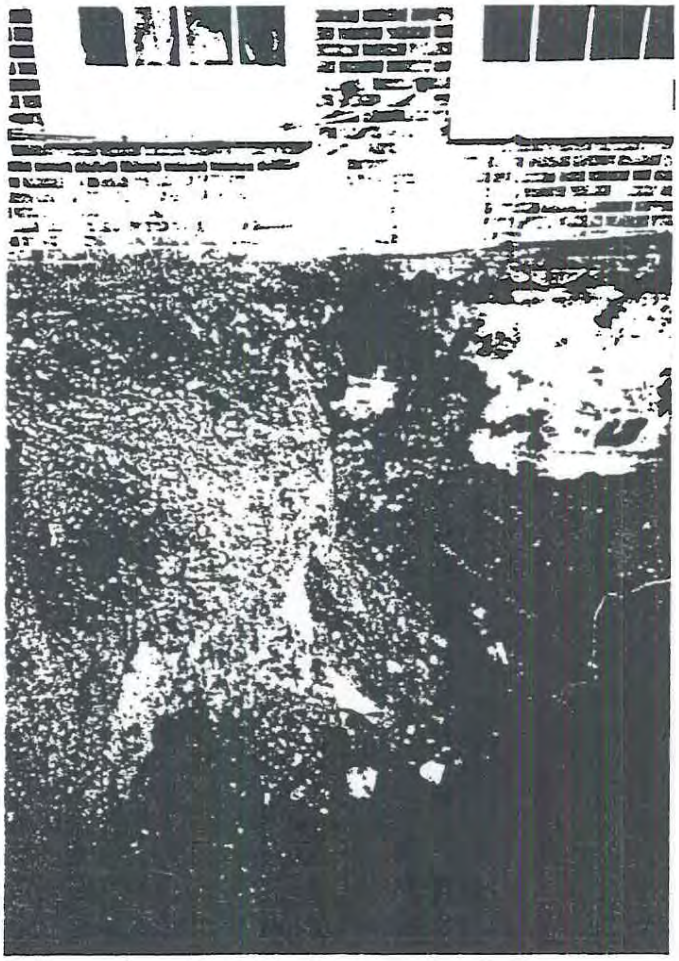


View of 275 gallon heating oil tank from south end of excavation.

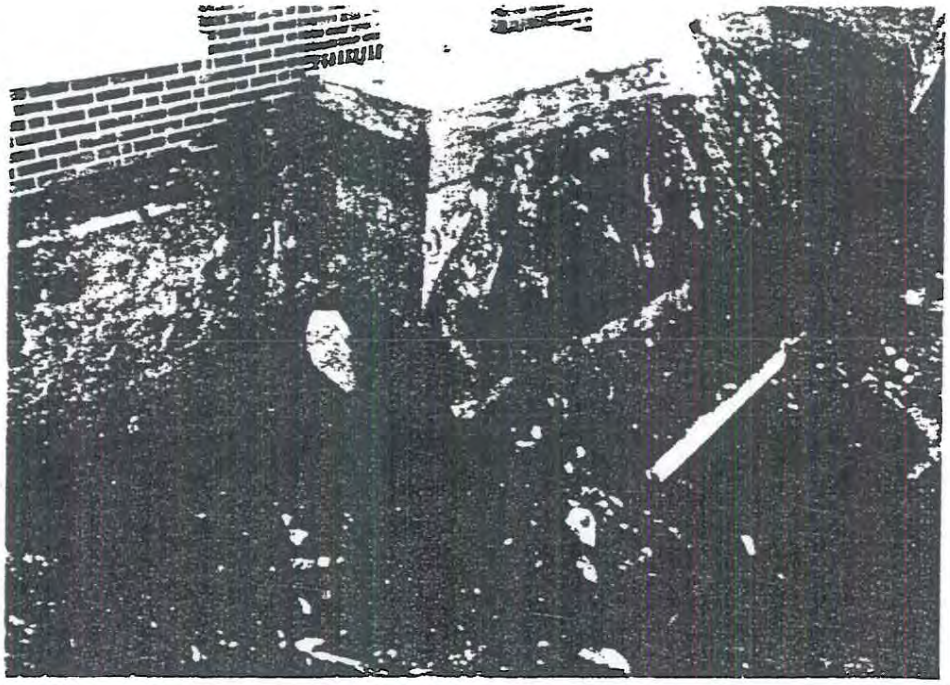
Contractor preparing to remove the 275 gallon heating oil tank located outside the steam generation building.

BI-2A-760-A12

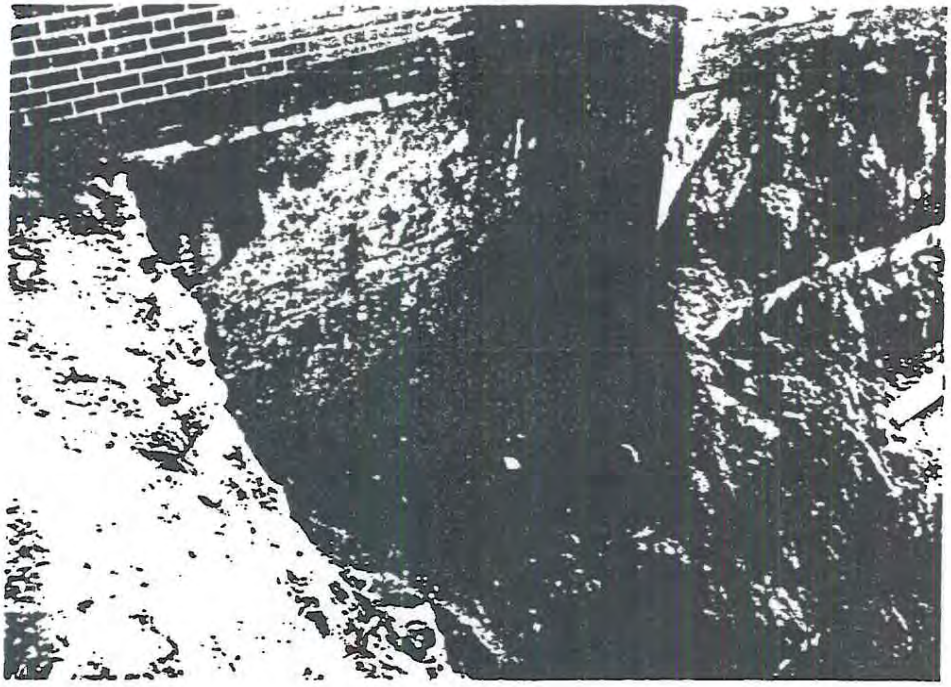
Removal of 275 gallon heating oil tank from the grave. Inspection of tank concluded no rust holes or breaches on tank.



View of tank grave from west vantage point immediately after the 275 gallon heating oil tank was removed.

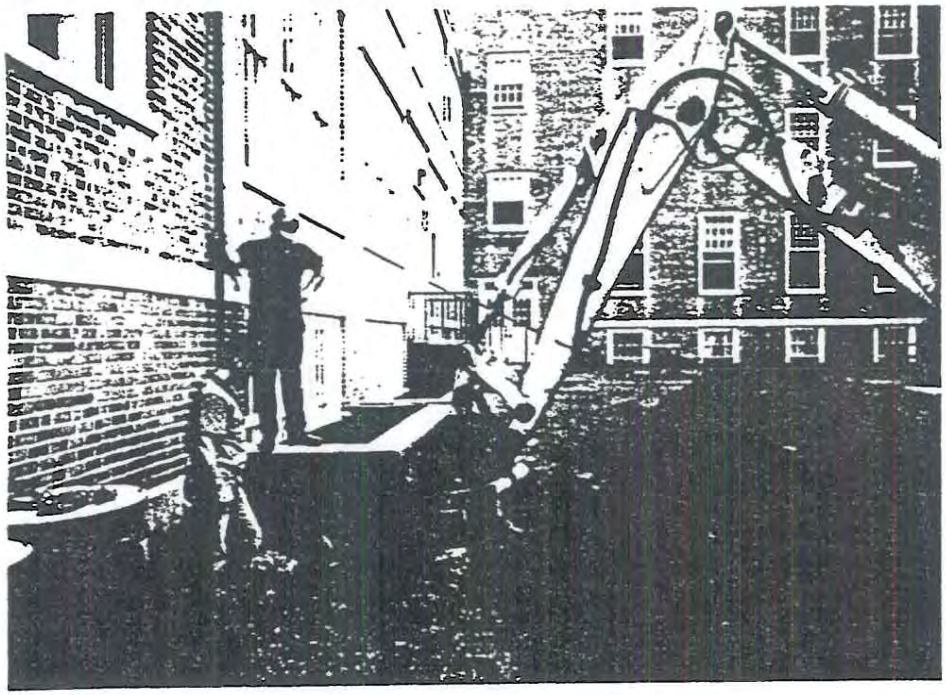


Heating oil tank excavation (left portion of photo) after initial removal of heating oil contaminated soil.

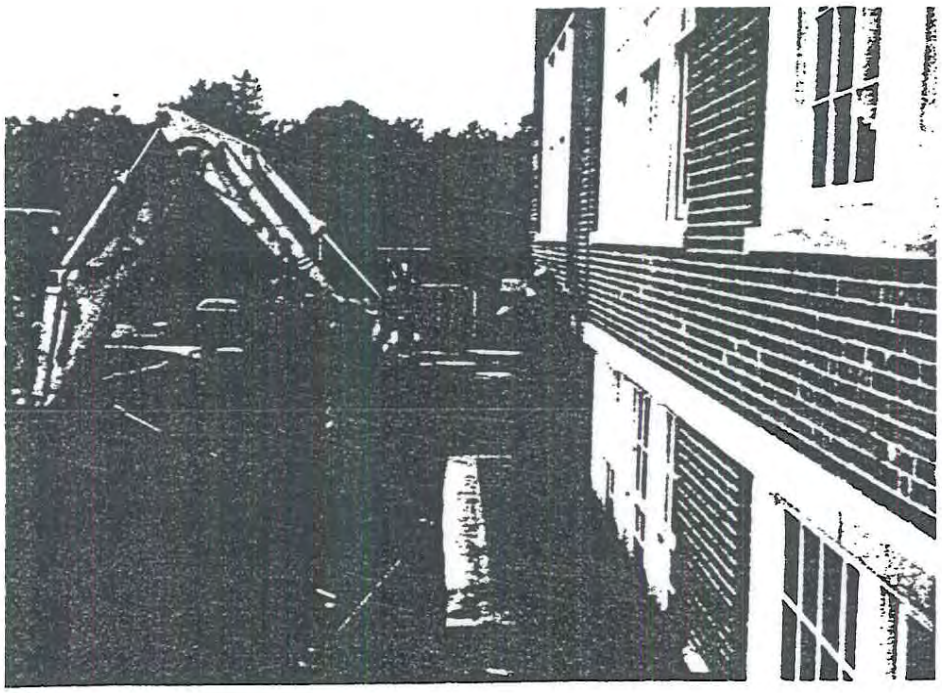


Heating oil tank excavation after removal of remaining contaminated soil.

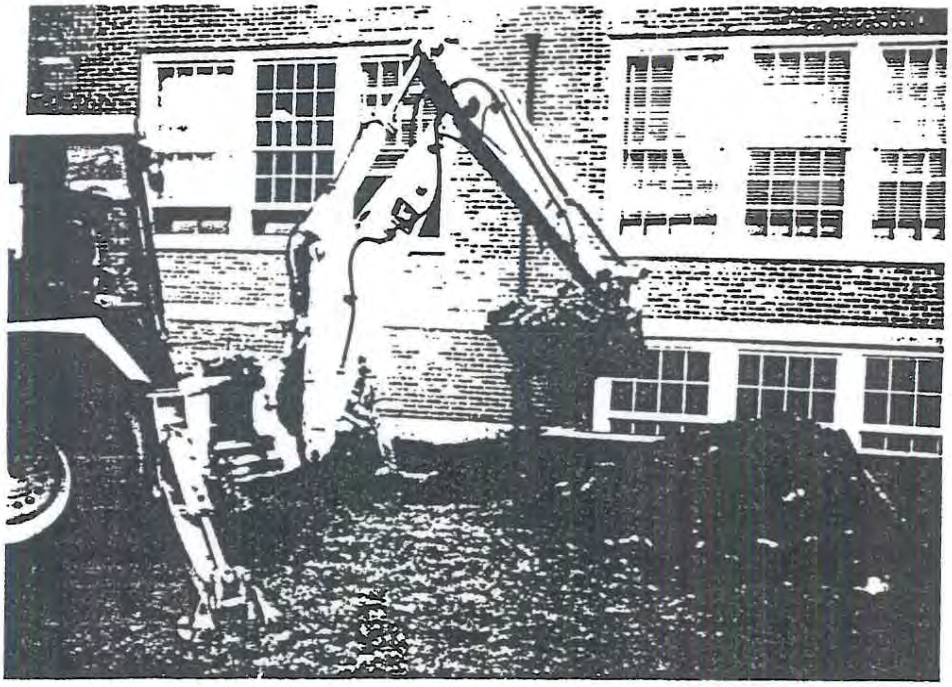
Photo of north wall of 275 gallon heating oil tank excavation. Note exposed steam pipe and electrical conduit approx. 2' below grade.



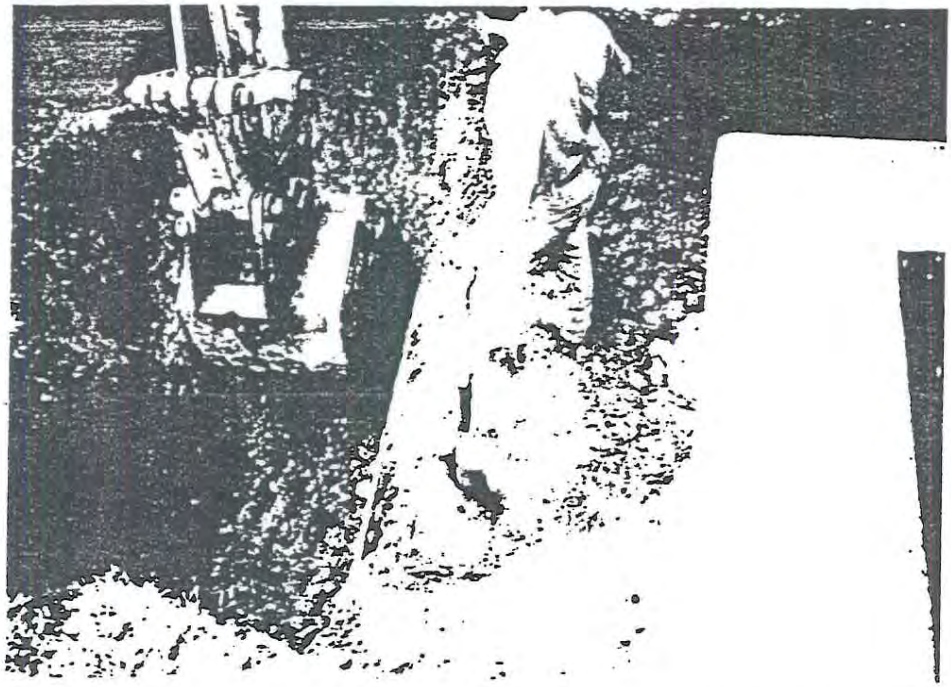
Contractor removing overburden soil from atop 500 gallon gasoline tank. Photo taken from north side of excavation.



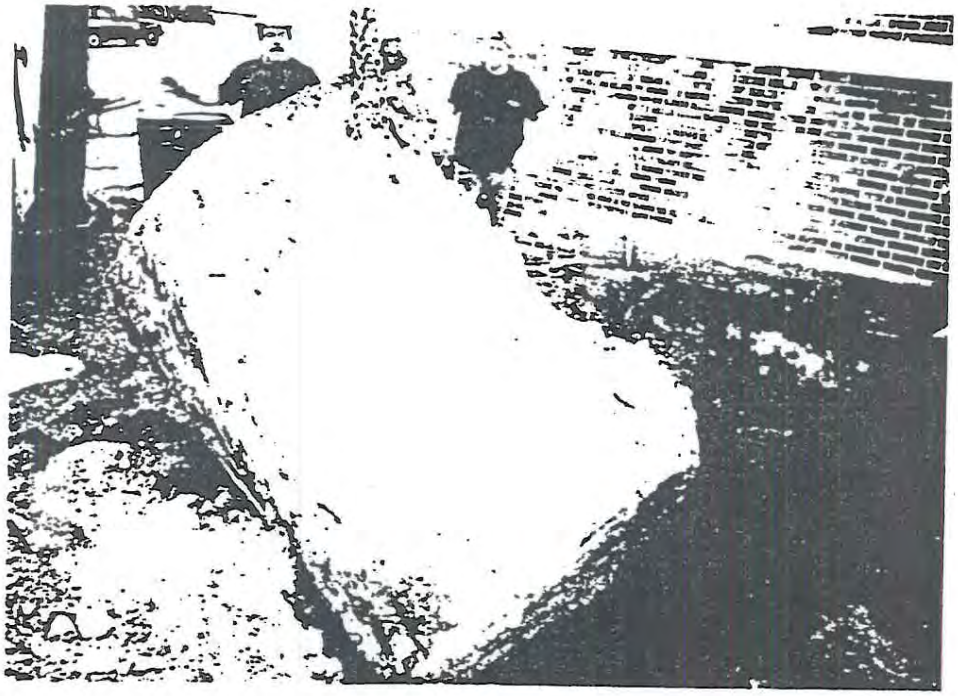
Gasoline tank removal activities continue. Photo taken from south side of excavation.



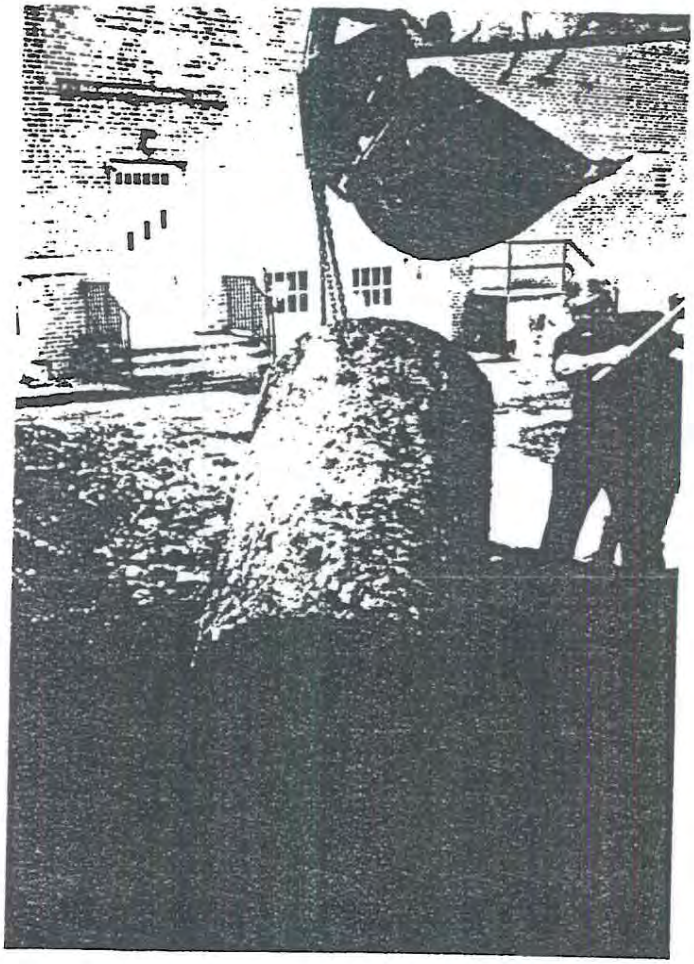
Gasoline tank removal activities ongoing. Photo taken from west side of excavation.



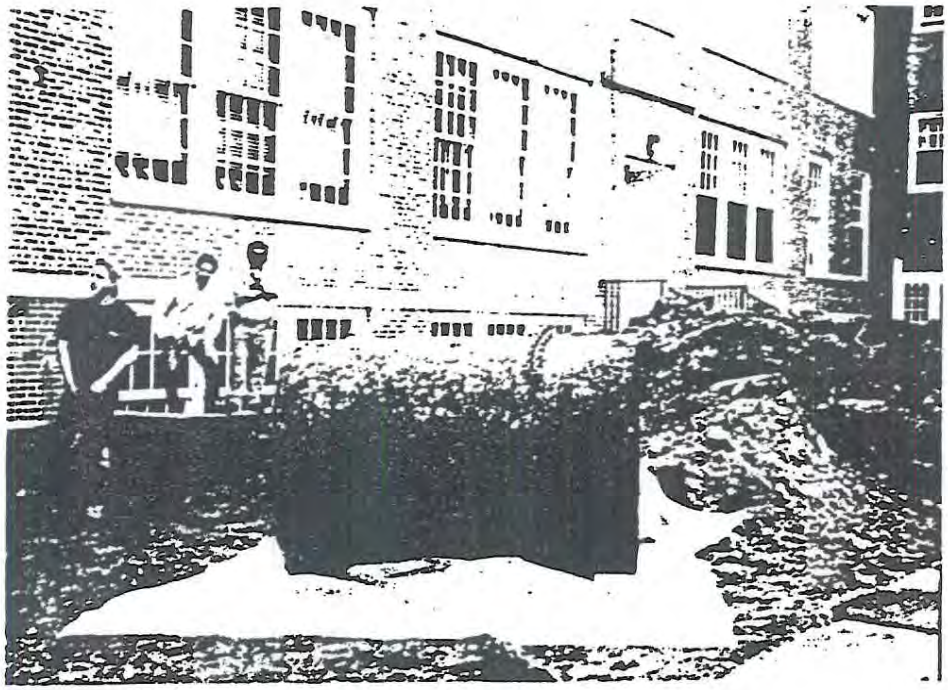
Contractor removing soil from along the north side of the gasoline tank. Note extensive surficial corrosion on tank.



Removal of 500 gallon gasoline tank from excavation. Inspection of tank concluded no rust hole or breaches present.

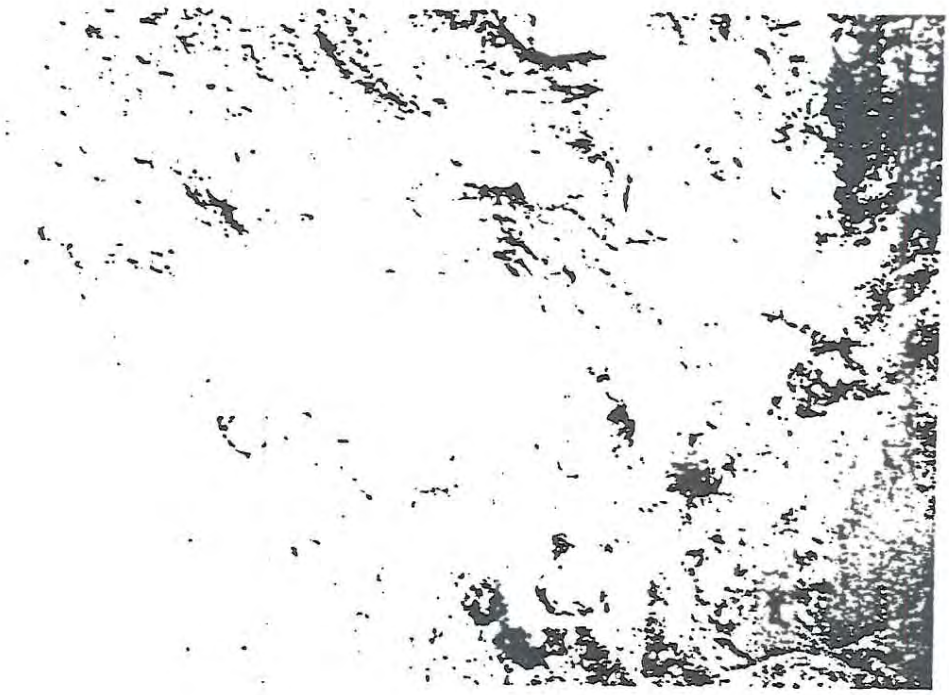


Another photo of gasoline tank removal from excavation.

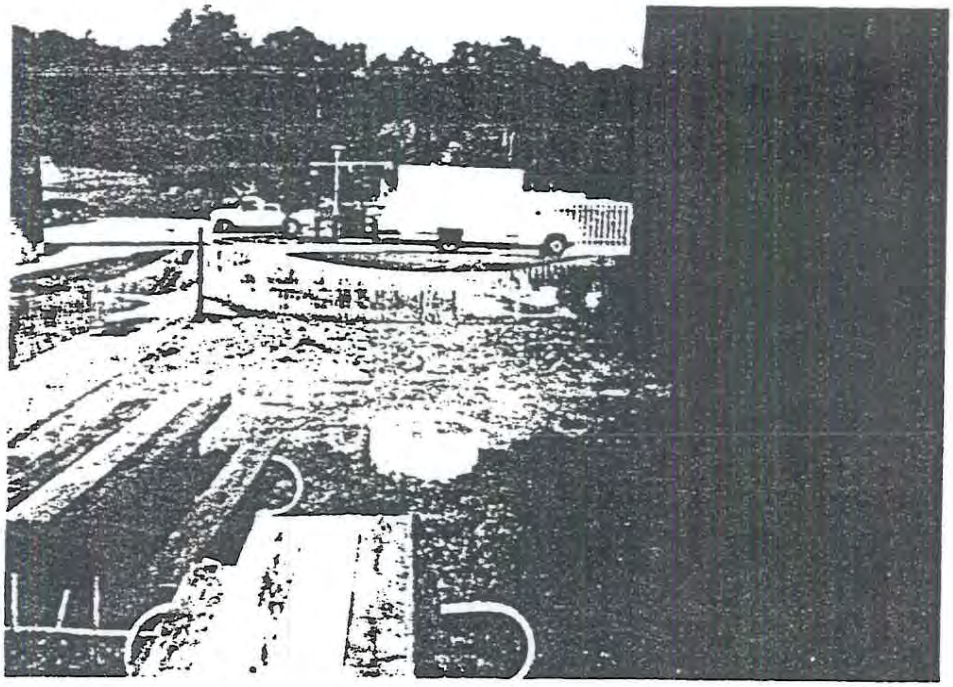


The 500 gallon gasoline tank temporarily staged on plastic next to excavation.

View of 500 gallon gasoline tank grave. Analytical results confirmed no contaminated soil was present within the tank grave.



Another view of 500 gallon gasoline tank grave.



Former gasoline tank installation location after backfilling, regrading and seeding.

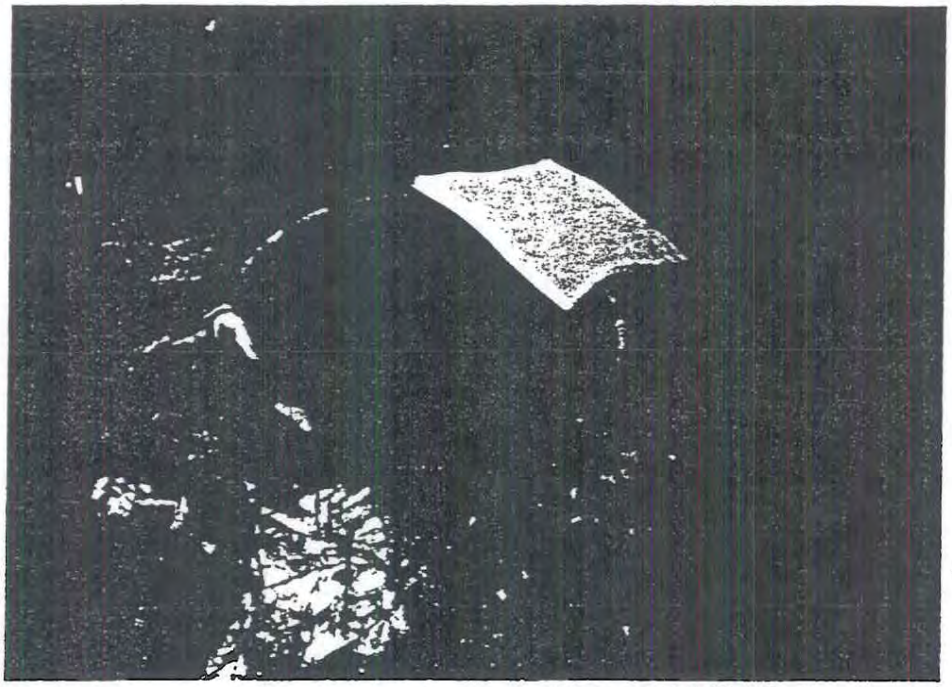


Photo of piping/valve sump accessible through 24" manway. Much of the contaminated soil removed from this tank grave was attributed to spills within the manway.

Contractor cleaning soil off the sides of the 7,500 gallon heating oil tank in preparation for removal from tank grave.

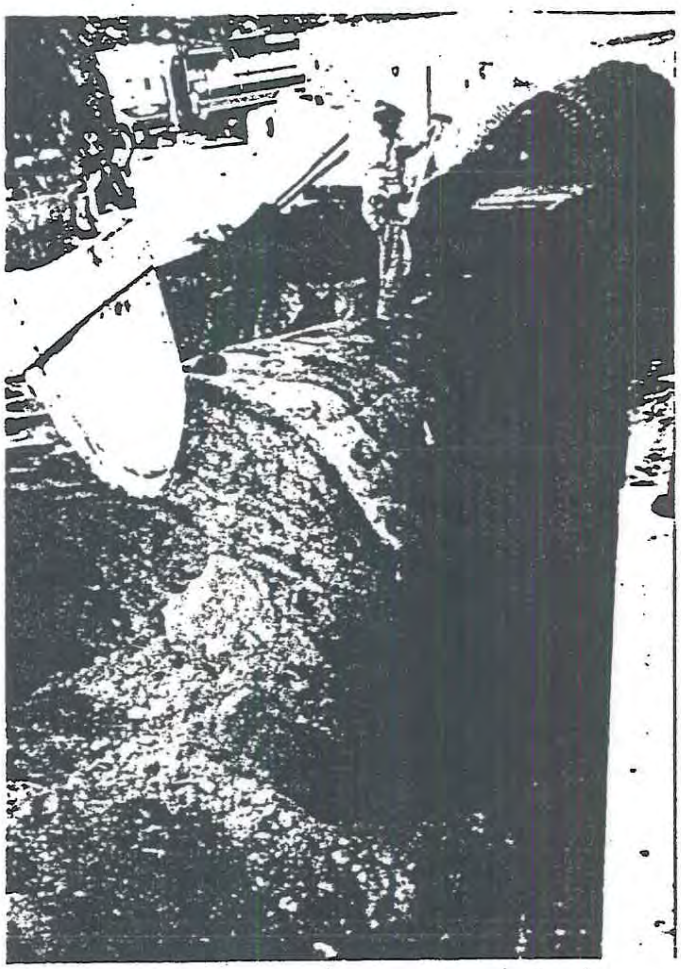
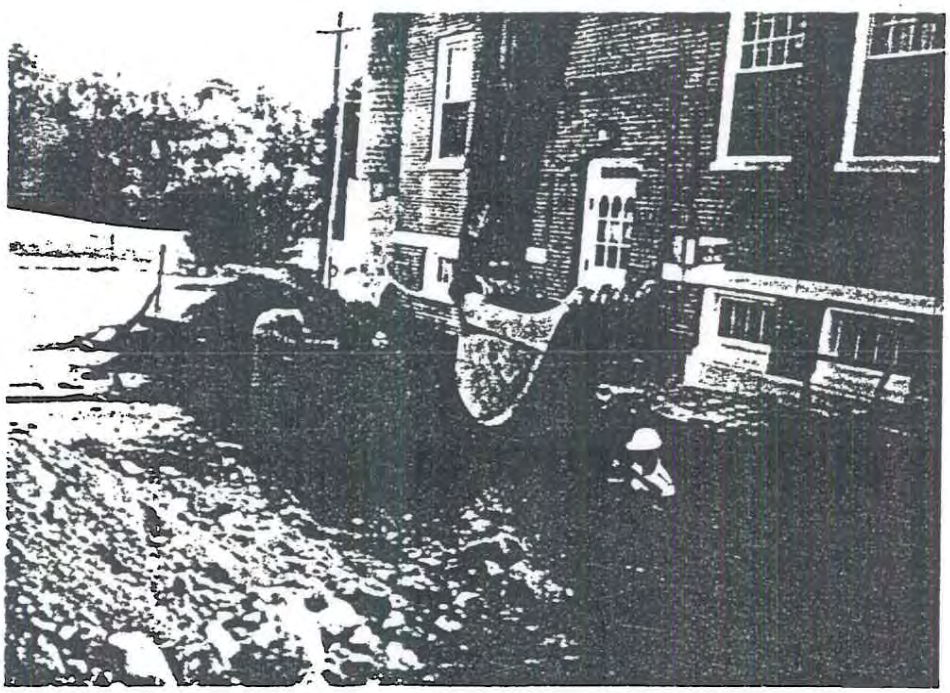
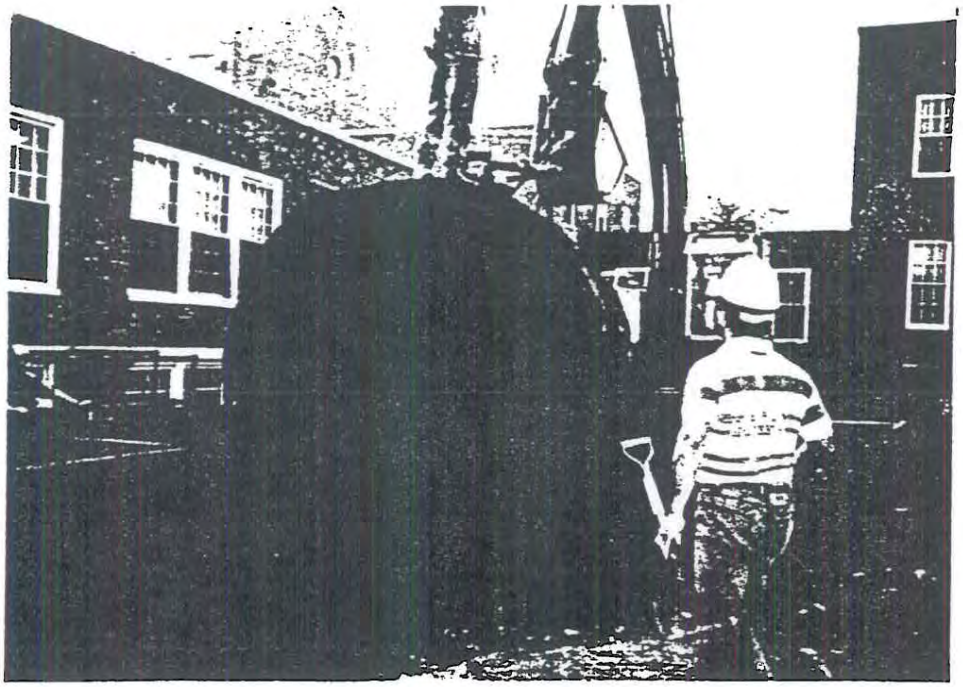


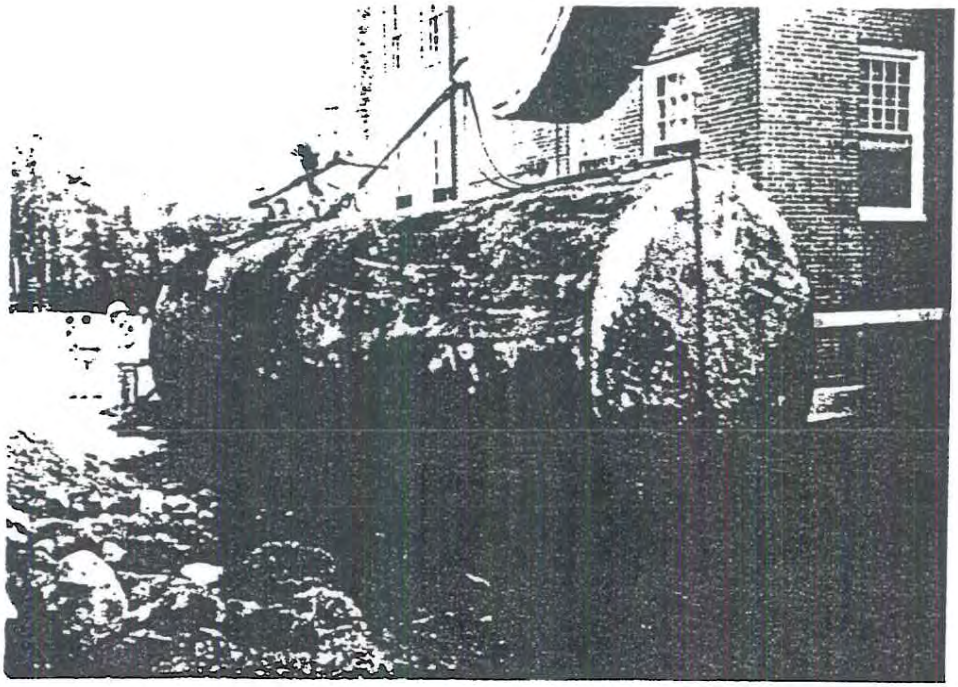
Photo of 7,500 gallon heating oil tank from the south side of the excavation. Note concrete piping sump and contaminated soil at far end of tank.



Loacation of 7,500 gallon heating oil tank installation with relation to steam generation building.



Removal of 7,500 gallon heating oil tank from tank grave.



The 7,500 gallon heating oil tank on ground next to the tank grave. Note surficial corrosion over most of the tank exterior.

Photo of tank grave after removal of the 7,500 gallon heating oil tank.

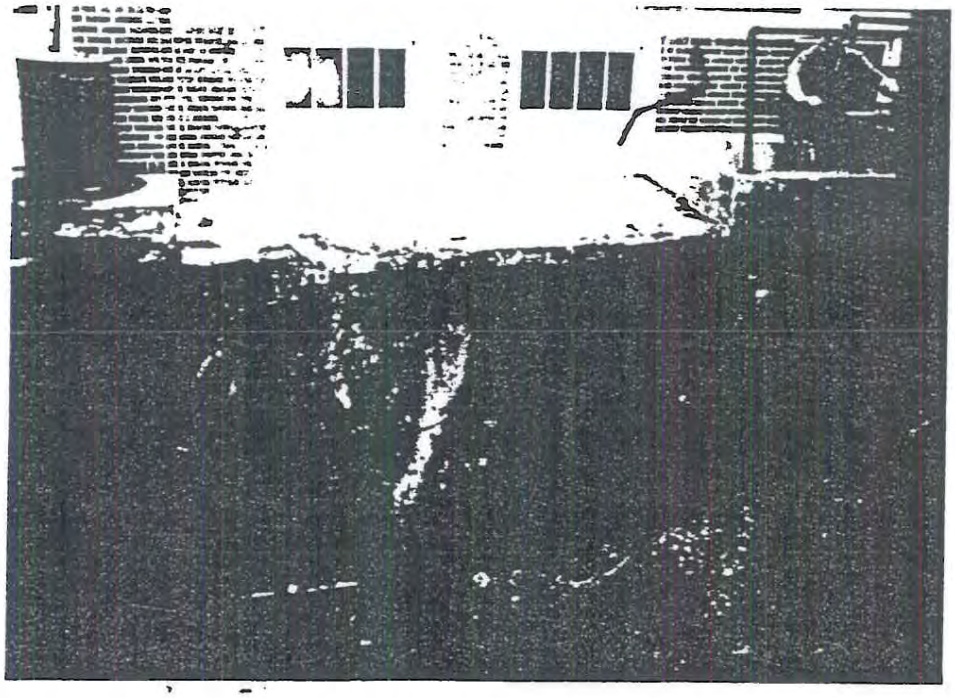
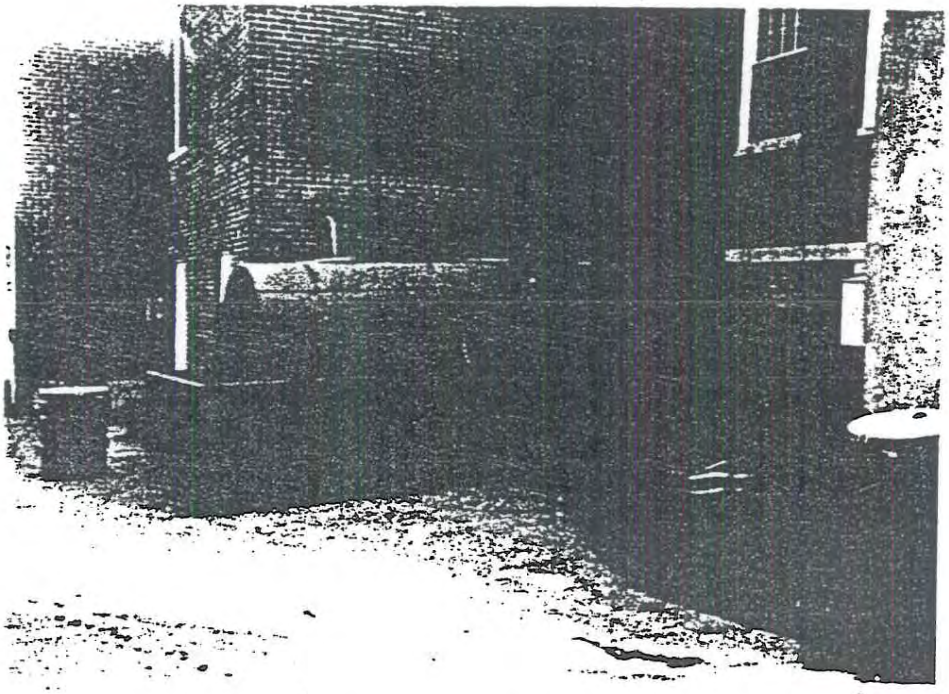


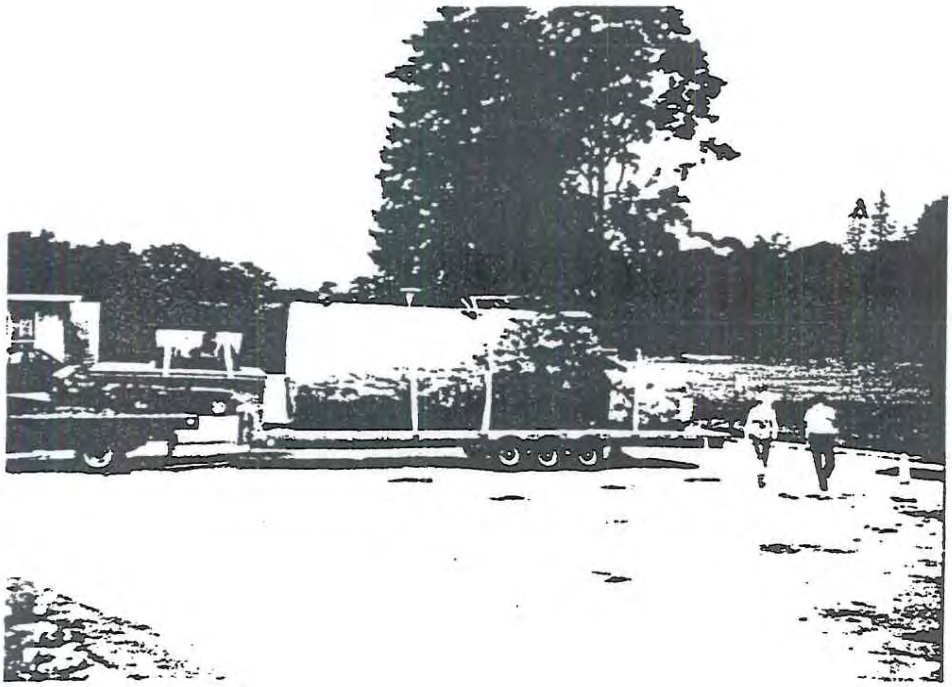
Photo of undermined concrete sidewalk adjacent to buiding.
Note broken clay pipe in lower left hand corner of photo.

BI-2A-760-A12

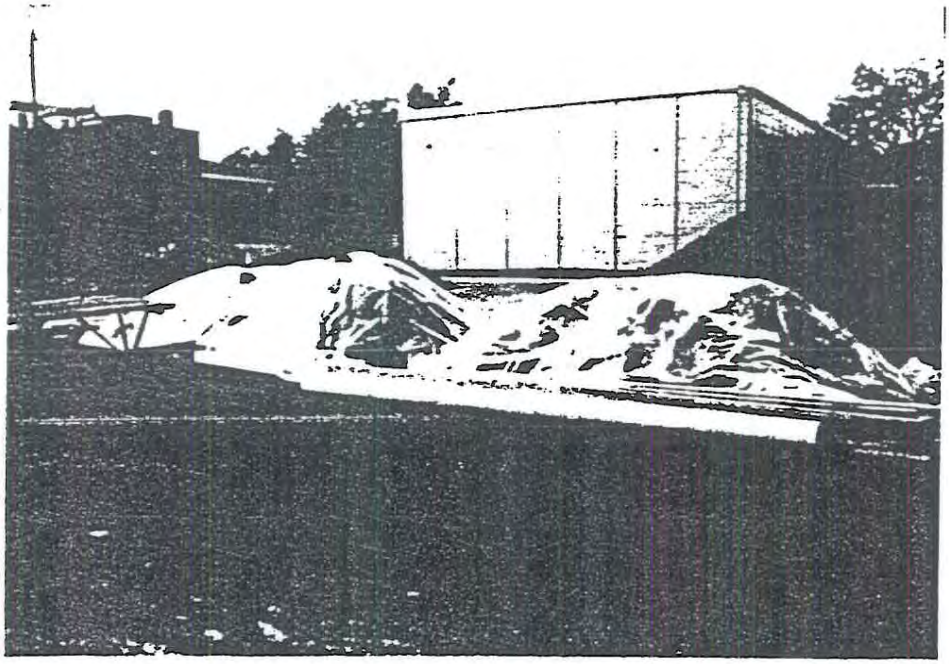
Removal of contaminated soil from the bottom and south end of the 7,500 gallon heating oil tank grave.



Temporary above ground heating oil tank to provide facility with fuel until the new tanks are installed.

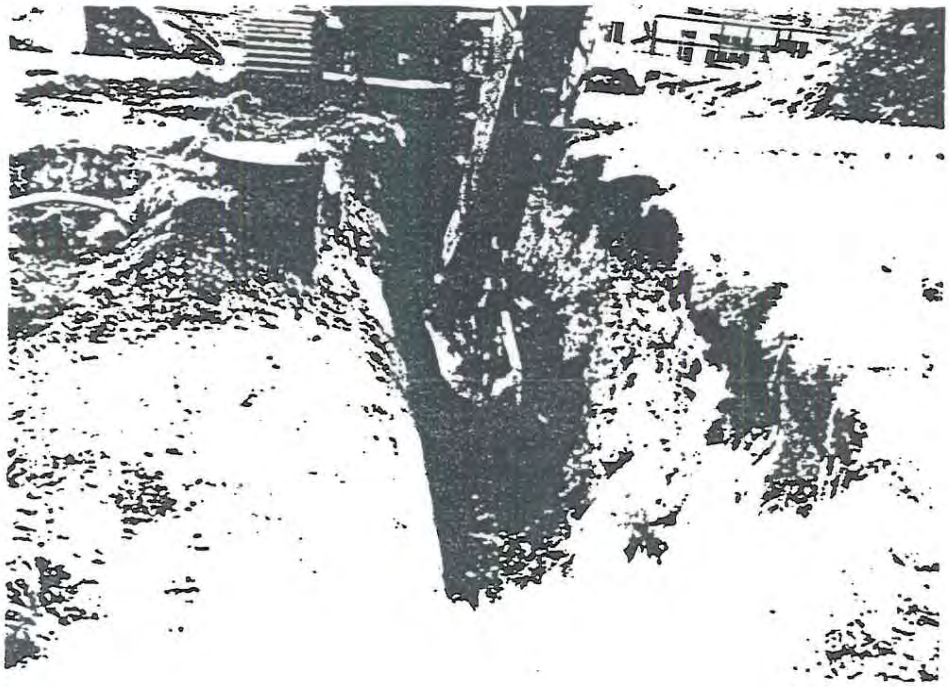


The 275 gallon heating oil tank, 7,500 gallon heating oil tank and the 500 gallon heating oil tank on trailer for delivery to disposal facility.

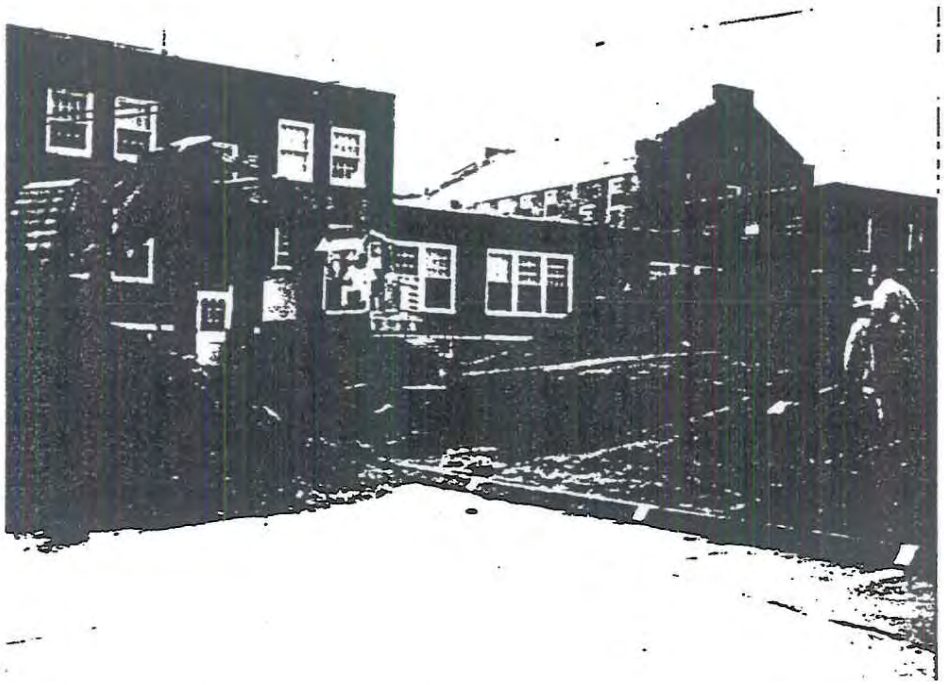


Staged contaminated soil resulting from remediation activities conducted within the 275 gallon and 7,500 gallon heating oil tank graves.

Contractor removing overburden soil from atop the 10,000 gallon heating oil tank.

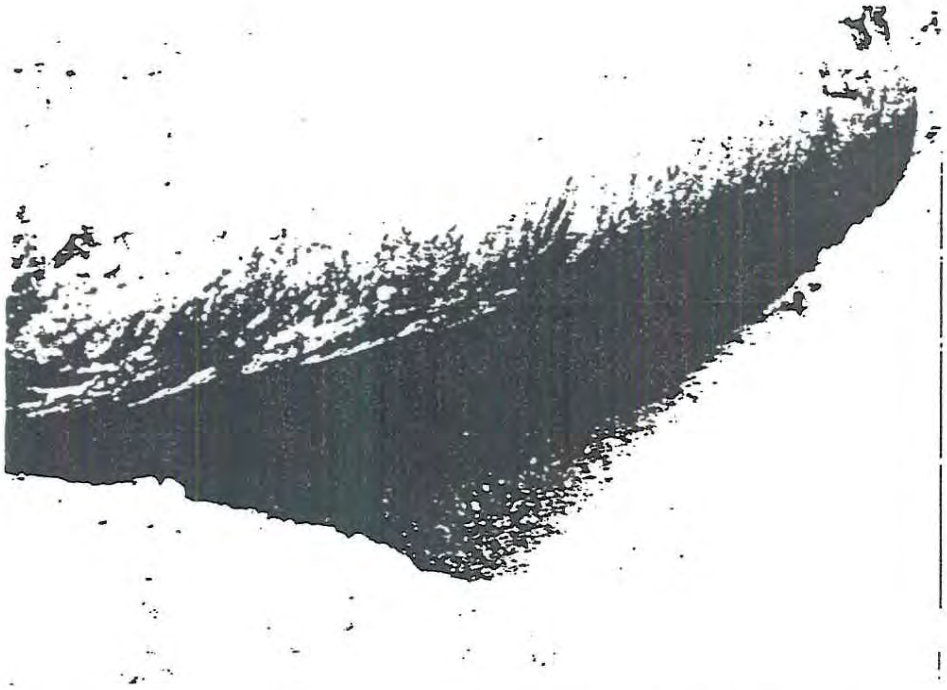


Excavation of soil from the along the south side of tank.

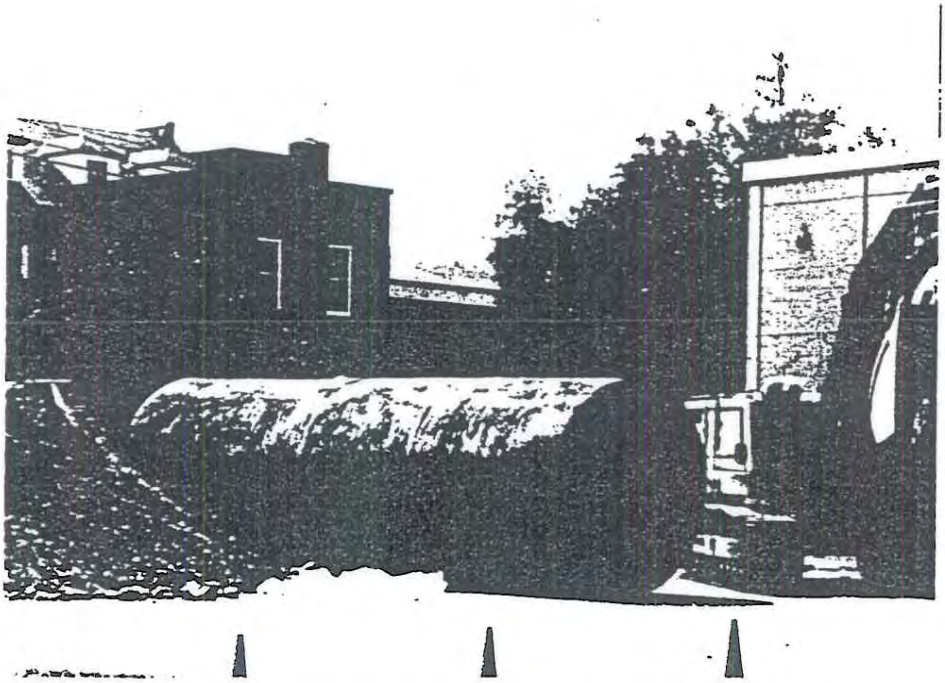


Contractor bailing clean soil from the 10,000 gallon heating oil tank grave to the north side of the excavation.

Photo of bottom of the tank and tank grave at time of 10,000 gallon heating oil tank removal.



Another photo of bottom of the tank and tank grave at time of 10,000 gallon heating oil tank removal.



Removed 10,000 gallon heating oil tank positioned on bituminous asphalt to the north of the tank grave.

APPENDIX B

TANK DISPOSAL DOCUMENTATION

Northeast Tank Disposal

5689

MAILING ADDRESS:
54 Alna Lane
East Hartford, CT. 06108

YARD ADDRESS:
23 Electric Street
Manchester, CT. 06040
Phone (203) 649-2755 or CT. Toll Free (800) 826-5347

CERTIFICATE OF TANK DISPOSAL

Received From: Site Remediation P.O. #1796

Address: P.O. Box 967
10 Stoughton Road
E. Windsor, CT 06088

Tank Size:	NETD Log #:
275 Gallon	92-253-1
550 Gallon	92-253-2
7500 Gallon	92-253-3
10,000 Gallon	92-253-5

Date Received: 9/9/92

Tanks Cleaned and Dismantled On: 9/18 & 10/6 & 10/20/92

Ref: Mystic Oral School

Authorized Signature:

BI-2A-760-A12

APPENDIX C

SOIL DISPOSAL DOCUMENTATION

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS
STATE OFFICE BUILDING
165 CAPITOL AVENUE
HARTFORD, CONNECTICUT 06106

№ 00811

CONTAMINATED MATERIAL MANIFEST

DPW Project No. BI-2B-760-A12

Site Name: Mystic Oral School

General Contractor's Name & Address:
National Tank & Construction
16-20 Elm Street
West Haven, CT 06516

Trucking Contractor's Name & Address:
S & S Trucking
41 Rose Hill Road
Branford, CT 06405

Truck No. or Other Identification: #15

Material Transported: Soil ✓ Bituminous Concrete ___ Concrete ___
Other ___ Explain: ___

Approximate Volume: 16 CY

Contamination: See Letter Dated April 8, 1993 Metcalf & Eddy.

SIGNATURE OF SITE REPRESENTATIVE: Harold D Monroe
(Prior to Release) Date: 5-5-93 Time: 7:30

TO BE COMPLETED BY LANDFILL OPERATOR

Weight of Material:
Gross Weight - 56,920 Pounds
Tare Weight - 36,160 Pounds
Net Weight - 20,760 Pounds 10.38 Tons

I hereby certify that the above material was received by this facility and the quantity indicated is true and accurate:

(Signature) Date: 5-5-93 Time: 8:50 AM

Name & Address of Landfill Operator:
Superior Landfill Management
41 Rose Hill Road
Branford, CT 06405

White - Landfill Operator
Green - DPW Construction Coordinator
Yellow - DPW Construction
Pink - General Contractor
Goldenrod - Extra

Original to be removed by Landfill Operator; remaining copies to be returned by Trucking Contractor to General Contractor. General Contractor to provide Copy 2 to Construction Coordinator and Copy 3 to DPW Construction, Hartford.

MANIFEST\91272
REV. 04/14/1992

BI-2A-760-A12

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS
STATE OFFICE BUILDING
165 CAPITOL AVENUE
HARTFORD, CONNECTICUT 06106

№ 00812

CONTAMINATED MATERIAL MANIFEST

DPW Project No. BI-2B-760-A12

Site Name: Mystic Oral School

General Contractor's Name & Address:
National Tanks & Construction
16-20 Elm Street
West Haven, CT 06516

Trucking Contractor's Name & Address:
S & S Trucking
41 Rose Hill Road
Branford, CT 06405

Truck No. or Other Identification: #35

Material Transported: Soil ✓ Bituminous Concrete ___ Concrete ___
Other ___ Explain: ___

Approximate Volume: 16CY

Contamination: See Letter Dated April 8, 1993 Metcalf & Eddy.

SIGNATURE OF SITE REPRESENTATIVE: Harold D Monroe
(Prior to Release) Date: 5-5-93 Time: 7:30

TO BE COMPLETED BY LANDFILL OPERATOR

Weight of Material:
Gross Weight - 71260 Pounds
Tare Weight - 33,860 Pounds
Net Weight - 37,400 Pounds 18.70 Tons

I hereby certify that the above material was received by this facility and the quantity indicated is true and accurate:

[signature] Date: 5-5-93 Time: 8:50 Am
(Signature)

Name & Address of Landfill Operator:
Superior Landfill Management
41 Rose Hill Road
Branford, CT 06405

White - Landfill Operator
Green - DPW Construction Coordinator
Yellow - DPW Construction
Pink - General Contractor
Goldenrod - Extra

Original to be removed by Landfill Operator; remaining copies to be returned by Trucking Contractor to General Contractor. General Contractor to provide Copy 2 to Construction Coordinator and Copy 3 to DPW Construction, Hartford.

MANIFEST\91272
REV. 04/14/1992

BI-2A-760-A12

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS
STATE OFFICE BUILDING
165 CAPITOL AVENUE
HARTFORD, CONNECTICUT 06106

№ 00813

CONTAMINATED MATERIAL MANIFEST

DPW Project No. BI-2B-760-A12

Site Name: Mystic Oral School

General Contractor's Name & Address:

National Tank & Construction
16-20 Elm Street
West Haven, CT 06516

Trucking Contractor's Name & Address:

S&S Trucking
41 Rose Hill Road
Branford, CT 06405

Truck No. or Other Identification: #35

Material Transported: Soil ✓ Bituminous Concrete ___ Concrete ___
Other ___ Explain: ___

Approximate Volume: 16CY

Contamination: See Letter Dated April 8, 1993.

SIGNATURE OF SITE REPRESENTATIVE: Harold D Morrow
(Prior to Release) Date: 5-5-93 Time: 10:15

TO BE COMPLETED BY LANDFILL OPERATOR

Weight of Material: Gross Weight - 65140 Pounds
Tare Weight - 33,860 Pounds
Net Weight - 31,280 Pounds 15.64 Tons

I hereby certify that the above material was received by this facility and the quantity indicated is true and accurate:

[signature] Date: 5-5-93 Time: 12:30pm
(Signature)

Name & Address of Landfill Operator:

Superior Landfill Management
41 Rose Hill Road
Branford, CT 06405

White - Landfill Operator
Green - DPW Construction Coordinator
Yellow - DPW Construction
Pink - General Contractor
Goldenrod - Extra

Original to be removed by Landfill Operator; remaining copies to be returned by Trucking Contractor to General Contractor. General Contractor to provide Copy 2 to Construction Coordinator and Copy 3 to DPW Construction, Hartford.

MANIFEST\91272
REV. 04/14/1992

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS
STATE OFFICE BUILDING
165 CAPITOL AVENUE
HARTFORD, CONNECTICUT 06106

№ 00814

CONTAMINATED MATERIAL MANIFEST

DPW Project No. BI-2B-760-A12

Site Name: Mystic Oral School

General Contractor's Name & Address:
National Tank & Construction
16-20 Elm Street
West Haven, CT 06516

Trucking Contractor's Name & Address:
S&S Trucking
41 Rose Hill Road
Branford, CT 06405

Truck No. or Other Identification: #15

Material Transported: Soil ✓ Bituminous Concrete ___ Concrete ___
Other ___ Explain: ___

Approximate Volume: 5CY

Contamination: See Letter Dated April 8, 1993

SIGNATURE OF SITE REPRESENTATIVE: Harold D Monell
(Prior to Release) Date: 5-5-93 Time: 10:20

TO BE COMPLETED BY LANDFILL OPERATOR

Weight of Material:
Gross Weight - 52,520 Pounds
Tare Weight - 36,160 Pounds
Net Weight - 16,360 Pounds 8.18 Tons

I hereby certify that the above material was received by this facility and the quantity indicated is true and accurate:

(Signature) Date: 5-5-93 Time: 11:55 am

Name & Address of Landfill Operator:
Superior Landfill Management
41 Rose Hill Road
Branford, CT 06405

White - Landfill Operator
Green - DPW Construction Coordinator
Yellow - DPW Construction
Pink - General Contractor
Goldenrod - Extra

Original to be removed by Landfill Operator; remaining copies to be returned by Trucking Contractor to General Contractor. General Contractor to provide Copy 2 to Construction Coordinator and Copy 3 to DPW Construction, Hartford.

MANIFEST\91272
REV. 04/14/1992

BI-2A-760-A12

APPENDIX D

DAILY ACTIVITIES LOG

MYSTIC ORAL SCHOOL
9-8-92 MYSTIC, CT
ON SITE: MIKE NORTH
CLOUDY, DRIZZLE/RAIN 65°F
LEFT OFFICE 8:30 AM 8696
ARRIVE SITE 9:20 AM
LEFT SITE 4:45 PM 8701
ARRIVE OFFICE 5:45 PM 8706

ARRIVED ON SITE; CONTRACTOR ALREADY BEGUN EXCAVATING SOIL FROM AROUND 250 GAL HF2 TANK LOCATED OUTSIDE OF SCHOOL BUILDING, 7000 GAL AND 10,000 GAL HF2 TANK ADJACENT TO 250 GAL TANK TOOK PICTURES OF PROGRESS AS OF 9:30 AM. CALIBRATED PHOTOVAC MICROTIP, M&E # 04828 WITH AMBIENT AIR (0 PPM) AND ISOBUTYLENE (100 PPM) @ 9:48 AM. CALIBRATION COMPLETE.

CONTRACTOR ON SITE IS SITE REMEDIATION, BILL LONG IS THE SUPERINTENDANT ON THE SITE, PHONE #:

203-623-8179

HAROLD IS A MAINTENANCE PERSONNEL AT THE MYSTIC ORAL SCHOOL. HE IS COVERING FOR HIS BOSS WHO IS ON VACATION TODAY. HE STATED IF WE HAVE PROBLEMS OR NEED SOMETHING DONE LIKE CARS MOVED, DOORS LOCKED AND SECURED TO CONTACT HIM.

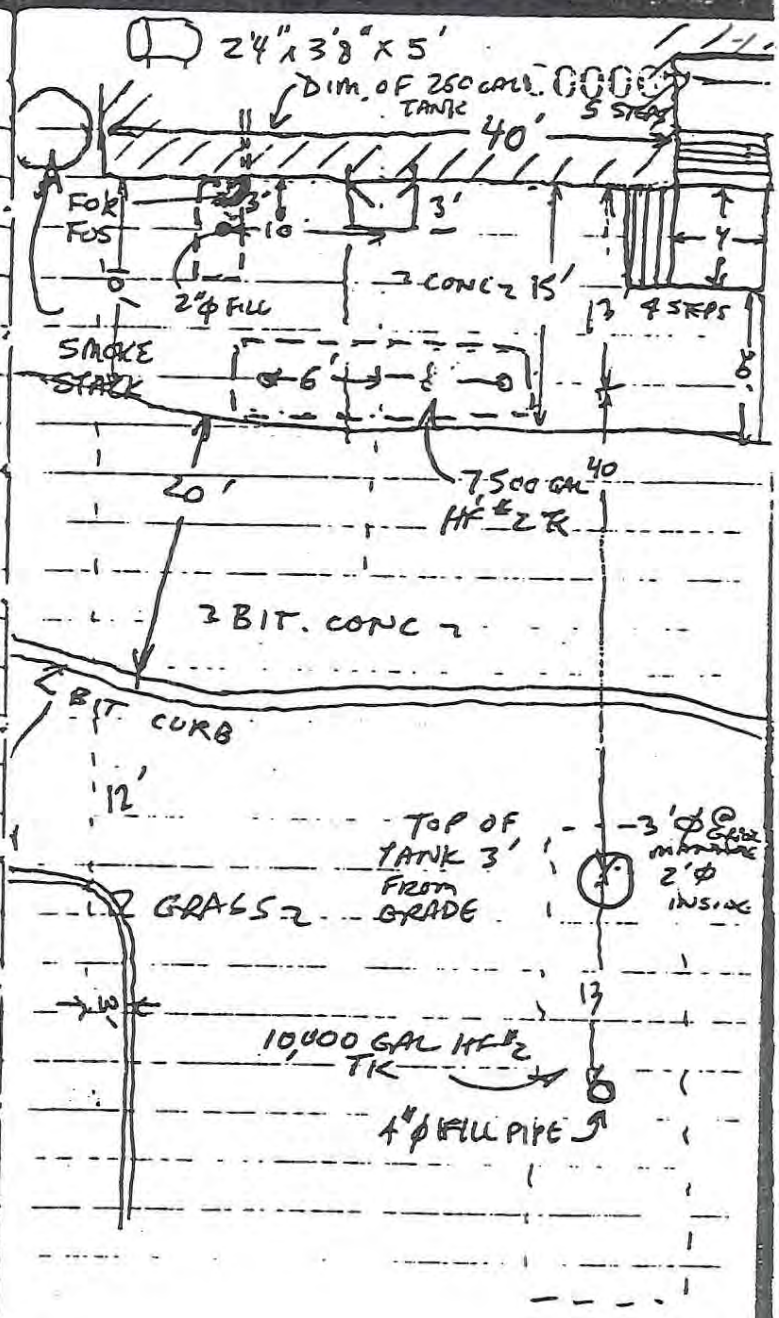
BILL STATED HE IS UNCOVERING THE PIPING SO TO CONNECT LINES FROM HIS 500 GAL TEMPORARY HF&2 TANK, HE IS PLANNING ON CONTINUING IN THIS AREA BY PULLING THE 250 GAL, 7500 GAL AND 10,000 GAL.

THEN TO THE OTHER SIDE OF THE BUILDING TO REMOVE THE 500 GAL GASOLINE TANK.

I SCREENED THE SOIL THAT HAS BEEN EXCAVATED SO FAR. NO RESPONSE TO VOLATILE ORGANICS WHICH MAY BE PRESENT ON THE SOIL. INSPECTION OF THE EXCAVATION SHOWS NO VISIBLE SIGNS OF CONTAMINATION.

CALLED OFFICE @ 10:20 AM SPOKE WITH WILL BAKER, DISCUSSED PROGRESS AS OF THIS TIME, TOLD HIM THINGS ARE RUNNING SMOOTHLY. HE DISCUSSED THAT LARS IS TELLING WHOSE RESPONSIBILITY IT IS TO SHUT THEM DOWN, OURS AND/OR DPW'S. CALLED AND SPOKE WITH LARS, LARS SAID HE WANTS ME TO MAKE THE CALL TO SHUT DOWN THE JOB IF

CONTAMINATION IS HIT. I TOLD LARS I WOULD CALL HIM BACK BEFORE NOON.
CALLED JOHN DEERBORN OF EPS @ 10:40 AM. JOHN WAS NOT IN, I GAVE THE SECRATARY MY BEEPER NUMBER AND TOLD HER TO HAVE JOHN BEEP ME.
I WENT BACK OUT TO THE WORK BEING DONE OUTSIDE. SITE REMEDIATION IS NOW DISCONNECTING PIPES TO AND FROM 7,500 AND 10,000 GAL TANKS, USING CUT OFF SAW.
ED BARTELL, INC, HVAC & PLUMBING COMPANY IS THE SUB CONTRACTOR CONNECTING THE TEMP TANK TO THE BOILER.
11:00 AM. OIL/VAC TRUCK HAS JUST ARRIVED ON THE SITE TO PUMP OUT THE 250 GAL TANK.



1P:20 FINISHED PUMPING OIL OUT OF 250 GAL #2 TANK, PUMPED ONTO A BOX BODY TRUCK WITH A 275 GAL TANK IN BODY.

6500 GAL VAC/OIL TRUCK, CONTRACTOR "DAHL", NORWICH USDOT 453077
CT U.S. TRAILER 87389 (COMM)
PUMPING ≈ 3,500 GALS OF HF #2 OUT OF 7,500 GAL TANK.
BILL IS TAKING SMALLER TRUCK AROUND THE SIDE TO PUMP GASOLINE FROM 500 GAL GASOLINE TANK INTO 55 GAL DRUMS. HE IS USING A SUCTION PUMP (TRANSFER) THE SAME ONE HE USED TO PUMP HF #2 FROM THE 250 TANK. I ASKED BILL IF HE HAD EVER TRANSFERRED GASOLINE IN A PUMP LIKE THIS, HE ASKED BUD FROM DAHL, BUD SAID "OH YEAH, ALL THE TIME". I TOLD BILL IF HE IS COMFORTABLE

USING THIS PUMP, THEN USE IT BUT ITS NOT MY PROBLEM IF AN ACCIDENT OCCURS. BEGAN PUMPING GASOLINE INTO DRUMS @ 11:30 AM. THE OTHER CREW IS CONTINUING TO DRAIN AND CUT HF #2 FUEL LINES TO 7,500 AND 10,000 GALLON TANKS
DISCUSSED WITH BILL HIS PLANS OF REMOVAL FOR THE DAY. HE STATED HE HOPES TO GET THE 500 GAL GASOLINE TANK AND THE 250 GAL HF #2 TANK OUT, DRY ICED AND ON POLY BY THIS AFTERNOON.
- WAS BEEPED BY JOHN DEERBORN CALLED HIM @ 11:40 AM.
BEEPER 483-730-0311
CALLED JOHN, HE AND I DISCUSSED COMMDOT WILLINGTON, WHEN TO SCHEDULE WORK. HIS SCHEDULE LOOKS GOOD FOR THIS WEEK.
HE TOLD ME OF HIS PUMP TEST FOR PRODUCT 28 GALS IN ½ HR. "SPILL BUSTER". I TOLD HIM I

SAW A MESSAGE ON MY DESK TO INCLUDE IT IN THE SPECS. I TOLD JOHN I WOULD TRY TO PUSH THAT WORK PLAN THROUGH. TOLD HIM WHAT TO ANALYZE FOR THE AQUATIC TOXICITY TEST, DAPHNE PULEX (WATER FLEA) AND FATHEAD MINNOWS. TOLD HIM TO COLLECT ANOTHER SAMPLE. TOLD JOHN I WOULD BE IN TOUCH WITH HIM THIS AFTERNOON AFTER I SPEAK WITH RICH ULKUS.

GOING TO CALL LARS NEXT. 12:00 PM BILL BONG BRIEFED HAROLD AND I ON HIS PLANS FOR THIS AFTERNOON. HE IS TO PULL THE 500 GAL GASOLINE, 250 GAL HF #2 TANK AND BEGIN UNCOVERING 7,500 GAL TANK MAYBE PULL IT OUT AS WELL. HIS CREW IS BREAKING FOR LUNCH NOW, ~~12:00 PM~~ 12:00 PM. SHOULD BE BACK AT 12:30 PM.

HAS BOTH SMALL TANKS PUMPED OUT AND IS TO CONTINUE PUMPING FUEL OUT OF 7,500 GAL HF #2 TANK THROUGH LUNCH.

I BROKE FOR LUNCH @ 12:05 PM. BACK ON SITE @ 12:35 PM. SITE REMEDIATION CREW ON SITE @ 12:45 PM. DRY ICE HAD JUST ARRIVED @ 12:30 PM. 450# OF DRY ICE DELIVERED. CREW TO BEGIN REMOVAL OF BOTH THE 250 GAL HF #2 AND 500 GAL GASOLINE TANKS. HAROLD INTRODUCED ME TO RICH, PROJECT SITE COORDINATOR. SITE REMEDIATION BEGINING TO EXCAVATE SOIL FROM AROUND 500 GALLON GASOLINE TANK, CHECKED THE EXCAVATED SOIL WITH MICROTIP, NO RESPONSE. DEPTH OF TANK FROM GRADE IS DEEP. OVER 4'. STILL HAVE NOT REACHED THE TOP OF THE TANK.

HAVE FOUND THE TOP OF TANK AT APPROX. 5.5' BELOW GRADE. TANK IS INSTALLED NORTH TO SOUTH, RATHER THAN EAST TO WEST AS INDICATED ON THE PLAN. THERE IS A WATER LINE ON THE NORTH SIDE OF TANK APPROX. 5-8 FEET FROM FILL PIPE, A STEAM LINE SOUTH OF TANK. BILL IS TO DIG FROM EAST TO WEST TO GET THE TANK OUT. LOTS OF LARGE BOULDERS TO THE WEST OF TANK. SITE REMEDIATION TO SWITCH BUCKETS TO A LARGER BUCKET TO GET THE LARGER BOULDERS OUT OF THE EXCAVATION. THE BACKHOE IS SCHEDULED TO LEAVE TODAY. BILL TELLS ME THE OIL DELIVERY PERSONNEL SAYS THERE IS #4 OIL IN THE 10,000 GALLON TANK, AND THAT DAGH WILL ONLY TAKE THE TOP HALF, APPROXIMATELY

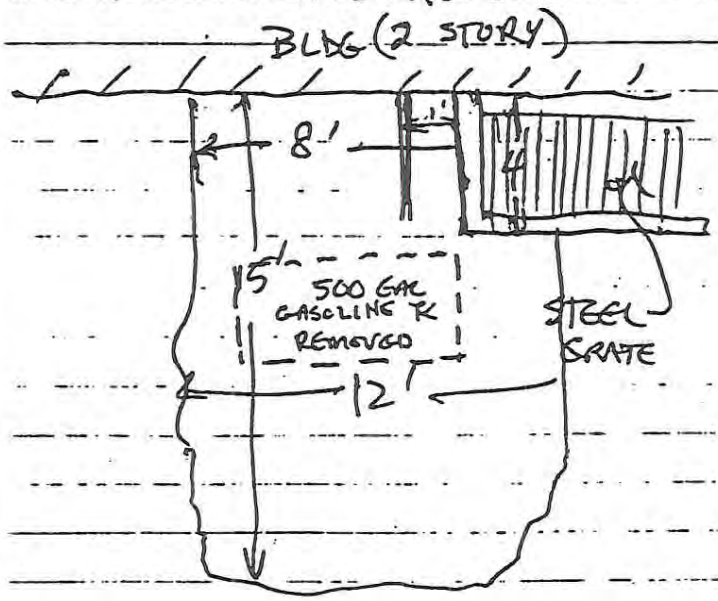
1500 GALS. BILL WANTS TO KNOW IF IT IS HIS RESPONSIBILITY TO REMOVE THE TANK CONTENTS OR IS IT THE STATE'S. I SAID UNFORTUNATELY I DONT HAVE THE LIBERTY OF HAVING A COPY OF THE CONTRACT DOCUMENTS, HOWEVER A SIMPLE PHONE CALL TO OUR OFFICE SHOULD CLEAR THINGS UP. I CALLED OUR OFFICE @ 2:00 PM. LARS BUSY, SPOKE WITH WILL BAKER, HE SAID HE THINKS IT IS THE RESPONSIBILITY OF THE CONTRACTOR SHOULD SAY ON PLANS UNDER "NOTES" SECTION. I CHECKED THE PLAN AND SURE ENOUGH ITEM 9 SAYS " TANK REMOVAL INCLUDES REMOVAL AND DISPOSAL OF ANY REMAINING CONTENTS." SEEMS PRETTY CLEAR TO ME. WILL SAID TO CHECK WITH LARS TO BE CERTAIN.

WILL PUT ME ON HOLD FOR A WHILE. I'LL CALL BACK @. 2:20 PM. I WENT BACK OUTSIDE, SPOKE WITH RICH AND BILL, RICH BELIEVES IT CAN FALL UNDER TWO CATAGORIES, AS A WASTE LIQUID IN WHICH IT WOULD BE EXTRA, OR COVERED UNDER THE TERM REMOVAL OF ALL LIQUIDS, RICH SAID HE WOULD FIND OUT HOW THE AGENCY WANTS TO HANDLE IT.

SITE REMEDIATION HOOKING UP CHAIN TO TANK, DRY ICE HAS BEEN IN TANK FOR APPROXIMATELY 45 MINUTES, THE 500 GAL STEEL GASOLINE TANK WAS REMOVED @ 2:30 PM, INSPECTION OF THE TANK REVEALED EXTENSIVE SURFICIAL CORROSION OVER THE ENTIRE EXTERIOR SURFACE. NO RUST HOLES OR BREACHES.

VENT & FILL PIPING WAS COPPER, SO NO CORROSION. FOR AND FOS LINES WERE COPPER AS WELL, PIPES EITHER BRASS OR COPPER.

EXCAVATION WAS AS SUCH



DIMENSIONS OF TANK 4'Ø X 6'
NO USUAL SIGNS OF SOIL CONTAMINATION AND NO RESPONSE IN THE AMBIENT AIR. SITE REMED. (MOVED)

TANK OVER TO PARKING LOT, PLACED ON PLASTIC AND PREPARED TO REMOVE THE 250 GAL HF #2 TANK. REMOVED THIS TANK @ 2:45 PM. EXTENSIVE CORROSION OVER ENTIRE SURFACE. NO RUST HOLES OR BREACHES. SOME SIGNS OF VISIBLE STAINING IN HOLE. TO CONFIRM WITH HEADSPACE AT SOON AS SITE REMED CREW FINISH MOVING AND PLACING TANK ON POLY, DISPOSAL OF TANKS TO BE TOMORROW BY NORTHEAST TANK DISPOSAL SERVICE.

CALLED LARS AGAIN @ 3:00 PM. TOLD HIM WE GOT BOTH OF THE SMALL TANKS OUT AND THAT THE TWO BIG ONES ARE PLANNED FOR TOMORROW. HE SAID GOOD. TAKE YOUR SAMPLES AND PLAN ON BEING DOWN THERE TOMORROW. TOLD HIM THE CONTAMINATION I SAW AT

THE BASE OF THE 250 GAL HF #2 TANK GRAVE I WILL SAMPLE AND ANALYZE THE HEADSPACE. LET LARS TALK TO RICHARD AND HAVE THEM DISCUSS THE LIQUID DISPOSAL ITEM.

GRABBED A SOIL SAMPLE @ 3:10, AGITATED AND LET SIT TIL 3:25, AGITATED AGAIN AND TEST HEADSPACE CONC. 0 ppm! GRABBED MY CONFIRMATION SAMPLES FROM 250 GAL HF #2 AND 500 GAL GASOLINE TANK GRAVES.

250 GAL HF #2 GRAVE

MYSOSC - MS001 NORTH WALL
MYSOSC - MS002 EAST WALL
MYSOSC - MS003 SOUTH WALL
MYSOSC - MS004 WEST WALL
MYSOSC - MS005 BOTTOM

2 - 100 ml GLASS JARS.
ANALYZE FOR 8010/8020, TPH

500 GAL GASOLINE GRAVE
MYSOSC-MS006 NORTH WALL
MYSOSC-MS007 EAST WALL
MYSOSC-MS008 SOUTH WALL
MYSOSC-MS009 WEST WALL
MYSOSC-MSD10 BOTTOM
3-100 ml GLASS JARS
ANALYZE FOR 8010/8020 + MTBE
TPH AND TCLP LEAD.

PLACED SAMPLES IN COOLER AND
GOT EQUIPMENT TOGETHER IN
PREPARATION TO DEMOB FROM
SITE. TO PICK UP ICE ON THE
WAY HOME. BILL LONG OF
SITE REMEDIATION SAID THEY
ARE PLANNING TO BE BACK
ON SITE TOMORROW, 9-9-92
TO BEGIN REMOVING THE 7,500
GAL AND 10,000 GAL HF #2
USTs, THE 250 GAL HF #2
AND 500 GAL GASOLINE TANKS
ARE PLACED ON PLASTIC POLY

AND COVERED WITH POLY IN
PARKING LOT. ALL TANKS TO BE
PICKED UP TOMORROW FOR
DISPOSAL. I FILLED OUT
SAMPLE LOG, AND LEFT THE
SITE @ 4:45 P.M.

Michael R Mott

MYSTIC ORAL SCHOOL
9-9-92 MYSTIC, CONNECTICUT
ON SITE: MIKE NORTH
CLOUDY, OVERCAST 65-70°F
LEFT OFFICE: 7:00 AM 87077
ARRIVE SITE: 8:00 AM 87027
LEFT SITE:
ARRIVE:

ARRIVED ON SITE, SITE REMED.
CREW ALREADY STARTED
EXCAVATING 7,500 GAL HF #2
TANK, DIGGING ALONG THE
EAST & WEST SIDES. MUCH OF
THE CONCRETE SIDEWALK.
SITE REMED. READY TO PULL
TANK. CALIBRATED PHOTOVAC
MICROTIP, M&E # 04828
WITH AMBIENT AIR (0 PPM)
AND 100 PPM ISOBUTYLENE
@ 8:05. SITE REMED.
HOOKED UP CHAINS AND
CABLES, REMOVED TANK FROM

GRAVE @ 8:15 AM. VISUAL
INSPECTION OF TANK REVEALED
EXTENSIVE SURFICIAL CORROSION
OVER 90% OF THE TANK, SEVERE
ON LOWER HALF. INSPECTION
REVEALED NO RUST HOLES OR
BREACHES THROUGH. TO SAMPLE
4 SOIL SAMPLES FROM SOIL
STAGED ON SIDE ON EXCAVATION,
TEST HEADSPACE

	TIME SAMP	TIME ANAL	RESPONSE
NORTH	8:43	8:57	0 PPM
EAST	8:48	8:59	0 PPM
SOUTH	8:42	8:56	0 PPM
WEST	8:37	8:53	0 PPM

NO RESPONSE ON ANY OF THE
SOIL SAMPLES, APPROXIMATELY
35-40 CU. YDS OF SOIL
STOCKPILED FROM SOIL EXCAVATION
AROUND 7,500 GAL HF #2 TANK
BILL SAID HIT PLOY OF
BOULDERS IN 7,500 GAL TANK

EXCAVATION, SITE REMED.
CREW STARTED EXCAVATING
SOIL FROM AROUND 10,000
HE #2 TANK @ 8:45, LOTS
OF BOULDERS AGAIN, SOIL IS
SIMILAR TO SOIL ENCOUNTERED
YESTERDAY AND TODAY, MED-COARSE
SAND AND GRAVEL WITH SOME
COBBLES, SOME BOULDER; SOME
OF THE BOULDERS ARE 3'-4'
LONG
INSPECTION OF 7,500 GAL
TANK GRAVE SHOWS SOME
DARK DISCOLORED SOIL, DIFFERENT
THAN THE NATURAL FORMATION,
IN THE AREA OF THE PIPING
SUMP WHICH CONSISTED OF
A 4'x4' EXT DIM CONCRETE
VAULT, POURED IN PLACE OVER
THE TANK AT THE NORTH END.
DEPTH OF EXCAVATION IS ≈
11' DEEP. TOLD BILL THAT
BEFORE WE CAN ADDRESS

THE SUSPECTED CONTAMINATION,
TO GRAB A SAMPLE ONCE SITE
REMED. IS DONE REMOVING
THE 10,000 GAL TANK, ANALYZE
THE HEADSPACE, THEN CALL
FUSS & O'NEILL & CONNDEP
- ANALYZING HEADSPACE FOR
EXCAVATED SOIL,

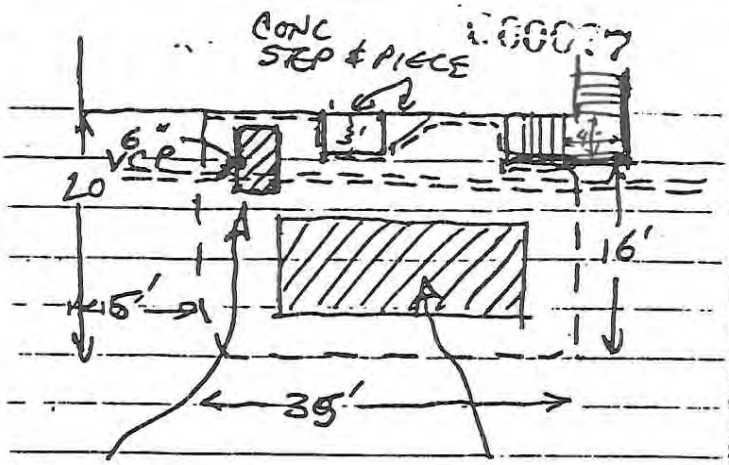
		TIME SAMPLE	TIME ANAL.	RESPONSE
1 ST	10 CU.YD	9:07	9:25	0 PPM
2 ND	10 CU.YD	9:15	9:33	0 PPM

SITE REMED. CREW HIT STEAM
LINE ON THE NORTH SIDE OF
10,000 GAL TANK, BROKE IT,
ONE OTHER PIPE, SAME SIZE, POSSIBLY
ASBESTOS LINES, A LARGER PIPE,
APPROXIMATELY 12" Ø, AND A 1" Ø
ELECTRICAL CONDUIT. BILL NOT
HAPPY. WONT BE ABLE TO
REMOVE MUCH SOIL FROM
NORTH SIDE OF TANK.
NORTHEAST TANK DISPOSAL TRAILER
HAS JUST ARRIVED, TO PICKUP

THE 7,000 GAL TANK,
TIM DESROCHES IS THE FACILITY
MANAGER, HE WAS ON VACATION
~~YESTERDAY BUT I~~ YESTERDAY BUT IS
ON SITE TODAY. HE HAS BEEN
OVERVIEWING ALL ACTIVITIES
ON GOING TODAY.
CALLED 9:50 AM TO OFFICE,
SOMEBODY BEEPED ME. SPOKE
WITH BERNI, SHE WANTED TO
TELL ME THAT 24 HR TURNAROUND
ON ONLY HF#2 TANK GRAVE
BOTTOM SAMPLES IN WHICH A
TANK IS BEING REPLACED. ELSE
3-5 DAY ON EVERYTHING
ELSE. SHE SAID THERE SHOULD
BE A LOTUS SPREADSHEET
EXPLAINING ALL THIS. I
TOLD HER I HADN'T SEEN IT
DURING REVIEW OF ALL DOCUMENTS
I HAD, BUT I WOULD CHECK.
ALSO, SOIL SAMPLE TO BE
TAKEN FROM SOIL STAGED TO

THE SIDE OF EACH TANK EXCAVATION
TO ANALYZE TO DETERMINE IF
SUITABLE FOR ON SITE REUSE.
SAME TURNAROUND, 3-5 DAYS,
TO SEPARATE SOIL SAMPLE FOR
DIFFERENT PRODUCT TANKS, IE
GASOLINE VS. HF#2. I THEN
WAS TOLD THAT IF WE ARE TO HAVE
SAMPLES COLLECTED AND ARE TO
HAVE LABORATORY RESOURCES
PICK THEM UP AT OUR OFFICE,
THEN TO CALL AT END OF DAY,
SO SOMEONE CAN ARRANGE A
MORNING PICKUP. SPOKE WITH
LABS, TOLD HIM ABOUT THE
CLAY PIPE THAT WAS HIT AND
BROKEN, ALSO THE STEAM
RETURN LINE IN THE 10,000
GAL HF#2 TANK GRAVE THAT
WAS HIT & BROKEN. HE SAID
THAT HE'LL PROBABLY HEAR
FROM RICH ABOUT IT. SITE
REMEDIATION CREW GETTING

READY TO PULL 10,000 GAL HF#2 TANK. HOOKING UP CABLES TO LIFTING LUGS. PULLED TANK UP ON ONE END @ 10:40 AM. CONNECTICUT WASTE OIL VAC TRUCK, 3500 GAL CAP. USDOT 035720 WALLINGFORD CT, PULLED UP TO EDGE OF EXCAVATION TO PUMP THE REST OF THE RESIDUAL OUT OF THE TANK. CT. LIS. H6942 CT HW LIS#: CTHW 127 LOADED UP A TOTAL OF 1500 GALS OF WASTE #2 OIL AND SLUDGE. SKETCH OF 7,500 GAL TANK GRAVE IS ON OPPOSITE PAGE. GRABBED A SAMPLE FROM GASOLINE TANK GRAVE STAGED SOIL. SAMPLE # MY505C MS0011 SITE REMEDIATION LEFT THE SITE @ 11:30 TO GET SUPPLIES AND GRAB LUNCH, I LEFT THE SITE @ 11:45 AM TO GRAB



LOCATION OF REMOVED 750 GAL HF#2 TANK

LOCATION OF REMOVED 7,500 GAL HF#2 TANK

AS WELL.

- TO BACKTRACK; ANALYZED A THIRD 10 YD SOIL SAMPLE FOR HEADSPACE FOR SOIL FROM THE 10,000 GAL TANK GRAVE @ 10:15 SAMPLED, 10:30 ANALYZED, RESPONSE 0 PPM
- RETURNED TO SITE @ 12:30 PM. SITE REMEDIATION CREW NOT BACK FROM LUNCH YET. CREW RETURNED @ 1:00 PM.

THE REMOVED THE UNDERGROUND PIPING THAT WAS IN THE TANK GRAVE, WHILE THEY WERE DOING THAT I GRABBED A SAMPLE OF THE DARK STAINED SOIL SUSPECTED TO BE CONTAMINATED. GRABBED A COMPOSITE AREA SAMPLE OF THE SOIL AT 1:00 P.M. ANALYZED THE HEADSPACE @ 1:10 PM RESPONSE OF 0 PPM. COLLECTED ANOTHER SAMPLE OF THE SAME MATERIAL TO ANALYZE AGAIN TO BE SURE, GRABBED A COMPOSITE OF SOIL FROM THE STAINED AREA @ 1:15 PM. ANALYZED THE HEADSPACE @ 1:25 PM. AGAIN 0 PPM. SOIL IS JUST A DIFFERENT MATERIAL, MOSTLY MED.-COARSE SAND THAT IS MOIST FROM RAIN YESTERDAY OR JUST SOIL MOISTURE.

SOIL HEADSPACE FROM SAMPLES COLLECTED FROM 7500 GAL HF #2 TANK GRAVE

SAMPLE	TIME SAM	TIME ANAY	RESP.
EAST	1:42	1:52	0.0 PPM
SOUTH	1:44	1:54	0.0 PPM
WEST	1:48	1:58	0.0 PPM
NORTH	1:50	2:02	0.0 PPM
BOTTOM	1:52	2:03	0.0 PPM

COLLECTED SOIL SAMPLES FROM THE 4 SIDE WALLS AND BOTTOM OF 7500 GAL HF #2 TANK GRAVE

LOCATION	TIME	SAMPLE #
NORTH WALL	2:15	MY50SC-MS012
EAST WALL	2:15	MY50SC-MS013
SOUTH WALL	2:15	MY50SC-MS014
WEST WALL	2:15	MY50SC-MS015
BOTTOM	2:15	MY50SC-MS016
BOTTOM (QA)	2:15	MY50SC-MS017

DEPTH OF SAMPLES WERE BETWEEN 8-9' DEPTH WITH BOTTOM SAMPLED @ 11' DEPTH.

PO # 30411 FOR LABORATORY RESOURCES SUB-CONTRACT. SPOKE WITH LARS @ 3:40 pm. TOLD HIM EVERYTHING LOOKS A-OK. SPOKE WITH BERN WITH REGARDS TO SAMPLING, SHE SAID QA SAMPLES GENERALLY 10% OF TOTAL SAMPLES, SO 20 SAMPLE, 2 QA SAMPLES, FOR STAGED SOIL, CLEAN OR DIRTY, TO SAMPLE AND ANALYZE FOR 8010/8020+ MTBE, TPH, TCLP Metals and Flashpoint, Flash-point with TPH sample jar.

COLLECTED SAMPLES FROM 10,000 GAL HF#2 TANK GRAVE, PERFORMED HEADSPACE ANALYSIS USING THE PHOTOVAC MICROTIP.

SAMPLE LOC	SAMPTIM	ANAL TIME	RESP
NORTH WALL	3:36	3:52	0.0 ppm
EAST WALL	3:38	3:53	0.0 ppm
SOUTH WALL	3:40	3:55	0.0 ppm
WEST WALL	3:42	3:56	0.0 ppm
BOTTOM	3:44	3:56	0.0 ppm

COLLECTED SAMPLES IN JARS FOR LABORATORY ANALYSIS

LOCATION	TIME	SAMPLE NO.
NORTH WALL	4:00	MY50SC-MS018
EAST WALL	4:00	MY50SC-MS019
SOUTH WALL	4:00	MY50SC-MS020
WEST WALL	4:00	MY50SC-MS021
BOTTOM	4:00	MY50SC-MS023
WEST WALL (QA)	4:00	MY50SC-MS022
STAGED SOIL	4:30	MY50SC-MS024

MYSTIC ORAL SCHOOL
9-21-92 MYSTIC, CT
* TRANSFERED FROM MARK LEWIS'S FIELD NOTE INTO FIELD BOOK.
ON SITE: MARK LEWIS
@ 9:30 AM.
MET BILL, FOREMAN FOR CONTRACTOR. DIRECTED HIM TO EXCAVATE FROM WEST SIDE AND BOTTOM OF 7500 gal TANK GRAVE, & SOUTH, BOTTOM, N. & EAST OF LITTLE GRAVE.
FOR THE BIG GRAVE, I TOLD HIM TO PULL BACK A FEW FT ON SIDE AND BOTTOM.
- THEY BEGAN EXCAVATING AT 10:00, STARTING W/ THE BOTTOM. BUCKET IS SCRAPING ALONG LENGE AT BOTTOM.
- CONTRACTOR WANTED TO REMOVE SOIL ONLY FROM VERY BOTTOM OF WEST SIDE, WHERE SAMPLE WAS PREVIOUSLY TAKEN,

I DIRECTED HIM TO REMOVE 2 FT. FROM ENTIRE WEST SIDE OF EXCAVATION - FROM PAVEMENT TO TOP OF HOLE.
- COMPLETED EXCAVATION AT 10:25 ON THE LARGE TANK.
- I DIRECTED CONTRACTOR TO TAKE 2 SAMPLES USING BUCKET OF MACHINE, I COLLECTED SAMPLE FROM BUCKET
MEMOS-25-SL BOTTOM AT S. END
MEMOS-26-SL WEST SIDE @ MID.
- TOOK 4 PHOTOS OF THIS EXCAVATION
CONTRACTOR ESTABLISHED STAGING AREA ON PAVEMENT TO NORTH OF EXCAVATION

10:35 CONTRACTOR BEGAN EXCAVATING LITTLE TANK, BROKE COPPER GAUGE LINE THAT ENTERS BLDG AT NORTH END OF LITTLE TANK GRAVE

I COLLECTED THE FOLLOWING SAMPLES

MEMOS-27-SL LITTLE TANK N. SIDE
MEMOS-28-SL LITTLE TANK E. SIDE AT BOTTOM BY FOUND.
MEMOS-29-SL LITTLE TANK S. SIDE
MEMOS-30-SL LITTLE TANK, BOTTOM

- NOTE: PID SHOWED NO READINGS FOR ANY OF THESE SAMPLES, NO VISUAL EVIDENCE OR ODOR OF PRODUCT IN ANY SAMPLE

- EXCAVATED ABOUT 15 YDS^3 ADDITIONAL.
- CONTRACTOR ASKED ABOUT STATUS OF GAS TANK, WHICH IS TO EAST OF BOILER ROOM, I CHECKED W/ RICH ULKUS, WHO SAID IT COULD BE BACKFILLED W/ SOIL THAT CAME FROM HOLE. I PASSED THIS ON TO CONTRACTOR.

DUG SOIL ON NORTH SIDE OF SMALL TANK BY HAND DUE TO PIPES IN VACINITY, & IN EAST SIDE THEN FINISHED OFF BOTTOM BY HAND.

- WHEN I LEFT AT 12:25 THEY WERE FINISHING STAGING THE SOIL FROM HOLE. I REMINDED THEM THAT PILE SHOULD BE COVERED WITH PLASTIC.

MYSTIC ORAL SCHOOL
10-1-92 MYSTIC, CT
ON SITE: MIKE NORTH
SUNNY, COOL 55°F
LEFT OFFICE: 8:00 AM 88001
ARRIVE SITE: 9:00 AM 88053
LEAVE SITE: 12:30 PM 88053
ARRIVE OFFICE 2:00 PM 88117

ARRIVED ON SITE @ 9:00 AM, SPOKE WITH CREW FROM SITE REMEDIATION WITH REGARDS TO WHERE WE ARE GOING TO NEED TO REMOVE MORE SOIL. TOLD THEM THE BOTTOM OF THE 7500 GAL TANK GRAVE, BOTTOM AND SOUTH WALL OF 275 GAL TANK GRAVE. CREW MOBILIZED THEIR MACHINE JOHN DEERE 710B BACKHOE & DUMP TRUCK

CALLED CLARS ON THE PHONE, TOLD ME THAT TYREE CORP. WILL BE UNABLE TO MOBILIZE TO LEH TODAY, MAYBE TOMORROW, I SAID OK.

10:30 SITE REMEDIATION CREW IS CLEANING SOIL FROM THE BOTTOM OF THE 7,500 GAL TANK GRAVE GOING DOWNWARD TO 1'-1½'. 10:45 CLEANING SOIL FROM THE SOUTH WALL & BOTTOM OF THE 275 GAL TANK GRAVE, SOUTH WALL IS FOR THE MOST PART SOIL UP AGAINST THE PORCH FOOTING. REMOVED AS MUCH SOIL AS WE COULD WITHOUT UNDERMINING THE PORCH FOOTING AND HITTING THE CLAY DRAIN PIPE.

BEGAN REMOVING SOIL FROM THE NORTH END OF THE BOTTOM OF THE TANK GRAVE FOR THE 7,500 GAL HE#2 TK. HIT AN AREA OF SOME DISCOLORED (BLACK) SOIL, HAD A SAMPLE CHECKED, HAD A HE#2 OIL SMELL. INSTRUCTED SITE REMED. BACKHOE OPERATOR TO CONTINUE REMOVING MORE SOIL FROM THAT AREA. HAVE REMOVED ≈ 16 YDS³ AT THIS POINT 11:25 AM. RICH MC PHALL ARRIVED @ THE SITE, SAID THAT HE DISAGREES WITH THE TOPIC OF THE TEMP. HEATING TANK. I TOLD HIM I HAVE NO IDEA ABOUT THE WHOLE SUBJECT. HE ASKED HOW THE REMOVAL OF CONTAMINATED SOIL WAS GOING, I TOLD HIM THE BASED OF THE 7500 GAL

TANK GRAVE WAS ALMOST COMPLETE, BUT WE HIT A POCKET OF MORE CONTAMINATION @ THE NORTH END OF THAT GRAVE. TO HAVE SITE REMED. CREW REMOVE AS MUCH SOIL AS PHYSICALLY POSSIBLE. SOIL FELL AWAY FROM THE BANK ALONG THE NORTH WALL OF THE 7,500 F GRAVE, A ROTTED ELECTRICAL CONDUIT BROKE IN THREE PLACES AS A RESULT. I TOLD RICH ABOUT IT. RICH IS TO HAVE SITE REMED. BRING THEIR ELECTRICIAN ON SITE TO FIX IT. I TOLD RICH HE SHOULD REPLACE THE LINE FROM BUILDING TO BUILDING. HE SAID HE WOULD THINK ABOUT IT. 12:00 PM HAVE COMPLETED THE SOIL REMOVAL EFFORTS. SITE REMED CREW IS COVERING SOIL WITH POLY

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC WORKS

UNDERGROUND STORAGE TANK PROGRAM

39-11786

T. R. Anson
Commissioner

May 29, 1996

RECEIVED

MAY 30 1996

DEP WASTE MANAGEMENT BUREAU
UNDERGROUND STORAGE TANK
ENFORCEMENT PROGRAM

G. Scott Deshefy
UST Enforcement
79 Elm Street
Hartford, CT 06106-5127

Re: Statewide Underground Tank Program
DPW Project No. BI-2B-760-B169 (A164)
Mystic Oral School

Subject: Tank Removal Report

Dear Scott:

Enclosed please find the report of activities at the subject site, prepared by Fuss & O'Neill, Inc. We have reviewed this report and concur with its recommendations.

Contaminated levels were found to be below prescribed action levels. Therefore, we are considering this closure of the subject site.

If you have any questions, or wish to discuss this matter further, feel free to contact me at 566-6322.

Sincerely,

Joseph V. Cassidy, P.E.
Project Manager

JVC:nm (60)
Attachment

cc: Fuss & O'Neill w/o
Closure File w/a

Room 462 - 4th Floor
Phone: 860-566-6322

146 Hartford Road, Manchester, CT 06040-5921
TEL 860 646-2469 FAX 860 643-6313

1200 Converse Street, Longmeadow, MA 01106-1721
TEL 413 567-9886 FAX 413 567-8936

Providence, RI TEL 401 828-3510

Fuss & O'Neill Inc. *Consulting Engineers*

Solid Waste Management	Environmental Engineering
Industrial/Hazardous Waste Management	Wastewater Management
Stream Impact Analysis	Site Planning/Engineering
Water Resources Engineering	Hydrogeology
Transportation Engineering	Park Design
Environmental Field Services	Surveying

May 31, 1996

Mr. Joseph V. Cassidy, P.E.
Project Coordinator
State of Connecticut
Department of Public Works
State Office Building Room 462
165 Capitol Avenue
Hartford, CT 06106

RE: Statewide Underground Storage Tank Program
DPW - Project No. BI-2B-760-B169 (Site A164)
Mystic Oral School
Mystic, Connecticut

Dear Mr. Cassidy:

Enclosed please find a summary of our findings and recommendations associated with the removal of one 10,000-gallon No. 2 fuel oil tank at the above referenced site. The removal was initiated by Site Remedation Services Inc. on April 1,1996 as part of the Connecticut DPW Statewide Underground Storage Tank Program.

Please note that Fuss & O'Neill, Inc. has been unable to obtain any disposal documentation from the Contractor. DPW should follow-up on the disposal documentation to assure that proper disposal procedures are being followed.

Should you have any questions or comments, please do not hesitate to call.

Sincerely,

for JPL

James P. Lardie
Project Hydrogeologist

John B. Hankins, CPG
Associate

Enclosure

91272\M9\REMoval.WP

bc: Brad Freeman - (w/enclosures)
Phil Moreschi (w/some enclosures)
91272 M9 - Mystic Oral School (w/enclosures)

CONNECTICUT DEPARTMENT OF PUBLIC WORKS
STATEWIDE UNDERGROUND STORAGE TANK PROGRAM
CONN DPW PROJECT NO. BI-2B-760-B169
TANK REMOVAL REPORT

SITE NAME: MYSTIC ORAL SCHOOL TANK ID: E

BACKGROUND

SITE INFORMATION

Site Name: Mystic Oral School

Site Address: 240 Oral School Road

Site Contacts: Tim Desroches Phone: 860-536-4221

AGENCY

Agency Name: Bureau of Public Works Phone: 860-566-7517
Agency Contact: George Niles

GW Classification: GA

CONTRACTORS

GENERAL CONTRACTOR - Site Remediation Services, Inc.

TANK DISPOSAL

Hauler: Site Remediation Services Phone: 860-623-8179

Disposal Site: Phone:

Address:

Disposal Certificate Attached: Yes ___ No X

LIQUID DISPOSAL

Hauler: Phone:

Disposal Site: Phone:

Address:

Quantity: gallons Date: Manifest Attached: __ Yes X No

SOIL DISPOSAL

Hauler: NA Phone:

Disposal Site: NA Phone:

Address:

Quantity: tons Date: Manifest Attached: __ Yes X No

Disposal Documentation Attached.

Comments:No contaminated soil requiring off site disposal was encountered.

CONNECTICUT DEPARTMENT OF PUBLIC WORKS
STATEWIDE UNDERGROUND STORAGE TANK PROGRAM
CONN DPW PROJECT NO. BI-2B-760-B169
TANK REMOVAL REPORT

SITE NAME: MYSTIC ORAL SCHOOL TANK ID: E

TANK DATA

TANK DESCRIPTION

Tank ID: E Date Removed: 4/1/96

Dimensions: 8' (dia.) x 27' (length) Capacity: 10,000 gallons

Tank Material: X Steel ___ Fiberglass

X Good (not visibly deteriorated)
___ Fair (some corrosion, no obvious signs of tank failure)
___ Poor (visible holes, obvious failure)
___ Tank Not Inspected

Tank Used For: __ Gasoline __ Diesel _ Waste Oil X #2 Oil __ #4 Oil __ #6 Oil

FIELD OBSERVATIONS

EXCAVATION DETAILS

Soil Type: Light brown and grey sand

Evidence of Bedrock: Yes X No ___ Depth ≈13'

Groundwater Present: Yes ___ No X Depth

Structural or Removal Limitations: None

Comments:

Site Sketch Attached: Yes X No ___

SAMPLING DATA

FINAL SOIL SAMPLING (Sample locations indicated on site sketch)

Analytical Methods: X 8010/8020 X 418.1 __ SPLP Lead __ SPLP RCRA 8 __ PCBs

Laboratory: Contest and F&O Mobile Lab
Date Collected: 4/1/96,4/2/96, and 4/19/96

GROUNDWATER SAMPLING

Analytical Methods: __ 8010/8020 __ 418.1 __ Dissolved Lead __ SPLP RCRA 8 __ PCBs

Laboratory:
Date Collected: No Sample

Analytical Data for All Samples Attached: Yes X No __

CONNECTICUT DEPARTMENT OF PUBLIC WORKS
STATEWIDE UNDERGROUND STORAGE TANK PROGRAM
CONN DPW PROJECT NO. BI-2B-760-B169
TANK REMOVAL REPORT

SITE NAME: MYSTIC ORAL SCHOOL TANK ID: E

CONCLUSIONS (check all that apply)

TANK ID # E

Soil

X Initial soil sample results indicate all contaminant concentrations are below action level

____ Initial soil sample results or field detection indicate contamination above action levels, but additional soil was removed and final soil samples indicate all contaminant concentrations are below action levels.

____ Soils contamination persists above action level because of the following:

- ____ Physical limitations (i.e. utilities, structures, etc., see sketch)
- ____ Soil contamination extends into the saturated zone
- ____ Contamination is extensive and other remedial options will be evaluated.

Groundwater

X Groundwater not evaluated.

____ Groundwater analysis indicate contaminant concentrations below action levels.

____ Groundwater analysis indicate contaminant concentrations in excess of regulatory action levels.

RECOMMENDATIONS

X No further investigation or remediation.

____ Determine potential receptors.

____ Install well(s) and monitor groundwater quality.

____ Investigate nature and extent of contamination.

____ Initiate an emergency remediation program.

Comments: A 10,000 gallon fiberglass tank was installed in the tank grave. Stockpiles of soil below the DEP action limit remain on site. Bedrock was removed on the west end of the tank grave.

Attachments

Prepared by:

James P. Lardie
Project Hydrogeologist

Reviewed by:

John B. Hankins
Associate

TABLE 1
SOIL SAMPLE RESULTS
STATEWIDE UNDERGROUND TANK PROGRAM
10,000-GALLON NO. 2 FUEL OIL TANK E
MYSTIC ORAL SCHOOL
DPW PROJECT NO. BI-2B-760-B169

Compound		East 342960402-04	North -05	South -06	West -07	Bottom -08	Stockpile -09	Stockpile -10	Stockpile -11	Vent Trench 342960419-06	Supply Trench -07
Date		4/1/96	4/1/96	4/1/96	4/2/96	4/2/96	4/2/96	4/2/96	4/2/96	5/19/96	4/19/96
EPA Method 8010/8020		Only VOCs that were detected are listed.									
Toluene	ug/kg	3.0	8.6	ND	3.2	ND	ND	ND	ND	ND	ND
TPH - (Contest)	mg/kg	ND	BDL	ND	35.4	26.9	43.3	42.6	34.3	22.1	BDL
TPH - Petroflagg (F&O)	mg/kg	13	92	25	41	48	13	36	14	229	22

ND - Not Detected
NA - Not Analyzed
BDL - Below Detection Limit

MYSTIC ORAL SCHOOL

SOIL SAMPLE LOCATIONS

TANK E

FUSS & O'NEILL
MOBILE LABORATORY
ANALYSIS REPORT

PROJECT #: 91-272 M9
CLIENT: DPW - Mystic Oral School
SAMPLE I.D.: 342960401-04
MATRIX: SOIL

DATE RECEIVED: 04/01/96
DATE ANALYZED: 04/01/96
DATE REPORTED: 04/08/96

ANALYTE	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)	DATA QUALIFIER	COMMENTS/ CONFIRMATION
Total Petroleum Hydrocarbons	13	1		Tank E - East

ANALYSIS BY METHOD: PetroFLAGG™
INSTRUMENT: Dexsil Nephelometer

SAMPLE SIZE: 10 grams
ANALYST/REVIEWER: BCF

LABORATORY DIRECTOR
Kevin W. Miller

Note: PetroFLAGG™ is a screening method for determining Total Petroleum Hydrocarbons (TPH) in soil. In recent trials by the Dexsil Corporation the PetroFLAGG™ kit has provided rapid screening data that correlates well with U.S. EPA Methods 418.1 and 8015B. The Dexsil Corporation has made application to the U.S. EPA for approval of the screening method. However, until the method has been approved by the U.S. EPA or the CTDEP, results from this method should not be used to satisfy formal regulatory requirements.

FUSS & O'NEILL
MOBILE LABORATORY
ANALYSIS REPORT

PROJECT #: 91-272 M9
CLIENT: DPW - Mystic Oral School
SAMPLE I.D.: 342960401-05
MATRIX: SOIL

DATE RECEIVED: 04/01/96
DATE ANALYZED: 04/01/96
DATE REPORTED: 04/08/96

ANALYTE	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)	DATA QUALIFIER	COMMENTS/ CONFIRMATION
Total Petroleum Hydrocarbons	92	1		Tank E - North

ANALYSIS BY METHOD: PetroFLAGG™
INSTRUMENT: Dexsil Nephelometer

SAMPLE SIZE: 10 grams
ANALYST/REVIEWER: BCF

LABORATORY DIRECTOR
Kevin W. Miller

Note: PetroFLAGG™ is a screening method for determining Total Petroleum Hydrocarbons (TPH) in soil. In recent trials by the Dexsil Corporation the PetroFLAGG™ kit has provided rapid screening data that correlates well with U.S. EPA Methods 418.1 and 8015B. The Dexsil Corporation has made application to the U.S. EPA for approval of the screening method. However, until the method has been approved by the U.S. EPA or the CTDEP, results from this method should not be used to satisfy formal regulatory requirements.

FUSS & O'NEILL
MOBILE LABORATORY
ANALYSIS REPORT

PROJECT #: 91-272 M9
CLIENT: DPW - Mystic Oral School
SAMPLE I.D.: 342960401-06
MATRIX: SOIL

DATE RECEIVED: 04/01/96
DATE ANALYZED: 04/01/96
DATE REPORTED: 04/08/96

ANALYTE	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)	DATA QUALIFIER	COMMENTS/ CONFIRMATION
Total Petroleum Hydrocarbons	25	1		Tank E - South

ANALYSIS BY METHOD: PetroFLAGG™
INSTRUMENT: Dexsil Nephelometer

SAMPLE SIZE: 10 grams
ANALYST/REVIEWER: BCF

LABORATORY DIRECTOR
Kevin W. Miller

Note: PetroFLAGG™ is a screening method for determining Total Petroleum Hydrocarbons (TPH) in soil. In recent trials by the Dexsil Corporation the PetroFLAGG™ kit has provided rapid screening data that correlates well with U.S. EPA Methods 418.1 and 8015B. The Dexsil Corporation has made application to the U.S. EPA for approval of the screening method. However, until the method has been approved by the U.S. EPA or the CTDEP, results from this method should not be used to satisfy formal regulatory requirements.

FUSS & O'NEILL
MOBILE LABORATORY
ANALYSIS REPORT

PROJECT #: 91-272 M9
CLIENT: DPW - Mystic Oral School
SAMPLE I.D.: 342960402-07
MATRIX: SOIL

DATE RECEIVED: 04/02/96
DATE ANALYZED: 04/02/96
DATE REPORTED: 04/08/96

ANALYTE	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)	DATA QUALIFIER	COMMENTS/ CONFIRMATION
Total Petroleum Hydrocarbons	41	1		Tank E - West

ANALYSIS BY METHOD: PetroFLAGG™
INSTRUMENT: Dexsil Nephelometer

SAMPLE SIZE: 10 grams
ANALYST/REVIEWER: BCF

LABORATORY DIRECTOR
Kevin W. Miller

Note: PetroFLAGG™ is a screening method for determining Total Petroleum Hydrocarbons (TPH) in soil. In recent trials by the Dexsil Corporation the PetroFLAGG™ kit has provided rapid screening data that correlates well with U.S. EPA Methods 418.1 and 8015B. The Dexsil Corporation has made application to the U.S. EPA for approval of the screening method. However, until the method has been approved by the U.S. EPA or the CTDEP, results from this method should not be used to satisfy formal regulatory requirements.

FUSS & O'NEILL
MOBILE LABORATORY
ANALYSIS REPORT

PROJECT #: 91-272 M9
CLIENT: DPW - Mystic Oral School
SAMPLE I.D.: 342960402-08
MATRIX: SOIL

DATE RECEIVED: 04/02/96
DATE ANALYZED: 04/02/96
DATE REPORTED: 04/08/96

ANALYTE	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)	DATA QUALIFIER	COMMENTS/ CONFIRMATION
Total Petroleum Hydrocarbons	48	1		Tank E - Bottom

ANALYSIS BY METHOD: PetroFLAGG™
INSTRUMENT: Dexsil Nephelometer

SAMPLE SIZE: 10 grams
ANALYST/REVIEWER: BCF

LABORATORY DIRECTOR
Kevin W. Miller

Note: PetroFLAGG™ is a screening method for determining Total Petroleum Hydrocarbons (TPH) in soil. In recent trials by the Dexsil Corporation the PetroFLAGG™ kit has provided rapid screening data that correlates well with U.S. EPA Methods 418.1 and 8015B. The Dexsil Corporation has made application to the U.S. EPA for approval of the screening method. However, until the method has been approved by the U.S. EPA or the CTDEP, results from this method should not be used to satisfy formal regulatory requirements.

FUSS & O'NEILL
MOBILE LABORATORY
ANALYSIS REPORT

PROJECT #: 91-272 M9
CLIENT: DPW - Mystic Oral School
SAMPLE I.D.: 342960402-09
MATRIX: SOIL

DATE RECEIVED: 04/02/96
DATE ANALYZED: 04/02/96
DATE REPORTED: 04/08/96

ANALYTE	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)	DATA QUALIFIER	COMMENTS/ CONFIRMATION
Total Petroleum Hydrocarbons	13	1		Tank E - Stockpile

ANALYSIS BY METHOD: PetroFLAGG™
INSTRUMENT: Dexsil Nephelometer

SAMPLE SIZE: 10 grams
ANALYST/REVIEWER: BCF

LABORATORY DIRECTOR
Kevin W. Miller

Note: PetroFLAGG™ is a screening method for determining Total Petroleum Hydrocarbons (TPH) in soil. In recent trials by the Dexsil Corporation the PetroFLAGG™ kit has provided rapid screening data that correlates well with U.S. EPA Methods 418.1 and 8015B. The Dexsil Corporation has made application to the U.S. EPA for approval of the screening method. However, until the method has been approved by the U.S. EPA or the CTDEP, results from this method should not be used to satisfy formal regulatory requirements.

FUSS & O'NEILL
MOBILE LABORATORY
ANALYSIS REPORT

PROJECT #: 91-272 M9
CLIENT: DPW - Mystic Oral School
SAMPLE I.D.: 342960402-10
MATRIX: SOIL

DATE RECEIVED: 04/02/96
DATE ANALYZED: 04/02/96
DATE REPORTED: 04/08/96

ANALYTE	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)	DATA QUALIFIER	COMMENTS/ CONFIRMATION
Total Petroleum Hydrocarbons	36	1		Tank E - Stockpile

ANALYSIS BY METHOD: PetroFLAGG™
INSTRUMENT: Dexsil Nephelometer

SAMPLE SIZE: 10 grams
ANALYST/REVIEWER: BCF

LABORATORY DIRECTOR
Kevin W. Miller

Note: PetroFLAGG™ is a screening method for determining Total Petroleum Hydrocarbons (TPH) in soil. In recent trials by the Dexsil Corporation the PetroFLAGG™ kit has provided rapid screening data that correlates well with U.S. EPA Methods 418.1 and 8015B. The Dexsil Corporation has made application to the U.S. EPA for approval of the screening method. However, until the method has been approved by the U.S. EPA or the CTDEP, results from this method should not be used to satisfy formal regulatory requirements.

FUSS & O'NEILL
MOBILE LABORATORY
ANALYSIS REPORT

PROJECT #: 91-272 M9
CLIENT: DPW - Mystic Oral School
SAMPLE I.D.: 342960402-11
MATRIX: SOIL

DATE RECEIVED: 04/02/96
DATE ANALYZED: 04/02/96
DATE REPORTED: 04/08/96

ANALYTE	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)	DATA QUALIFIER	COMMENTS/ CONFIRMATION
Total Petroleum Hydrocarbons	14	1		Tank E - Stockpile

ANALYSIS BY METHOD: PetroFLAGG™
INSTRUMENT: Dexsil Nephelometer

SAMPLE SIZE: 10 grams
ANALYST/REVIEWER: BCF

LABORATORY DIRECTOR
Kevin W. Miller

Note: PetroFLAGG™ is a screening method for determining Total Petroleum Hydrocarbons (TPH) in soil. In recent trials by the Dexsil Corporation the PetroFLAGG™ kit has provided rapid screening data that correlates well with U.S. EPA Methods 418.1 and 8015B. The Dexsil Corporation has made application to the U.S. EPA for approval of the screening method. However, until the method has been approved by the U.S. EPA or the CTDEP, results from this method should not be used to satisfy formal regulatory requirements.

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CONNECTICUT DPW C/O FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CT 06040
ATTN: JEFF JAMES

REPORT DATE: 04/16/96

CONTRACT NUMBER: 934-A-12-1853-C
PURCHASE ORDER NUMBER: 176666/PROJ. # 91-272-M9
PROJECT NUMBER: 91-272-M9

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-23747
JOB NUMBER: 23747

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report

PROJECT LOCATION: CT DPW - MYSTIC ORAL SCHOOL

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
01				
342960402-04	96B06513	SOIL	TANK E - EAST	8010/8020 sol(2)
342960402-04	96B06513	SOIL	TANK E - EAST	8010/8020 solid
342960402-04	96B06513	SOIL	TANK E - EAST	tph (mg/kg)
342960402-05	96B06514	SOIL	TANK E - NORTH	8010/8020 sol(2)
342960402-05	96B06514	SOIL	TANK E - NORTH	8010/8020 solid
342960402-05	96B06514	SOIL	TANK E - NORTH	tph (mg/kg)
342960402-06	96B06515	SOIL	TANK E - SOUTH	8010/8020 sol(2)
342960402-06	96B06515	SOIL	TANK E - SOUTH	8010/8020 solid
[illegible]60402-06	96B06515	SOIL	TANK E - SOUTH	tph (mg/kg)
[illegible]60402-07	96B06516	SOIL	TANK E - WEST	8010/8020 sol(2)
342960402-07	96B06516	SOIL	TANK E - WEST	8010/8020 solid
342960402-07	96B06516	SOIL	TANK E - WEST	tph (mg/kg)
342960402-08	96B06517	SOIL	TANK E - BOTTOM	8010/8020 sol(2)
342960402-08	96B06517	SOIL	TANK E - BOTTOM	8010/8020 solid
342960402-08	96B06517	SOIL	TANK E - BOTTOM	tph (mg/kg)
342960402-09	96B06518	SOIL	TANK E - SP	8010/8020 sol(2)
342960402-09	96B06518	SOIL	TANK E - SP	8010/8020 solid
342960402-09	96B06518	SOIL	TANK E - SP	tph (mg/kg)
342960402-10	96B06519	SOIL	TANK E - SP	8010/8020 sol(2)
342960402-10	96B06519	SOIL	TANK E - SP	8010/8020 solid
342960402-10	96B06519	SOIL	TANK E - SP	tph (mg/kg)
342960402-11	96B06520	SOIL	TANK E - SP	8010/8020 sol(2)
342960402-11	96B06520	SOIL	TANK E - SP	8010/8020 solid
342960402-11	96B06520	SOIL	TANK E - SP	tph (mg/kg)

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CONNECTICUT DPW C/O FUSS & O'NEILL

REPORT DATE: 04/16/96

146 HARTFORD ROAD
MANCHESTER, CT 06040
ATTN: JEFF JAMES

CONTRACT NUMBER: 934-A-12-1853-C
PURCHASE ORDER NUMBER: 176666/PROJ. # 91-272-M9
PROJECT NUMBER: 91-272-M9

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-23747
JOB NUMBER: 23747

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

AIHA 308
MASSACHUSETTS MA100
CONNECTICUT PH-0567
NEW YORK ELAP 10899
PENNSYLVANIA DER 68-433
NEW HAMPSHIRE 2516
AIHA ELLAP (LEAD) 6838
MAINE (POTABLE/NON-POTABLE)
VERMONT DOH (LEAD) No. 15036
RHODE ISLAND (LIC. No. 112)
OHIO (ENVIRO. LEAD) # 10005

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document.

Edward Denson 4/16/96
SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Edward Denson
Technical Director

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JEFF JAMES
CONNECTICUT DPW C/O FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CT 06040

Contract Number:934-A-12-1853-C
Purchase Order Number: 176666/PROJ. # 91-272-M9
Project Number: 91-272-M9

04/16/96

Project Location: CT DPW - MYSTIC ORAL SCHOOL
Date Received: 04/08/96

LIMS-BAT #: LIMS-23747
Job Number: 23747
Sample Matrix: SOIL

Sampled: 04/02/96
TANK E - EAST
342960402-04
01

	Units	96B06513	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Benzene	ug/kg	ND	04/15/96	MFF	1.0		
Benzyl Chloride	ug/kg	ND	04/15/96	MFF	10.0		
Bromobenzene	ug/kg	ND	04/15/96	MFF	2.5		
Bromodichloromethane	ug/kg	ND	04/15/96	MFF	2.5		
Bromomethane	ug/kg	ND	04/15/96	MFF	2.5		
Bromoform	ug/kg	ND	04/15/96	MFF	2.5		
bon Tetrachloride	ug/kg	ND	04/15/96	MFF	2.5		
orobenzene	ug/kg	ND	04/15/96	MFF	2.5		
Chlorodibromomethane	ug/kg	ND	04/15/96	MFF	2.5		
Chloroethane	ug/kg	ND	04/15/96	MFF	2.5		
2-Chloroethylvinylether	ug/kg	ND	04/15/96	MFF	25.0		
Chloroform	ug/kg	ND	04/15/96	MFF	2.5		
Chloromethane	ug/kg	ND	04/15/96	MFF	2.5		
o-Chlorotoluene	ug/kg	ND	04/15/96	MFF	2.5		
1,2-Dichlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
1,3-Dichlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
1,4-Dichlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
Dichlorodifluoromethane	ug/kg	ND	04/15/96	MFF	2.5		
1,1-Dichloroethane	ug/kg	ND	04/15/96	MFF	2.5		
1,2-Dichloroethane	ug/kg	ND	04/15/96	MFF	1.0		
1,1-Dichloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
t-1,2-Dichloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
1,2-Dichloropropane	ug/kg	ND	04/15/96	MFF	2.5		
cis-1,3-Dichloropropene	ug/kg	ND	04/15/96	MFF	2.5		
t-1,3-Dichloropropene	ug/kg	ND	04/15/96	MFF	2.5		
Ethyl Benzene	ug/kg	ND	04/15/96	MFF	2.5		
Methyl tert-Butyl Ether (MTBE)	ug/kg	ND	04/15/96	MFF	2.5		
Methylene Chloride	ug/kg	ND	04/15/96	MFF	2.5		
1,1,1,2-Tetrachloroethane	ug/kg	ND	04/15/96	MFF	2.5		
1,1,2,2-Tetrachloroethane	ug/kg	ND	04/15/96	MFF	2.5		
Tetrachloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
Toluene	ug/kg	3.0	04/15/96	MFF	2.5		

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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LIMS-BAT #: LIMS-23747
Job Number: 23747
Sample Matrix: SOIL

Sampled: 04/02/96
TANK E - EAST
342960402-04
01

	Units	96B06513	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
1,1,1-Trichloroethane	ug/kg	ND	04/15/96	MFF	2.5		
1,1,2-Trichloroethane	ug/kg	ND	04/15/96	MFF	2.5		
Trichloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
Trichlorofluoromethane	ug/kg	ND	04/15/96	MFF	2.5		
1,2,3-Trichloropropane	ug/kg	ND	04/15/96	MFF	2.5		
Vinyl Chloride	ug/kg	ND	04/15/96	MFF	2.5		
Xylene	ug/kg	ND	04/15/96	MFF	5.0		
- ylene	ug/kg	ND	04/15/96	MFF	2.5		

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con-test ANALYTICAL LABORATORY

39 Spruce Street • 2nd Floor • East Longmeadow, MA 01028 • FAX 413/525-6405 • TEL 413/525-2332

LIMS-BAT #: LIMS-23747
Job Number: 23747
Sample Matrix: SOIL

Sampled: 04/02/96
TANK E - NORTH
342960402-05

	Units	96B06514	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Benzene	ug/kg	ND	04/15/96	MFF	1.0		
Benzyl Chloride	ug/kg	ND	04/15/96	MFF	10.0		
Bromobenzene	ug/kg	ND	04/15/96	MFF	2.5		
Bromodichloromethane	ug/kg	ND	04/15/96	MFF	2.5		
Bromomethane	ug/kg	ND	04/15/96	MFF	2.5		
Bromoform	ug/kg	ND	04/15/96	MFF	2.5		
bon Tetrachloride	ug/kg	ND	04/15/96	MFF	2.5		
Chlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
Chlorodibromomethane	ug/kg	ND	04/15/96	MFF	2.5		
Chloroethane	ug/kg	ND	04/15/96	MFF	2.5		
2-Chloroethylvinylether	ug/kg	ND	04/15/96	MFF	25.0		
Chloroform	ug/kg	ND	04/15/96	MFF	2.5		
Chloromethane	ug/kg	ND	04/15/96	MFF	2.5		
o-Chlorotoluene	ug/kg	ND	04/15/96	MFF	2.5		
1,2-Dichlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
1,3-Dichlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
1,4-Dichlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
Dichlorodifluoromethane	ug/kg	ND	04/15/96	MFF	2.5		
1,1-Dichloroethane	ug/kg	ND	04/15/96	MFF	2.5		
1,2-Dichloroethane	ug/kg	ND	04/15/96	MFF	1.0		
1,1-Dichloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
t-1,2-Dichloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
1,2-Dichloropropane	ug/kg	ND	04/15/96	MFF	2.5		
cis-1,3-Dichloropropene	ug/kg	ND	04/15/96	MFF	2.5		
t-1,3-Dichloropropene	ug/kg	ND	04/15/96	MFF	2.5		
Ethyl Benzene	ug/kg	ND	04/15/96	MFF	2.5		
Methyl tert-Butyl Ether (MTBE)	ug/kg	ND	04/15/96	MFF	2.5		
Methylene Chloride	ug/kg	ND	04/15/96	MFF	2.5		
1,1,1,2-Tetrachloroethane	ug/kg	ND	04/15/96	MFF	2.5		
1,1,2,2-Tetrachloroethane	ug/kg	ND	04/15/96	MFF	2.5		
Tetrachloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
Toluene	ug/kg	8.6	04/15/96	MFF	2.5		

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CON-TEST ANALYTICAL LABORATORY

39 Spruce Street • 2nd Floor • East Longmeadow, MA 01028 • FAX 413/525-6405 • TEL 413/525-2332

LIMS-BAT #: LIMS-23747
Job Number: 23747
Sample Matrix: SOIL

Sampled: 04/02/96
TANK E - NORTH
342960402-05

	Units	96B06514	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
1,1,1-Trichloroethane	ug/kg	ND	04/15/96	MFF	2.5		
1,1,2-Trichloroethane	ug/kg	ND	04/15/96	MFF	2.5		
Trichloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
Trichlorofluoromethane	ug/kg	ND	04/15/96	MFF	2.5		
1,2,3-Trichloropropane	ug/kg	ND	04/15/96	MFF	2.5		
Vinyl Chloride	ug/kg	ND	04/15/96	MFF	2.5		
m-Xylene	ug/kg	ND	04/15/96	MFF	5.0		
o-Xylene	ug/kg	ND	04/15/96	MFF	2.5		

MDL = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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LIMS-BAT #: LIMS-23747
Job Number: 23747
Sample Matrix: SOIL

Sampled: 04/02/96
TANK E - SOUTH
342960402-06
01

	Units	96B06515	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Benzene	ug/kg	ND	04/15/96	MFF	1.0		
Benzyl Chloride	ug/kg	ND	04/15/96	MFF	10.0		
Bromobenzene	ug/kg	ND	04/15/96	MFF	2.5		
Bromodichloromethane	ug/kg	ND	04/15/96	MFF	2.5		
Bromomethane	ug/kg	ND	04/15/96	MFF	2.5		
Bromoform	ug/kg	ND	04/15/96	MFF	2.5		
bon Tetrachloride	ug/kg	ND	04/15/96	MFF	2.5		
.orobenzene	ug/kg	ND	04/15/96	MFF	2.5		
Chlorodibromomethane	ug/kg	ND	04/15/96	MFF	2.5		
Chloroethane	ug/kg	ND	04/15/96	MFF	2.5		
2-Chloroethylvinylether	ug/kg	ND	04/15/96	MFF	25.0		
Chloroform	ug/kg	ND	04/15/96	MFF	2.5		
Chloromethane	ug/kg	ND	04/15/96	MFF	2.5		
o-Chlorotoluene	ug/kg	ND	04/15/96	MFF	2.5		
1,2-Dichlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
1,3-Dichlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
1,4-Dichlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
Dichlorodifluoromethane	ug/kg	ND	04/15/96	MFF	2.5		
1,1-Dichloroethane	ug/kg	ND	04/15/96	MFF	2.5		
1,2-Dichloroethane	ug/kg	ND	04/15/96	MFF	1.0		
1,1-Dichloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
t-1,2-Dichloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
1,2-Dichloropropane	ug/kg	ND	04/15/96	MFF	2.5		
cis-1,3-Dichloropropene	ug/kg	ND	04/15/96	MFF	2.5		
t-1,3-Dichloropropene	ug/kg	ND	04/15/96	MFF	2.5		
Ethyl Benzene	ug/kg	ND	04/15/96	MFF	2.5		
Methyl tert-Butyl Ether (MTBE)	ug/kg	ND	04/15/96	MFF	2.5		
Methylene Chloride	ug/kg	ND	04/15/96	MFF	2.5		
1,1,1,2-Tetrachloroethane	ug/kg	ND	04/15/96	MFF	2.5		
1,1,2,2-Tetrachloroethane	ug/kg	ND	04/15/96	MFF	2.5		
Tetrachloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
Toluene	ug/kg	ND	04/15/96	MFF	2.5		

MDL = Method Detection Limit
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BDL = Below Detection Limit
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SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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LIMS-BAT #: LIMS-23747
Job Number: 23747
Sample Matrix: SOIL

Sampled: 04/02/96
TANK E - SOUTH
342960402-06

	Units	96B06515	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
1,1,1-Trichloroethane	ug/kg	ND	04/15/96	MFF	2.5		
1,1,2-Trichloroethane	ug/kg	ND	04/15/96	MFF	2.5		
Trichloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
Trichlorofluoromethane	ug/kg	ND	04/15/96	MFF	2.5		
1,2,3-Trichloropropane	ug/kg	ND	04/15/96	MFF	2.5		
Vinyl Chloride	ug/kg	ND	04/15/96	MFF	2.5		
-Xylene	ug/kg	ND	04/15/96	MFF	5.0		
ylene	ug/kg	ND	04/15/96	MFF	2.5		

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NM = Not Measured

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LIMS-BAT #: LIMS-23747
Job Number: 23747
Sample Matrix: SOIL

Sampled: 04/02/96
TANK E - WEST
342960402-07

	Units	96B06516	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Benzene	ug/kg	ND	04/15/96	MFF	1.0		
Benzyl Chloride	ug/kg	ND	04/15/96	MFF	10.0		
Bromobenzene	ug/kg	ND	04/15/96	MFF	2.5		
Bromodichloromethane	ug/kg	ND	04/15/96	MFF	2.5		
Bromomethane	ug/kg	ND	04/15/96	MFF	2.5		
Bromoform	ug/kg	ND	04/15/96	MFF	2.5		
bon Tetrachloride	ug/kg	ND	04/15/96	MFF	2.5		
.orobenzene	ug/kg	ND	04/15/96	MFF	2.5		
Chlorodibromomethane	ug/kg	ND	04/15/96	MFF	2.5		
Chloroethane	ug/kg	ND	04/15/96	MFF	2.5		
2-Chloroethylvinylether	ug/kg	ND	04/15/96	MFF	25.0		
Chloroform	ug/kg	ND	04/15/96	MFF	2.5		
Chloromethane	ug/kg	ND	04/15/96	MFF	2.5		
o-Chlorotoluene	ug/kg	ND	04/15/96	MFF	2.5		
1,2-Dichlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
1,3-Dichlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
1,4-Dichlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
Dichlorodifluoromethane	ug/kg	ND	04/15/96	MFF	2.5		
1,1-Dichloroethane	ug/kg	ND	04/15/96	MFF	2.5		
1,2-Dichloroethane	ug/kg	ND	04/15/96	MFF	1.0		
1,1-Dichloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
t-1,2-Dichloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
1,2-Dichloropropane	ug/kg	ND	04/15/96	MFF	2.5		
cis-1,3-Dichloropropene	ug/kg	ND	04/15/96	MFF	2.5		
t-1,3-Dichloropropene	ug/kg	ND	04/15/96	MFF	2.5		
Ethyl Benzene	ug/kg	ND	04/15/96	MFF	2.5		
Methyl tert-Butyl Ether (MTBE)	ug/kg	ND	04/15/96	MFF	2.5		
Methylene Chloride	ug/kg	ND	04/15/96	MFF	2.5		
1,1,1,2-Tetrachloroethane	ug/kg	ND	04/15/96	MFF	2.5		
1,1,2,2-Tetrachloroethane	ug/kg	ND	04/15/96	MFF	2.5		
Tetrachloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
Toluene	ug/kg	3.2	04/15/96	MFF	2.5		

. . = Method Detection Limit
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LIMS-BAT #: LIMS-23747
Job Number: 23747
Sample Matrix: SOIL

Sampled: 04/02/96
TANK E - WEST
342960402-07

	Units	96B06516	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
1,1,1-Trichloroethane	ug/kg	ND	04/15/96	MFF	2.5		
1,1,2-Trichloroethane	ug/kg	ND	04/15/96	MFF	2.5		
Trichloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
Trichlorofluoromethane	ug/kg	ND	04/15/96	MFF	2.5		
1,2,3-Trichloropropane	ug/kg	ND	04/15/96	MFF	2.5		
Vinyl Chloride	ug/kg	ND	04/15/96	MFF	2.5		
[illegible]-Xylene	ug/kg	ND	04/15/96	MFF	5.0		
[illegible]lene	ug/kg	ND	04/15/96	MFF	2.5		

[illegible] = Method Detection Limit
ND = Not Detected
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NM = Not Measured

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LIMS-BAT #: LIMS-23747
Job Number: 23747
Sample Matrix: SOIL

Sampled: 04/02/96
TANK E - BOTTOM
342960402-08

	Units	96B06517	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Benzene	ug/kg	ND	04/15/96	MFF	1.0		
Benzyl Chloride	ug/kg	ND	04/15/96	MFF	10.0		
Bromobenzene	ug/kg	ND	04/15/96	MFF	2.5		
Bromodichloromethane	ug/kg	ND	04/15/96	MFF	2.5		
Bromomethane	ug/kg	ND	04/15/96	MFF	2.5		
Bromoform	ug/kg	ND	04/15/96	MFF	2.5		
Carbon Tetrachloride	ug/kg	ND	04/15/96	MFF	2.5		
Chlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
Chlorodibromomethane	ug/kg	ND	04/15/96	MFF	2.5		
Chloroethane	ug/kg	ND	04/15/96	MFF	2.5		
2-Chloroethylvinylether	ug/kg	ND	04/15/96	MFF	25.0		
Chloroform	ug/kg	ND	04/15/96	MFF	2.5		
Chloromethane	ug/kg	ND	04/15/96	MFF	2.5		
o-Chlorotoluene	ug/kg	ND	04/15/96	MFF	2.5		
1,2-Dichlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
1,3-Dichlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
1,4-Dichlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
Dichlorodifluoromethane	ug/kg	ND	04/15/96	MFF	2.5		
1,1-Dichloroethane	ug/kg	ND	04/15/96	MFF	2.5		
1,2-Dichloroethane	ug/kg	ND	04/15/96	MFF	1.0		
1,1-Dichloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
t-1,2-Dichloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
1,2-Dichloropropane	ug/kg	ND	04/15/96	MFF	2.5		
cis-1,3-Dichloropropene	ug/kg	ND	04/15/96	MFF	2.5		
t-1,3-Dichloropropene	ug/kg	ND	04/15/96	MFF	2.5		
Ethyl Benzene	ug/kg	ND	04/15/96	MFF	2.5		
Methyl tert-Butyl Ether (MTBE)	ug/kg	ND	04/15/96	MFF	2.5		
Methylene Chloride	ug/kg	ND	04/15/96	MFF	2.5		
1,1,1,2-Tetrachloroethane	ug/kg	ND	04/15/96	MFF	2.5		
1,1,2,2-Tetrachloroethane	ug/kg	ND	04/15/96	MFF	2.5		
Tetrachloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
Toluene	ug/kg	ND	04/15/96	MFF	2.5		

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LIMS-BAT #: LIMS-23747
Job Number: 23747
Sample Matrix: SOIL

Sampled: 04/02/96
TANK E - BOTTOM
342960402-08

	Units	96B06517	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
1,1,1-Trichloroethane	ug/kg	ND	04/15/96	MFF	2.5		
1,1,2-Trichloroethane	ug/kg	ND	04/15/96	MFF	2.5		
Trichloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
Trichlorofluoromethane	ug/kg	ND	04/15/96	MFF	2.5		
1,2,3-Trichloropropane	ug/kg	ND	04/15/96	MFF	2.5		
Vinyl Chloride	ug/kg	ND	04/15/96	MFF	2.5		
m,p-Xylene	ug/kg	ND	04/15/96	MFF	5.0		
o-Xylene	ug/kg	ND	04/15/96	MFF	2.5		

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ENVIRONMENTAL CONSULTING-TESTING

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LIMS-BAT #: LIMS-23747
Job Number: 23747
Sample Matrix: SOIL

Sampled: 04/02/96
TANK E - SP
342960402-09

	Units	96806518	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Benzene	ug/kg	ND	04/15/96	MFF	1.0		
Benzyl Chloride	ug/kg	ND	04/15/96	MFF	10.0		
Bromobenzene	ug/kg	ND	04/15/96	MFF	2.5		
Bromodichloromethane	ug/kg	ND	04/15/96	MFF	2.5		
Bromomethane	ug/kg	ND	04/15/96	MFF	2.5		
Bromoform	ug/kg	ND	04/15/96	MFF	2.5		
Carbon Tetrachloride	ug/kg	ND	04/15/96	MFF	2.5		
Chlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
Chlorodibromomethane	ug/kg	ND	04/15/96	MFF	2.5		
Chloroethane	ug/kg	ND	04/15/96	MFF	2.5		
2-Chloroethylvinylether	ug/kg	ND	04/15/96	MFF	25.0		
Chloroform	ug/kg	ND	04/15/96	MFF	2.5		
Chloromethane	ug/kg	ND	04/15/96	MFF	2.5		
o-Chlorotoluene	ug/kg	ND	04/15/96	MFF	2.5		
1,2-Dichlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
1,3-Dichlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
1,4-Dichlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
Dichlorodifluoromethane	ug/kg	ND	04/15/96	MFF	2.5		
1,1-Dichloroethane	ug/kg	ND	04/15/96	MFF	2.5		
1,2-Dichloroethane	ug/kg	ND	04/15/96	MFF	1.0		
1,1-Dichloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
t-1,2-Dichloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
1,2-Dichloropropane	ug/kg	ND	04/15/96	MFF	2.5		
cis-1,3-Dichloropropene	ug/kg	ND	04/15/96	MFF	2.5		
t-1,3-Dichloropropene	ug/kg	ND	04/15/96	MFF	2.5		
Ethyl Benzene	ug/kg	ND	04/15/96	MFF	2.5		
Methyl tert-Butyl Ether (MTBE)	ug/kg	ND	04/15/96	MFF	2.5		
Methylene Chloride	ug/kg	ND	04/15/96	MFF	2.5		
1,1,1,2-Tetrachloroethane	ug/kg	ND	04/15/96	MFF	2.5		
1,1,2,2-Tetrachloroethane	ug/kg	ND	04/15/96	MFF	2.5		
Tetrachloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
Toluene	ug/kg	ND	04/15/96	MFF	2.5		

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LIMS-BAT #: LIMS-23747
Job Number: 23747
Sample Matrix: SOIL

Sampled: 04/02/96
TANK E - SP
342960402-09

	Units	96B06518	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
1,1,1-Trichloroethane	ug/kg	ND	04/15/96	MFF	2.5		
1,1,2-Trichloroethane	ug/kg	ND	04/15/96	MFF	2.5		
Trichloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
Trichlorofluoromethane	ug/kg	ND	04/15/96	MFF	2.5		
1,2,3-Trichloropropane	ug/kg	ND	04/15/96	MFF	2.5		
Vinyl Chloride	ug/kg	ND	04/15/96	MFF	2.5		
[illegible]-Xylene	ug/kg	ND	04/15/96	MFF	5.0		
[illegible]lene	ug/kg	ND	04/15/96	MFF	2.5		

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LIMS-BAT #: LIMS-23747
Job Number: 23747
Sample Matrix: SOIL

Sampled: 04/02/96
TANK E - SP
342960402-10

	Units	96B06519	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Benzene	ug/kg	ND	04/15/96	MFF	1.0		
Benzyl Chloride	ug/kg	ND	04/15/96	MFF	10.0		
Bromobenzene	ug/kg	ND	04/15/96	MFF	2.5		
Bromodichloromethane	ug/kg	ND	04/15/96	MFF	2.5		
Bromomethane	ug/kg	ND	04/15/96	MFF	2.5		
Bromoform	ug/kg	ND	04/15/96	MFF	2.5		
Carbon Tetrachloride	ug/kg	ND	04/15/96	MFF	2.5		
Chlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
Chlorodibromomethane	ug/kg	ND	04/15/96	MFF	2.5		
Chloroethane	ug/kg	ND	04/15/96	MFF	2.5		
2-Chloroethylvinylether	ug/kg	ND	04/15/96	MFF	25.0		
Chloroform	ug/kg	ND	04/15/96	MFF	2.5		
Chloromethane	ug/kg	ND	04/15/96	MFF	2.5		
o-Chlorotoluene	ug/kg	ND	04/15/96	MFF	2.5		
1,2-Dichlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
1,3-Dichlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
1,4-Dichlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
Dichlorodifluoromethane	ug/kg	ND	04/15/96	MFF	2.5		
1,1-Dichloroethane	ug/kg	ND	04/15/96	MFF	2.5		
1,2-Dichloroethane	ug/kg	ND	04/15/96	MFF	1.0		
1,1-Dichloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
t-1,2-Dichloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
1,2-Dichloropropane	ug/kg	ND	04/15/96	MFF	2.5		
cis-1,3-Dichloropropene	ug/kg	ND	04/15/96	MFF	2.5		
t-1,3-Dichloropropene	ug/kg	ND	04/15/96	MFF	2.5		
Ethyl Benzene	ug/kg	ND	04/15/96	MFF	2.5		
Methyl tert-Butyl Ether (MTBE)	ug/kg	ND	04/15/96	MFF	2.5		
Methylene Chloride	ug/kg	ND	04/15/96	MFF	2.5		
1,1,1,2-Tetrachloroethane	ug/kg	ND	04/15/96	MFF	2.5		
1,1,2,2-Tetrachloroethane	ug/kg	ND	04/15/96	MFF	2.5		
Tetrachloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
Toluene	ug/kg	ND	04/15/96	MFF	2.5		

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ENVIRONMENTAL CONSULTING-TESTING

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LIMS-BAT #: LIMS-23747
Job Number: 23747
Sample Matrix: SOIL

Sampled: 04/02/96
TANK E - SP
342960402-10

	Units	96B06519	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
1,1,1-Trichloroethane	ug/kg	ND	04/15/96	MFF	2.5		
1,1,2-Trichloroethane	ug/kg	ND	04/15/96	MFF	2.5		
Trichloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
Trichlorofluoromethane	ug/kg	ND	04/15/96	MFF	2.5		
1,2,3-Trichloropropane	ug/kg	ND	04/15/96	MFF	2.5		
Vinyl Chloride	ug/kg	ND	04/15/96	MFF	2.5		
p²m-Xylene	ug/kg	ND	04/15/96	MFF	5.0		
lene	ug/kg	ND	04/15/96	MFF	2.5		

: Method Detection Limit
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BDL = Below Detection Limit
NM = Not Measured

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LIMS-BAT #: LIMS-23747
Job Number: 23747
Sample Matrix: SOIL

Sampled: 04/02/96
TANK E - SP
342960402-11

	Units	96B06520	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Benzene	ug/kg	ND	04/15/96	MFF	1.0		
Benzyl Chloride	ug/kg	ND	04/15/96	MFF	10.0		
Bromobenzene	ug/kg	ND	04/15/96	MFF	2.5		
Bromodichloromethane	ug/kg	ND	04/15/96	MFF	2.5		
Bromomethane	ug/kg	ND	04/15/96	MFF	2.5		
Bromoform	ug/kg	ND	04/15/96	MFF	2.5		
C[illegible]n Tetrachloride	ug/kg	ND	04/15/96	MFF	2.5		
C[illegible]obenzene	ug/kg	ND	04/15/96	MFF	2.5		
Chlorodibromomethane	ug/kg	ND	04/15/96	MFF	2.5		
Chloroethane	ug/kg	ND	04/15/96	MFF	2.5		
2-Chloroethylvinylether	ug/kg	ND	04/15/96	MFF	25.0		
Chloroform	ug/kg	ND	04/15/96	MFF	2.5		
Chloromethane	ug/kg	ND	04/15/96	MFF	2.5		
o-Chlorotoluene	ug/kg	ND	04/15/96	MFF	2.5		
1,2-Dichlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
1,3-Dichlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
1,4-Dichlorobenzene	ug/kg	ND	04/15/96	MFF	2.5		
Dichlorodifluoromethane	ug/kg	ND	04/15/96	MFF	2.5		
1,1-Dichloroethane	ug/kg	ND	04/15/96	MFF	2.5		
1,2-Dichloroethane	ug/kg	ND	04/15/96	MFF	1.0		
1,1-Dichloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
t-1,2-Dichloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
1,2-Dichloropropane	ug/kg	ND	04/15/96	MFF	2.5		
cis-1,3-Dichloropropene	ug/kg	ND	04/15/96	MFF	2.5		
t-1,3-Dichloropropene	ug/kg	ND	04/15/96	MFF	2.5		
Ethyl Benzene	ug/kg	ND	04/15/96	MFF	2.5		
Methyl tert-Butyl Ether (MTBE)	ug/kg	ND	04/15/96	MFF	2.5		
Methylene Chloride	ug/kg	ND	04/15/96	MFF	2.5		
1,1,1,2-Tetrachloroethane	ug/kg	ND	04/15/96	MFF	2.5		
1,1,2,2-Tetrachloroethane	ug/kg	ND	04/15/96	MFF	2.5		
Tetrachloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
Toluene	ug/kg	ND	04/15/96	MFF	2.5		

MDL - Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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ENVIRONMENTAL CONSULTING-TESTING

LIMS-BAT #: LIMS-23747
Job Number: 23747
Sample Matrix: SOIL

Sampled: 04/02/96
TANK E - SP
342960402-11

	Units	96B06520	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
1,1,1-Trichloroethane	ug/kg	ND	04/15/96	MFF	2.5		
1,1,2-Trichloroethane	ug/kg	ND	04/15/96	MFF	2.5		
Trichloroethylene	ug/kg	ND	04/15/96	MFF	2.5		
Trichlorofluoromethane	ug/kg	ND	04/15/96	MFF	2.5		
1,2,3-Trichloropropane	ug/kg	ND	04/15/96	MFF	2.5		
Vinyl Chloride	ug/kg	ND	04/15/96	MFF	2.5		
p[illegible]-Xylene	ug/kg	ND	04/15/96	MFF	5.0		
[illegible]ene	ug/kg	ND	04/15/96	MFF	2.5		

Analytical Method(s):

SW846 8010/8020

PURGE AND TRAP CONCENTRATION WITH QUANTITATION BY GAS CHROMATOGRAPHY WITH PID/ELCD.

ML Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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ENVIRONMENTAL CONSULTING—TESTING

LIMS-BAT #: LIMS-23747
Job Number: 23747
Sample Matrix: SOIL

Sampled: 04/02/96
TANK E - EAST
342960402-04

	Units	96B06513	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	ND	04/10/96	SAM	19.6		

Sampled: 04/02/96
TANK E - NORTH
342960402-05

	Units	96B06514	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	BDL	04/10/96	SAM	20.2		

Sampled: 04/02/96
TANK E - SOUTH
342960402-06

	Units	96B06515	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	ND	04/10/96	SAM	19.9		

Sampled: 04/02/96
TANK E - WEST
342960402-07

	Units	96B06516	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	35.4	04/10/96	SAM	20.0		

) = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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04/16/96
page 18 of 19

LIMS-BAT #: LIMS-23747
Job Number: 23747
Sample Matrix: SOIL

Sampled: 04/02/96
TANK E - BOTTOM
342960402-08

	Units	96B06517	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	26.9	04/10/96	SAM	20.0		

Sampled: 04/02/96
TANK E - SP
342960402-09

	Units	96B06518	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	43.3	04/10/96	SAM	20.4		

Sampled: 04/02/96
TANK E - SP
342960402-10

	Units	96B06519	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	42.6	04/10/96	SAM	19.6		

Sampled: 04/02/96
TANK E - SP
342960402-11

	Units	96B06520	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	34.3	04/10/96	SAM	20.2		

M = Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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ENVIRONMENTAL CONSULTING-TESTING

Analytical Method(s):

MODIFIED EPA 418.1

INFRA-RED DETERMINATION FOLLOWING EXTRACTION OF HYDROCARBONS INTO
1 1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)

= Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

LMS-2574-F

Fuss & O'Neill Inc.
consulting engineers
Environmental Field Services

CHAIN-OF-CUSTODY RECORD № 029221

FUSS & O'NEILL, INC.
146 HARTFORD ROAD
MANCHESTER, CT 06040
(203) 646-2469

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
CT DPW	MYSTIC ORAL SCHOOL	91-272M9	CONTEST

REPORT TO: JEFF JAMES
INVOICE TO: CT DPW
P. O. #:

Source Codes: MW=Monitor Well, RO=Run Off, T=Treatment Facility, X= Other, Specify; B=Bottom Sediment, O=Outfall, S=Soil, W=Well; L=Lake/Pond/Ocean, PW=Potable Water, SG=Sludge; LF=Landfill, R=River/Stream, ST=Septic Tank

ITEM NUMBER	SAMPLE NUMBER	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERV.	ANALYSIS REQUIRED	COMMENTS	TRANSFER NUMBER & CHECK 1	2	3	4
1	3929604 01 - 04	S	2	G	802	I	8010/8020/MTBE 96B06513 TPH	TANK E - EAST	✓	✓	✓	✓
2	01 - 05	↓	↓	↓	↓	↓	↓ 06514	↓ - NORTH	✓	✓	✓	✓
3	01 - 06						06515	- SOUTH	✓	✓	✓	✓
4	02 - 07						06516	- WEST	✓	✓	✓	✓
5	02 - 08						06517	- BOTTOM	✓	✓	✓	✓
6	02 - 09						06518	- SP	✓	✓	✓	✓
7	02 - 10						06519	- SP	✓	✓	✓	✓
8	02 - 11	↓	↓	↓	↓	↓	↓ 06520	↓ - SP	✓	✓	✓	✓

Container Code: P=Plastic V=VOA Vial C=Cube G=Glass A=Amber Glass T=Teflon Lid B=Bacteria Bottle

Preservative Code: I=Iced F=Filtered N=Nitric Acid [HNO_3] H=Hydrochloric Acid [HCl] S=Sodium Hydroxide [NaOH] T=Sodium Thiosulfate [$Na_2S_2O_3$] B=Sodium Bisulfate [$NaHSO_4$] O=Sulfuric Acid [H_2SO_4] A=Ascorbic Acid [$C_6H_8O_6$] X=Other, Specify

Sampler's Signature	Affiliation	Date	Time
Bradford Freeman	F+O	4/2/96	

ADDITIONAL COMMENTS:

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
1	1-8	B. Freeman	F+O FRIDGE	4/2/96	1715
2	1-8	F+O Fridge	John Cole	4/8/96	1350
3	1-8	John Cole	Don Schneier	4/8/96	1350
4	1-8	Don Schneier	Edward Denson	4/8/96	1440

F&O 500

Apr 17 '96 8:26 P.28

FUSS & O'NEILL ·
MOBILE LABORATORY
ANALYSIS REPORT

PROJECT #: 91-272 M9
CLIENT: DPW - Mystic Oral School
SAMPLE I.D.: 342960419-06
MATRIX: SOIL

DATE RECEIVED: 04/19/96
DATE ANALYZED: 04/22/96
DATE REPORTED: 04/23/96

ANALYTE	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)	DATA QUALIFIER	COMMENTS/ CONFIRMATION
Total Petroleum Hydrocarbons	229	1		Vent Trench

ANALYSIS BY METHOD: PetroFLAGG™
INSTRUMENT: Dexsil Nephelometer

SAMPLE SIZE: 10 grams
ANALYST/REVIEWER: BCF

LABORATORY DIRECTOR
Kevin W. Miller

Note: PetroFLAGG™ is a screening method for determining Total Petroleum Hydrocarbons (TPH) in soil. In recent trials by the Dexsil Corporation the PetroFLAGG™ kit has provided rapid screening data that correlates well with U.S. EPA Methods 418.1 and 8015B. The Dexsil Corporation has made application to the U.S. EPA for approval of the screening method. However, until the method has been approved by the U.S. EPA or the CTDEP, results from this method should not be used to satisfy formal regulatory requirements.

91272\M9\MLAB0496.WP

FUSS & O'NEILL
MOBILE LABORATORY
ANALYSIS REPORT

PROJECT #: 91-272 M9
CLIENT: DPW - Mystic Oral School
SAMPLE I.D.: 342960419-07
MATRIX: SOIL

DATE RECEIVED: 04/19/96
DATE ANALYZED: 04/22/96
DATE REPORTED: 04/23/96

ANALYTE	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)	DATA QUALIFIER	COMMENTS/ CONFIRMATION
Total Petroleum Hydrocarbons	22	1		SUP/Ret. Trench

ANALYSIS BY METHOD: PetroFLAGG™
INSTRUMENT: Dexsil Nephelometer

SAMPLE SIZE: 10 grams
ANALYST/REVIEWER: BCF

LABORATORY DIRECTOR
Kevin W. Miller

Note: PetroFLAGG™ is a screening method for determining Total Petroleum Hydrocarbons (TPH) in soil. In recent trials by the Dexsil Corporation the PetroFLAGG™ kit has provided rapid screening data that correlates well with U.S. EPA Methods 418.1 and 8015B. The Dexsil Corporation has made application to the U.S. EPA for approval of the screening method. However, until the method has been approved by the U.S. EPA or the CTDEP, results from this method should not be used to satisfy formal regulatory requirements.

91272\M9\MLAB0496.WP

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ANALYTICAL LABORATORY

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CONNECTICUT DPW C/O FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CT 06040
ATTN: RICK LARDIE

REPORT DATE: 04/26/96

CONTRACT NUMBER: 934-A-12-1853-C
PURCHASE ORDER NUMBER: 176666/91-272

ANALYTICAL SUMMARY

LIMS BAT #: LIMS-23889
JOB NUMBER: 23889

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report

PROJECT LOCATION: DPW, MYSTIC ORAL SCHOOL

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
342960419-06	96B07042	SOIL	VENT TRENCH	8010/8020 sol(2)
342960419-06	96B07042	SOIL	VENT TRENCH	8010/8020 solid
342960419-06	96B07042	SOIL	VENT TRENCH	tph (mg/kg)
342960419-07	96B07043	SOIL	SUP/RET TRENCH	8010/8020 sol(2)
342960419-07	96B07043	SOIL	SUP/RET TRENCH	8010/8020 solid
342960419-07	96B07043	SOIL	SUP/RET TRENCH	tph (mg/kg)

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

AIHA 308
MASSACHUSETTS MA100
CONNECTICUT PH-0567
NEW YORK ELAP 10899
PENNSYLVANIA DER 68-433
NEW HAMPSHIRE 2516
AIHA ELLAP (LEAD) 6838
MAINE (POTABLE/NON-POTABLE)
VERMONT DOH (LEAD) No. 15036
RHODE ISLAND (LIC. No. 112)
OHIO (ENVIRO. LEAD) # 10005

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document.

Edward Denson 4/26/96
SIGNATURE DATE

Tod Kopyscinski
Director of Operations

Edward Denson
Technical Director

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ANALYTICAL LABORATORY

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.CK LARDIE
CONNECTICUT DPW C/O FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CT 06040

Contract Number:934-A-12-1853-C
Purchase Order Number: 176666/91-272

04/26/96

Project Location: DPW, MYSTIC ORAL SCHOOL
Date Received: 04/22/96

LIMS-BAT #: LIMS-23889
Job Number: 23889
Sample Matrix: SOIL

Sampled: 04/19/96
VENT TRENCH
342960419-06

	Units	96B07042	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Benzene	ug/kg	ND	04/24/96	MFF	1.0		
Benzyl Chloride	ug/kg	ND	04/24/96	MFF	10.0		
Bromobenzene	ug/kg	ND	04/24/96	MFF	2.5		
Bromodichloromethane	ug/kg	ND	04/24/96	MFF	2.5		
Bromomethane	ug/kg	ND	04/24/96	MFF	2.5		
Bromoform	ug/kg	ND	04/24/96	MFF	2.5		
Carbon Tetrachloride	ug/kg	ND	04/24/96	MFF	2.5		
Chlorobenzene	ug/kg	ND	04/24/96	MFF	2.5		
.orodibromomethane	ug/kg	ND	04/24/96	MFF	2.5		
Chloroethane	ug/kg	ND	04/24/96	MFF	2.5		
2-Chloroethylvinylether	ug/kg	ND	04/24/96	MFF	25.0		
Chloroform	ug/kg	ND	04/24/96	MFF	2.5		
Chloromethane	ug/kg	ND	04/24/96	MFF	2.5		
o-Chlorotoluene	ug/kg	ND	04/24/96	MFF	2.5		
1,2-Dichlorobenzene	ug/kg	ND	04/24/96	MFF	2.5		
1,3-Dichlorobenzene	ug/kg	ND	04/24/96	MFF	2.5		
1,4-Dichlorobenzene	ug/kg	ND	04/24/96	MFF	2.5		
Dichlorodifluoromethane	ug/kg	ND	04/24/96	MFF	2.5		
1,1-Dichloroethane	ug/kg	ND	04/24/96	MFF	2.5		
1,2-Dichloroethane	ug/kg	ND	04/24/96	MFF	1.0		
1,1-Dichloroethylene	ug/kg	ND	04/24/96	MFF	2.5		
t-1,2-Dichloroethylene	ug/kg	ND	04/24/96	MFF	2.5		
1,2-Dichloropropane	ug/kg	ND	04/24/96	MFF	2.5		
cis-1,3-Dichloropropene	ug/kg	ND	04/24/96	MFF	2.5		
t-1,3-Dichloropropene	ug/kg	ND	04/24/96	MFF	2.5		
Ethyl Benzene	ug/kg	ND	04/24/96	MFF	2.5		
Methyl tert-Butyl Ether (MTBE)	ug/kg	ND	04/24/96	MFF	2.5		
Methylene Chloride	ug/kg	ND	04/24/96	MFF	2.5		
1,1,1,2-Tetrachloroethane	ug/kg	ND	04/24/96	MFF	2.5		
1,1,2,2-Tetrachloroethane	ug/kg	ND	04/24/96	MFF	2.5		
Tetrachloroethylene	ug/kg	ND	04/24/96	MFF	2.5		
Toluene	ug/kg	ND	04/24/96	MFF	2.5		

' = Method Detection Limit
· Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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39 Spruce Street • 2nd Floor • East Longmeadow MA 01028 • FAX 413/525-6405 • TEL 413/525-2332

LIMS-BAT #: LIMS-23889
Job Number: 23889
Sample Matrix: SOIL

Sampled: 04/19/96
VENT TRENCH
342960419-06

	Units	96B07042	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
1,1,1-Trichloroethane	ug/kg	ND	04/24/96	MFF	2.5		
1,1,2-Trichloroethane	ug/kg	ND	04/24/96	MFF	2.5		
Trichloroethylene	ug/kg	ND	04/24/96	MFF	2.5		
Trichlorofluoromethane	ug/kg	ND	04/24/96	MFF	2.5		
1,2,3-Trichloropropane	ug/kg	ND	04/24/96	MFF	2.5		
Vinyl Chloride	ug/kg	ND	04/24/96	MFF	2.5		
p&m-Xylene	ug/kg	ND	04/24/96	MFF	5.0		
Xylene	ug/kg	ND	04/24/96	MFF	2.5		

= Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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LIMS-BAT #: LIMS-23889
Job Number: 23889
Sample Matrix: SOIL

Sampled: 04/19/96
SUP/RET TRENCH
342960419-07

	Units	96807043	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Benzene	ug/kg	ND	04/24/96	MFF	1.0		
Benzyl Chloride	ug/kg	ND	04/24/96	MFF	10.0		
Bromobenzene	ug/kg	ND	04/24/96	MFF	2.5		
Bromodichloromethane	ug/kg	ND	04/24/96	MFF	2.5		
Bromomethane	ug/kg	ND	04/24/96	MFF	2.5		
Bromoform	ug/kg	ND	04/24/96	MFF	2.5		
Carbon Tetrachloride	ug/kg	ND	04/24/96	MFF	2.5		
lorobenzene	ug/kg	ND	04/24/96	MFF	2.5		
ılorodibromomethane	ug/kg	ND	04/24/96	MFF	2.5		
Chloroethane	ug/kg	ND	04/24/96	MFF	2.5		
2-Chloroethylvinylether	ug/kg	ND	04/24/96	MFF	25.0		
Chloroform	ug/kg	ND	04/24/96	MFF	2.5		
Chloromethane	ug/kg	ND	04/24/96	MFF	2.5		
o-Chlorotoluene	ug/kg	ND	04/24/96	MFF	2.5		
1,2-Dichlorobenzene	ug/kg	ND	04/24/96	MFF	2.5		
1,3-Dichlorobenzene	ug/kg	ND	04/24/96	MFF	2.5		
1,4-Dichlorobenzene	ug/kg	ND	04/24/96	MFF	2.5		
Dichlorodifluoromethane	ug/kg	ND	04/24/96	MFF	2.5		
1,1-Dichloroethane	ug/kg	ND	04/24/96	MFF	2.5		
1,2-Dichloroethane	ug/kg	ND	04/24/96	MFF	2.5		
1,1-Dichloroethylene	ug/kg	ND	04/24/96	MFF	1.0		
t-1,2-Dichloroethylene	ug/kg	ND	04/24/96	MFF	2.5		
1,2-Dichloropropane	ug/kg	ND	04/24/96	MFF	2.5		
cis-1,3-Dichloropropene	ug/kg	ND	04/24/96	MFF	2.5		
t-1,3-Dichloropropene	ug/kg	ND	04/24/96	MFF	2.5		
Ethyl Benzene	ug/kg	ND	04/24/96	MFF	2.5		
Methyl tert-Butyl Ether (MTBE)	ug/kg	ND	04/24/96	MFF	2.5		
Methylene Chloride	ug/kg	ND	04/24/96	MFF	2.5		
1,1,1,2-Tetrachloroethane	ug/kg	ND	04/24/96	MFF	2.5		
1,1,2,2-Tetrachloroethane	ug/kg	ND	04/24/96	MFF	2.5		
Tetrachloroethylene	ug/kg	ND	04/24/96	MFF	2.5		
Toluene	ug/kg	ND	04/24/96	MFF	2.5		

= Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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LIMS-BAT #: LIMS-23889
Job Number: 23889
Sample Matrix: SOIL

Sampled: 04/19/96
SUP/RET TRENCH
342960419-07

	Units	96B07043	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
1,1,1-Trichloroethane	ug/kg	ND	04/24/96	MFF	2.5		
1,1,2-Trichloroethane	ug/kg	ND	04/24/96	MFF	2.5		
Trichloroethylene	ug/kg	ND	04/24/96	MFF	2.5		
Trichlorofluoromethane	ug/kg	ND	04/24/96	MFF	2.5		
1,2,3-Trichloropropane	ug/kg	ND	04/24/96	MFF	2.5		
Vinyl Chloride	ug/kg	ND	04/24/96	MFF	2.5		
p&m-Xylene	ug/kg	ND	04/24/96	MFF	5.0		
vlene	ug/kg	ND	04/24/96	MFF	2.5		

Analytical Method(s):

SW846 8010/8020

PURGE AND TRAP CONCENTRATION WITH QUANTITATION BY GAS CHROMATOGRAPHY WITH PID/ELCD.

: Method Detection Limit
ND = Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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ANALYTICAL LABORATORY

39 Spruce Street • 2nd Floor • East Longmeadow, MA 01028 • FAX 413/525-6405 • TEL 413/525-2332

LIMS-BAT #: LIMS-23889
Job Number: 23889
Sample Matrix: SOIL

Sampled: 04/19/96
VENT TRENCH
342960419-06

	Units	96B07042	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	22.1	04/26/96	SAM	19.7		

Sampled: 04/19/96
SUP/RET TRENCH
342960419-07

	Units	96B07043	Date Analyzed	Analyst	MDL	SPEC LIMIT	P/F
Total Petroleum Hydrocarbons	mg/kg	BDL	04/26/96	SAM	20.0		

Analytical Method(s):

MODIFIED EPA 418.1

INFRA-RED DETERMINATION FOLLOWING EXTRACTION OF HYDROCARBONS INTO
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)

MDL = Method Detection Limit
ND - Not Detected
BDL = Below Detection Limit
NM = Not Measured

SPEC LIMIT = a client specified, recommended, or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

LIMS-23884

Fuss & O'Neill Inc.
consulting engineers
Environmental Field Services

CHAIN-OF-CUSTODY RECORD № 029479

FUSS & O'NEILL, INC.
146 HARTFORD ROAD
MANCHESTER, CT 06040
(203) 646-2469

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
DPW	MYSTIC ORAL SCHOOL	91-272	CONTEST

REPORT TO: RICK LARDIE
INVOICE TO: CT DPW
P. O. #:

Source Codes: MW=Monitor Well, RO=Run Off, T=Treatment Facility, X= Other, Specify; B=Bottom Sediment, O=Outfall, S=Soil, W=Well; L=Lake/Pond/Ocean, PW=Potable Water, SG=Sludge; LF=Landfill, R=River/Stream, ST=Septic Tank

ITEM NUMBER	SAMPLE NUMBER	SOURCE CODE	CONTAINER NO	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERV	ANALYSIS REQUIRED	COMMENTS	TRANSFER NUMBER & CHECK 1	2	3	4
1	342960419-06	S	2	G	8oz	I	8010/8020/MTBE 96B07042 TPH	VENT TRENCH	✓	✓	✓	✓
2	↓ -07	S	2	G	8oz	I	8010/8020/MTBE 96B07043 TPH	SUP/RET TRENCH	✓	✓	✓	✓

Container Code: P=Plastic V=VOA Vial C=Cube G=Glass A=Amber Glass T=Teflon Lid B=Bacteria Bottle

Preservative Code: I=Iced F=Filtered N=Nitric Acid [HNO_3] H=Hydrochloric Acid [HCl] S=Sodium Hydroxide [NaOH] T=Sodium Thiosulfate [$Na_2S_2O_3$] B=Sodium Bisulfate [$NaHSO_4$] O=Sulfuric Acid [H_2SO_4] A=Ascorbic Acid [$C_6H_8O_6$] X=Other, Specify

Sampler's Signature	Affiliation	Date	Time
Bradford Treem	FTO	4/19/96	

ADDITIONAL COMMENTS:

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
1	1+2	B. Treem	FTO FRIDGE	4/19/96	1630
2	1+2	FTO Fridge	M. Waite	4-22-96	1110
3	1+2	M. Waite	Don Schreier	4/22/96	1110
4	1+2	Don Schreier	[illegible]	4/22/96	1200

Response Environmental, Inc.

October 22, 2003

Note: mail copy to Jacquelyn Brown 10/27/03

Mr. Jeff Chandler
Connecticut Department of Environmental Protection
Oil & Chemical Spill Response Division
79 Elm Street
Hartford, CT 06106

Re: Incident Completion Report Case #2003-03753
15-40 gallon #2 Fuel Oil
Mystic Education Center
240 Oral School Road
Mystic, CT

On behalf of Dime Oil Company of Waterbury, Connecticut and their Insurance Company, the following Incident Completion Report is respectfully submitted.

SITE CLOSURE REPORT

Site Information and Activities Conducted:

At approximately 6:04 p.m. on Tuesday May 20, 2003 Response Environmental Inc. (REI) received a call from Tom Kraft of Dime Oil informing REI, environmental consultant for their insurance carrier, of a release of #2 fuel oil at the above-referenced location. Mr. Kraft explained that Dime Oil was making a delivery of #2 heating oil to one of the facility's two 10,000-gallon underground storage tanks (UST) on May 20, 2003. The tank was measured with a tank stick and it was determined that 3,000 gallons would fit into the tank. 2,100 gallons were delivered to the tank when the delivery stopped. The driver disconnected the coaxial fitting on the fill pipe releasing approximately 15-20 gallons. Oil was released to a concrete pad over the tanks and the adjacent soil around the pad.

REI dispatched Environmental Services to the site to begin the clean up. At 6:15 REI was informed by Mr. Kraft that the Mystic Fire Department was at the scene and that Jeff Chandler of the Connecticut Department of Environmental Protection was in the area and that he was in route to the site. Jeff Chandler was contacted by REI to inform him that Environmental Services Inc. (ESI) was in route to clean up the release. After Jeff Chandler arrived at the site, he informed REI that he thought that the release was closer to 40 gallons than the 20 estimated by Dime Oil.

ESI contacted REI when they arrived on site to verify site conditions. Two 10,000 gallon tanks are installed underground under a concrete pad. The tanks are fiberglass construction and installed in pea stone backfill. The tanks are used for heat and hot water for the facility. The concrete pad is approximately 20x30 feet with half of the pad impacted by oil from the release. Two plastic containment sumps, which provide access to the tops of the tanks and associated piping, were also impacted by the release. Approximately 2/3 of a lawn area around the tank pad was also impacted by the release.

ESI spread speedy dry over the impacted area of the concrete pad to absorb the remaining oil. The speedy dry was swept up and the concrete pad was washed down with a biodegradable cleaner. The oil that remained in the sumps was removed with absorbent boom and pads.

On May 21, 2003 ESI under the direction of REI excavated the impacted soil from around the concrete pad. Soil was excavated to a depth of approximately 18 to 24 inches. Excavation stopped due to the pea stone backfill caving into the excavation and potentially undermining the concrete pad. Impacted soil was placed in two roll off containers for subsequent disposal. The speedy dry from the previous day was also placed in the roll off. Jeff Chandler from CT-DEP was on-site during a portion of the excavation. REI also met with the Property Management Company and the Maintenance Manager while on site and informed them of the clean up process.

563 Main Street • Suite 211 • Worcester, MA 01608 • Telephone 508-795-0110 • FAX 508-795-0910

Soil assessment activities were conducted on May 21, 2003 and consisted of the collection of eight representative soil samples from the entire excavated area. These samples were submitted to a CT-DEP certified laboratory for Extractable Total Petroleum Hydrocarbon (ETPH) analysis. Results of these analyses are provided in **Attachment One**, and are summarized below in **Table 1.** The locations of the samples are provided in **Figure One, Site Plan.**

Table 1
Soil Analytical Results Post Excavation May 21, 2003

Sample ID	PID	ETPH C9-36
S-1	30.1	5,100
S-2	95.6	22,000
S-3	0.0	1,400
S-4	19.6	910
S-5	132.0	5,600
S-6	97.2	3,000
S-7	53	2,100
S-8	0.0	520
CT-DEP Standard		500

BDL = Below Detection Limits PID readings in part per million (volume per volume) as benzene
ETPH values and standards in milligrams per kilogram (mg/kg, ppm)

Based on the results additional excavation was scheduled. Only one sample was approaching the CT-DEP standards of 500 ppm. Due to structural concerns with the concrete pad, hand excavation was used.

On May 27, 2003 additional excavation along the perimeter of the concrete pad was performed. An additional one to two feet of impacted soil and pea stone were removed and placed in a roll off container stored at the site.

Soil assessment activities were conducted on May 27, 2003 and consisted of the collection of eight representative soil samples from the locations sampled on May 21, 2003, after further excavation. These samples were submitted to a CT-DEP certified laboratory for Extractable Total Petroleum Hydrocarbon (ETPH) analysis. Results of these analyses are provided in **Attachment One**, and are summarized below in **Table 2.** The locations of the samples are provided in **Figure One, Site Plan.**

Table 2
Soil Analytical Results Post Excavation May 27, 2003

Sample ID	PID	ETPH C9-36
S-1	28.2	450
S-2	71.0	2,600
S-3	6.3	430

Table 2 Continued

S-4	63.8	2,200
S-5	38.1	8,400
S-6	4.9	120
S-7	72.8	1,100
S-8	5.2	BDL
CT-DEP Standard		500

BDL = Below Detection Limits PID readings in part per million (volume per volume) as benzene
ETPH values and standards in milligrams per kilogram (mg/kg, ppm)

Four of the eight samples were below state standards. Based on the elevated readings and that the excavation was at the structural limit, Jeff Chandler of the CT-DEP was contacted. REI requested approval to install a Soil Vapor Extraction (SVE) system along the excavated area of the concrete pad to reduce the remaining residual. The system was approved and perforated piping for the system was installed in the excavation. The piping was backfilled with stone and a layer of poly sheeting placed over the piping. The SVE system was installed and tied into the backfilled piping.

On June 13, 2003 the final wiring was complete and the system was turned on. PID readings were collected at the effluent from the SVE system. Initial readings were 25.4 ppmv to 38.0 ppmv.

On July 23, 2003 PID readings were taken from the effluent of the SVE system. Results showed 2.6 ppmv, which is a significant decrease from the initial readings of 25.4 ppmv to 38 ppmv.

On August 23, 2003 PID readings were taken from the effluent of the SVE system. Results showed 0.0 ppmv, which is a significant decrease from the initial readings of 25.4 ppmv to 38 ppmv. The system was shut off for three hours to allow the soil gas to reach equilibrium and then re-started. PID readings were then taken from the effluent of the SVE system. Results showed 0.0 ppmv indicating that no residual fuel oil vapors were present in the soil peastone. The system was left running until it can be dismantled and removed from the site.

As documented above, subsequent to the removal of impacted material, the cleaning of the concrete pad and the installation and operation of the SVE system, visual, olfactory, laboratory and PID observations, indicates that the fuel oil released to the concrete pad and soil on May 20, 2003, has been removed. It is opined that all response actions have been completed to fully remediate the release of May 20, 2003 in accordance with CT-DEP regulations. No further actions are required.

Management of Remediation Waste:

The following summarizes remediation waste generated during the site remediation activities. On May 20 and May 27, 2003 25.32 tons of impacted soil was transported from the site under Non RCRA Hazardous Waste Manifest for subsequent disposal at the Phoenix Soil facility in Waterbury, Connecticut. The disposal documentation can be found in **Attachment Two.**

If you have any questions, please contact me at 508-795-0110.

Sincerely,

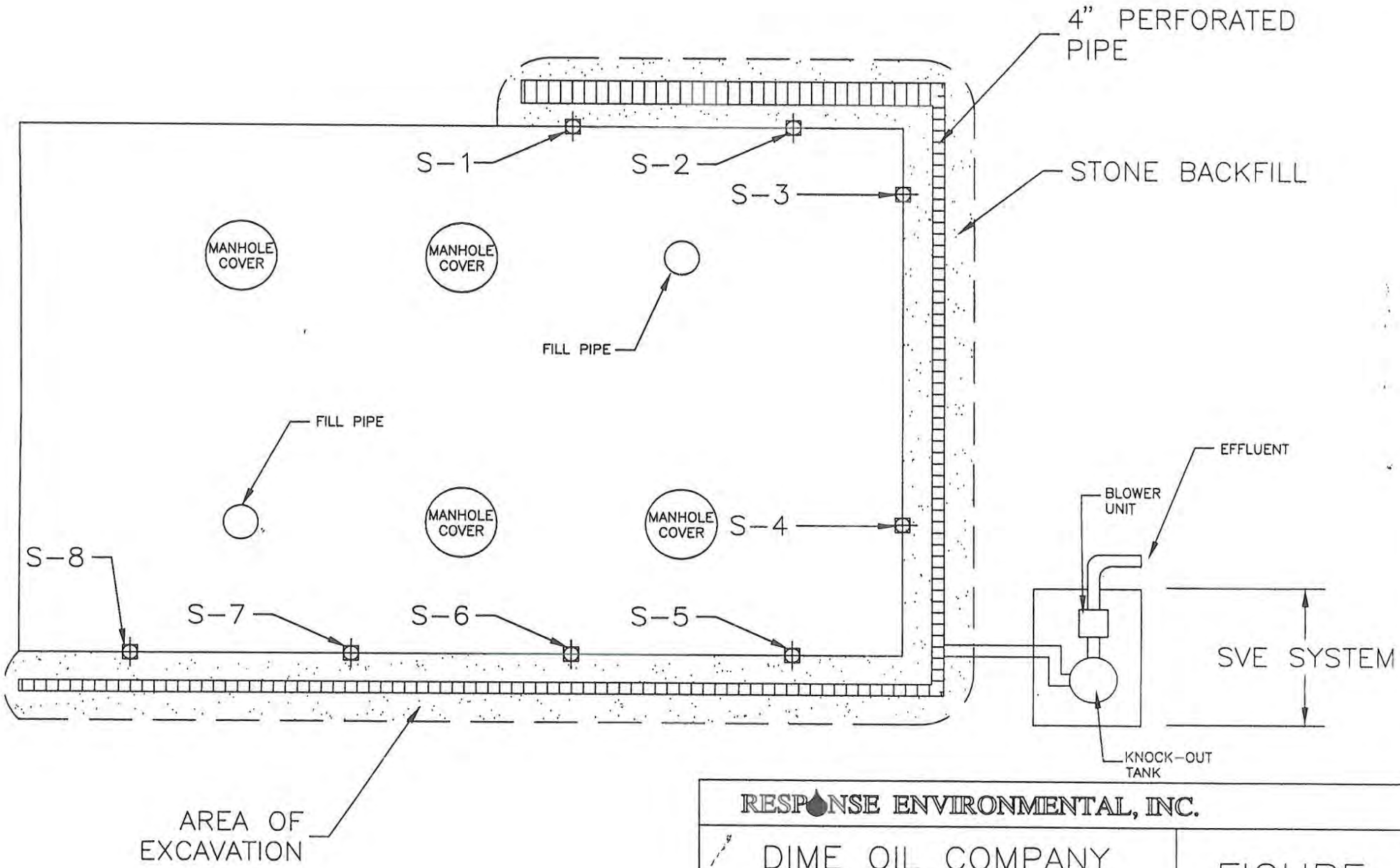
Alan P. Desrosiers
Project Manager

cc: Mr. Tim Tressy Claim #SPUMP409
Murdock Claim Management
425 Day Hill Road, P.O. Box 770
Windsor, CT 06095-0770

REI Project File

Mr. Tom Kraft
Dime Oil Co.
93 Industry Lane
Waterbury, CT 06704

Mr. Harold Monroe
Mystic Education Center
240 Oral School Road
Mystic, CT 06355



RESPONSE ENVIRONMENTAL, INC.

DIME OIL COMPANY
240 ORAL SCHOOL ROAD
WOODBRIDGE, CT

2003-03753

DATE: OCTOBER 21, 2003

SCALE: 1" = 5'

FIGURE
SITE
LAYOUT

ATTACHMENT ONE
LABORATORY REPORT

SPECTRUM ANALYTICAL, INC.
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Massachusetts Certification # M-MA138
Rhode Island # 98 Maine # MA138
Florida # E87600 / 87562
New Hampshire # 2538
Connecticut # PH-0777
New York # 11393

ACCREDITED IN ACCORDANCE WITH nelac

Response Environmental, Inc.
563 Main Street, Suite 211
Worcester, MA 01608

Attn: Alan Desrosiers

Friday, May 23, 2003

Report Status:
- ☑ Final Report
- ☐ Re-issued Report
- ☐ Revised Report

Client Project Number: SPUMP-DI **Location:** Dime Oil - Mystic, CT

Laboratory ID	Client Sample ID	Analyses Requested
AD87673	S-1	Extractable TPH Ultrasonic Extraction % Solids
AD87674	S-2	Extractable TPH Ultrasonic Extraction % Solids
AD87675	S-3	Extractable TPH Ultrasonic Extraction % Solids
AD87676	S-4	Extractable TPH Ultrasonic Extraction % Solids
AD87677	S-5	Extractable TPH Ultrasonic Extraction % Solids
AD87678	S-6	Extractable TPH Ultrasonic Extraction % Solids
AD87679	S-7	Extractable TPH Ultrasonic Extraction % Solids
AD87680	S-8	Extractable TPH Ultrasonic Extraction % Solids

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SPECTRUM ANALYTICAL, INC.
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Client Project Number: SPUMP-DI **Location:** Dime Oil - Mystic, CT

Laboratory ID	Client Sample ID	Analyses Requested

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

11 Almgren Drive • Agawam, Massachusetts 01001 • 1-800-789-9115 • 413-789-9018 • Fax 413-789-2076

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Location: Dime Oil - Mystic, CT
Client: RESPONSE
Lab ID No: AD87673
Client Id: S-1

Client Project No: SPUMP-DI
Submittal Date: 5/22/2003
Collection Date: 5/21/2003
Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			5/22/2003	AM	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	5,100	mg/Kg	20	5/22/2003	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	20	5/22/2003	JD	CT ETPH
Fuel Oil #2	5,100	mg/Kg	20	5/22/2003	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	5/22/2003	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	5/22/2003	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	20	5/22/2003	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	5/22/2003	JD	CT ETPH
Unidentified	Below det lim	mg/Kg	20	5/22/2003	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	20	5/22/2003	JD	CT ETPH
1-Chloro-octadecane (%SR)	80	mg/Kg	0.	5/22/2003	JD	CT ETPH
% Solids	91.7	%		5/22/2003	BH	SM2540 B Mod.

Lab ID No: AD87674
Client Id: S-2

Collection Date: 5/21/2003
Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			5/22/2003	AM	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	22,000	mg/Kg	30	5/22/2003	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Fuel Oil #2	22,000	mg/Kg	30	5/22/2003	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Unidentified	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
1-Chloro-octadecane (%SR)	72	mg/Kg	0.	5/22/2003	JD	CT ETPH
% Solids	83.2	%		5/22/2003	BH	SM2540 B Mod.

Lab ID No: AD87675
Client Id: S-3

Collection Date: 5/21/2003
Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			5/22/2003	AM	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	1,400	mg/Kg	20	5/22/2003	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	20	5/22/2003	JD	CT ETPH
Fuel Oil #2	1,400	mg/Kg	20	5/22/2003	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	5/22/2003	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	5/22/2003	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	20	5/22/2003	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	5/22/2003	JD	CT ETPH
Unidentified	Below det lim	mg/Kg	20	5/22/2003	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	20	5/22/2003	JD	CT ETPH
1-Chloro-octadecane (%SR)	96	mg/Kg	0.	5/22/2003	JD	CT ETPH
% Solids	94.8	%		5/22/2003	BH	SM2540 B Mod.

Lab ID No: AD87676
Client Id: S-4

Collection Date: 5/21/2003
Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			5/22/2003	AM	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	910	mg/Kg	30	5/22/2003	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Fuel Oil #2	910	mg/Kg	30	5/22/2003	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Unidentified	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
1-Chloro-octadecane (%SR)	56	mg/Kg	0.	5/22/2003	JD	CT ETPH
% Solids	95.1	%		5/22/2003	BH	SM2540 B Mod.

Lab ID No: AD87677
Client Id: S-5

Collection Date: 5/21/2003
Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			5/22/2003	AM	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	5,600	mg/Kg	30	5/22/2003	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Fuel Oil #2	5,600	mg/Kg	30	5/22/2003	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Unidentified	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
1-Chloro-octadecane (%SR)	78	mg/Kg	0.	5/22/2003	JD	CT ETPH
% Solids	91.5	%		5/22/2003	BH	SM2540 B Mod.

Lab ID No: AD87678
Client Id: S-6

Collection Date: 5/21/2003
Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			5/22/2003	AM	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	3,000	mg/Kg	30	5/22/2003	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Fuel Oil #2	3,000	mg/Kg	30	5/22/2003	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Unidentified	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
1-Chloro-octadecane (%SR)	71	mg/Kg	0.	5/22/2003	JD	CT ETPH
% Solids	85.8	%		5/22/2003	BH	SM2540 B Mod.

Lab ID No: AD87679
Client Id: S-7

Collection Date: 5/21/2003
Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			5/22/2003	AM	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	2,100	mg/Kg	20	5/22/2003	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	20	5/22/2003	JD	CT ETPH
Fuel Oil #2	2,100	mg/Kg	20	5/22/2003	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	5/22/2003	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	5/22/2003	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	20	5/22/2003	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	5/22/2003	JD	CT ETPH
Unidentified	Below det lim	mg/Kg	20	5/22/2003	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	20	5/22/2003	JD	CT ETPH
1-Chloro-octadecane (%SR)	72	mg/Kg	0.	5/22/2003	JD	CT ETPH
% Solids	92.8	%		5/22/2003	BH	SM2540 B Mod.

Lab ID No: AD87680
Client Id: S-8

Collection Date: 5/21/2003
Matrix Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			5/22/2003	AM	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	520	mg/Kg	30	5/22/2003	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Fuel Oil #2	520	mg/Kg	30	5/22/2003	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Unidentified	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	30	5/22/2003	JD	CT ETPH
1-Chloro-octadecane (%SR)	51	mg/Kg	0.	5/22/2003	JD	CT ETPH
% Solids	93.5	%		5/22/2003	BH	SM2540 B Mod.

Reviewed by:

Quality Service/Quality Assurance Depts.

Validated by:

President/Laboratory Director

5/23/2003

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report Supplement

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline – includes regular, unleaded, premium, etc.
Fuel Oil #2 – includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 – includes #4 fuel oil
Fuel Oil #6 – includes #6 fuel oil and bunker "C" oil
Motor Oil – includes virgin and waste automobile oil
Ligroin – includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel – includes kerosene, Jet A and JP-4
Other Oil – includes lubricating and cutting oil, and silicon oil

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in our library.

After identification, the amount present in the sample is quantified using a calibration curve prepared from a petroleum product of the same category as the identified petroleum. Unidentified petroleum is quantified using a petroleum calibration that approximates the distribution of compounds in the sample. A * in the results column indicates the primary petroleum fingerprint calibration used to quantify unidentified samples. A ** in the results column indicates the secondary petroleum fingerprint calibration used to quantify unidentified samples. A *** in the results column indicates the tertiary petroleum fingerprint calibration used to quantify unidentified samples.

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report Supplement
References

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Standards
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4-85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption
ASTM	American Society for Testing and Materials
BOD	Biological Oxygen Demand
°C	degree(s) Celsius
COD	Chemical Oxygen Demand
CMR	Code of Massachusetts Regulations
DEP	Department of Environmental Protection
DI	De-ionized
DO	Dissolved Oxygen
EPA	Environmental Protection Agency
EPH	Extractable Petroleum Hydrocarbons
FID	Flame Ionization Detector
GC	Gas Chromatograph
GC / MS	Gas Chromatograph / Mass Spectrometer
ICP	Inductively Coupled Plasma
Id	Identification
MCL	Maximum Contaminant Level
MDL	Minimum Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NTU	Nephelometric Turbidity Units
PAHs	Polynuclear Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PID	Photo Ionization Detector
PQL	Practical Quantitation Limit
R	Recovery (%R: Percent Recovery)
RSD	Relative Standard Deviation
SM	Standard Method
SR	Surrogate Recovery (%SR)
SW	Solid Waste
THM	Trihalomethane(s)
TOC	Total Organic Carbon
TOX	Total Organic Halogen
TPH	Total Petroleum Hydrocarbons
VOC	Volatile Organic Compound
VPH	Volatile Petroleum Hydrocarbons

0522 0759

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Special Handling: TAT
☐ Standard TAT - 7 to 10 business days
☑ Rush TAT - Date Needed: 5/23
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

Page 1 of 1

Report To: Response Environmental
563 Main Street
Worcester MA 01608

Project Mgr.: Alan Desrosiers

Invoice To: RSI
23051030

P.O. No.: SPMP-DIME RQN:

Project No.: SPMP - DIME
Site Name: Dime Oil
Location: Mystic State: CT
Sampler(s): Alan Desrosiers

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9= 4°C 10=

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Cr ETPH								Notes:
AD 87673	S-1	5/2/03	1330	G	SO	9		1			✓								
AD 87674	S-2	↓	↓	↓	↓	↓		↓			↓								
AD 87675	S-3																		
AD 87676	S-4																		
AD 87677	S-5																		
AD 87678	S-6																		
AD 87679	S-7																		
AD 87680	S-8																		
AD																			
AD																			

☑ Fax results when available to (508) 795 0910
☐ E-mail results when available to
Condition upon Receipt: ☑ Iced ☐ Ambient ☐ 2 °C

Relinquished by:	Received by:	Date:	Time:
		22 May	0700
		5/22	755

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Massachusetts Certification # M-MA138
Rhode Island # 98 Maine # MA138
Florida # E87600 / 87562
New Hampshire # 2538
Connecticut # PH-0777
New York # 11393

Response Environmental, Inc.
563 Main Street, Suite 211
Worcester, MA 01608

Attn: Alan Desrosiers

Tuesday, June 03, 2003

Report Status:
- ☑ Final Report
- ☐ Re-issued Report
- ☐ Revised Report

Client Project Number: SPUMP

Location: Dime Oil - Mystic, CT

Laboratory ID	Client Sample ID	Analyses Requested
AD88865	S-1	Extractable TPH % Solids Ultrasonic Extraction
AD88866	S-2	Extractable TPH % Solids Ultrasonic Extraction
AD88867	S-3	Extractable TPH % Solids Ultrasonic Extraction
AD88868	S-4	Extractable TPH % Solids Ultrasonic Extraction
AD88869	S-5	Extractable TPH % Solids Ultrasonic Extraction
AD88870	S-6	Extractable TPH % Solids Ultrasonic Extraction
AD88871	S-7	Extractable TPH % Solids Ultrasonic Extraction
AD88872	S-8	Extractable TPH % Solids Ultrasonic Extraction

11 Almgren Drive • Agawam, Massachusetts 01001 • 1-800-789-9115 • 413-789-9018 • Fax 413-789-4076

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Client Project Number: SPUMP **Location:** Dime Oil - Mystic, CT

Laboratory ID	Client Sample ID	Analyses Requested

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

11 Almgren Drive • Agawam, Massachusetts 01001 • 1-800-789-9115 • 413-789-9018 • Fax 413-789-4076

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Location: Dime Oil - Mystic, CT
Client: RESPONSE

Client Project No: SPUMP
Submittal Date: 5/28/2003

Lab ID No: AD88865 **Client Id:** S-1 **Collection Date:** 5/27/2003 **Matrix:** Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			6/2/2003	AM	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	450	mg/Kg	20	6/2/2003	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Fuel Oil #2	450	mg/Kg	20	6/2/2003	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Unidentified	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
1-Chloro-octadecane (%SR)	82	mg/Kg	0.	6/2/2003	JD	CT ETPH
% Solids	95.0	%		5/29/2003	BH	SM2540 B Mod.

Lab ID No: AD88866 **Client Id:** S-2 **Collection Date:** 5/27/2003 **Matrix:** Soil

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			5/30/2003	AM	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	2,600	mg/Kg	20	6/2/2003	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Fuel Oil #2	2,600	mg/Kg	20	6/2/2003	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Unidentified	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
1-Chloro-octadecane (%SR)	81	mg/Kg	0.	6/2/2003	JD	CT ETPH
% Solids	93.0	%		5/29/2003	BH	SM2540 B Mod.

Lab ID No: AD88867 Client Id: S-3 **Collection Date: 5/27/2003 Matrix: Soil**

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			5/30/2003	AM	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	430	mg/Kg	20	6/2/2003	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Fuel Oil #2	430	mg/Kg	20	6/2/2003	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Unidentified	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
1-Chloro-octadecane (%SR)	57	mg/Kg	0.	6/2/2003	JD	CT ETPH
% Solids	94.4	%		5/29/2003	BH	SM2540 B Mod.

Lab ID No: AD88868 Client Id: S-4 **Collection Date: 5/27/2003 Matrix: Soil**

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			5/30/2003	AM	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	2,200	mg/Kg	20	6/2/2003	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Fuel Oil #2	2,200	mg/Kg	20	6/2/2003	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Unidentified	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
1-Chloro-octadecane (%SR)	89	mg/Kg	0.	6/2/2003	JD	CT ETPH
% Solids	94.1	%		5/29/2003	BH	SM2540 B Mod.

Lab ID No: AD88869 Client Id: S-5 **Collection Date: 5/27/2003** **Matrix: Soil**

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			5/30/2003	AM	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	8,400	mg/Kg	20	6/2/2003	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Fuel Oil #2	8,400	mg/Kg	20	6/2/2003	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Unidentified	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
1-Chloro-octadecane (%SR)	80	mg/Kg	0.	6/2/2003	JD	CT ETPH
% Solids	89.4	%		5/29/2003	BH	SM2540 B Mod.

Lab ID No: AD88870 Client Id: S-6 **Collection Date: 5/27/2003** **Matrix: Soil**

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			5/30/2003	AM	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	120	mg/Kg	10	6/2/2003	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	10	6/2/2003	JD	CT ETPH
Fuel Oil #2	120	mg/Kg	10	6/2/2003	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	10	6/2/2003	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	10	6/2/2003	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	10	6/2/2003	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	10	6/2/2003	JD	CT ETPH
Unidentified	Below det lim	mg/Kg	10	6/2/2003	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	10	6/2/2003	JD	CT ETPH
1-Chloro-octadecane (%SR)	51	mg/Kg	0.	6/2/2003	JD	CT ETPH
% Solids	96.5	%		5/29/2003	BH	SM2540 B Mod.

Lab ID No: AD88871 Client Id: S-7 **Collection Date: 5/27/2003 Matrix: Soil**

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			5/30/2003	AM	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	1,100	mg/Kg	20	6/2/2003	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Fuel Oil #2	1,100	mg/Kg	20	6/2/2003	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Unidentified	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	20	6/2/2003	JD	CT ETPH
1-Chloro-octadecane (%SR)	75	mg/Kg	0.	6/2/2003	JD	CT ETPH
% Solids	85.1	%		5/29/2003	BH	SM2540 B Mod.

Lab ID No: AD88872 Client Id: S-8 **Collection Date: 5/27/2003 Matrix: Soil**

Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			6/2/2003	AM	SW846 3550B
Petroleum Hydrocarbon Analysis						
Extractable TPH						
Total Petroleum Hydrocarbons (C9-C36)	Below det lim	mg/Kg	30	6/2/2003	JD	CT ETPH
Gasoline	Below det lim	mg/Kg	30	6/2/2003	JD	CT ETPH
Fuel Oil #2	Below det lim	mg/Kg	30	6/2/2003	JD	CT ETPH
Fuel Oil #4	Below det lim	mg/Kg	30	6/2/2003	JD	CT ETPH
Fuel Oil #6	Below det lim	mg/Kg	30	6/2/2003	JD	CT ETPH
Motor Oil	Below det lim	mg/Kg	30	6/2/2003	JD	CT ETPH
Aviation Fuel	Below det lim	mg/Kg	30	6/2/2003	JD	CT ETPH
Unidentified	Below det lim	mg/Kg	30	6/2/2003	JD	CT ETPH
Other Oil	Below det lim	mg/Kg	30	6/2/2003	JD	CT ETPH
1-Chloro-octadecane (%SR)	86	mg/Kg	0.	6/2/2003	JD	CT ETPH
% Solids	80.8	%		5/29/2003	BH	SM2540 B Mod.

Reviewed by:

Quality Service/Quality Assurance Depts.

Validated by:

President/Laboratory Director

6/3/2003

SPECTRUM ANALYTICAL, INC.
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HANIBAL TECHNOLOGY

Laboratory Report Supplement

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline – includes regular, unleaded, premium, etc.
Fuel Oil #2 – includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 – includes #4 fuel oil
Fuel Oil #6 – includes #6 fuel oil and bunker "C" oil
Motor Oil – includes virgin and waste automobile oil
Ligroin – includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel – includes kerosene, Jet A and JP-4
Other Oil – includes lubricating and cutting oil, and silicon oil

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in our library.

After identification, the amount present in the sample is quantified using a calibration curve prepared from a petroleum product of the same category as the identified petroleum. Unidentified petroleum is quantified using a petroleum calibration that approximates the distribution of compounds in the sample. A * in the results column indicates the primary petroleum fingerprint calibration used to quantify unidentified samples. A ** in the results column indicates the secondary petroleum fingerprint calibration used to quantify unidentified samples. A *** in the results column indicates the tertiary petroleum fingerprint calibration used to quantify unidentified samples.

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report Supplement
References

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Standards
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4-85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
MADEP EPH	Method for the Determination of Extractable Petroleum Hydrocarbons (EPH)
MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption
ASTM	American Society for Testing and Materials
BOD	Biological Oxygen Demand
°C	degree(s) Celsius
COD	Chemical Oxygen Demand
CMR	Code of Massachusetts Regulations
DEP	Department of Environmental Protection
DI	De-ionized
DO	Dissolved Oxygen
EPA	Environmental Protection Agency
EPH	Extractable Petroleum Hydrocarbons
FID	Flame Ionization Detector
GC	Gas Chromatograph
GC / MS	Gas Chromatograph / Mass Spectrometer
ICP	Inductively Coupled Plasma
Id	Identification
MCL	Maximum Contaminant Level
MDL	Minimum Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NTU	Nephelometric Turbidity Units
PAHs	Polynuclear Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PID	Photo Ionization Detector
PQL	Practical Quantitation Limit
R	Recovery (%R: Percent Recovery)
RSD	Relative Standard Deviation
SM	Standard Method
SR	Surrogate Recovery (%SR)
SW	Solid Waste
THM	Trihalomethane(s)
TOC	Total Organic Carbon
TOX	Total Organic Halogen
TPH	Total Petroleum Hydrocarbons
VOC	Volatile Organic Compound
VPH	Volatile Petroleum Hydrocarbons

0529 0817

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Special Handling:
☐ Standard TAT - 7 to 10 business days
☑ Rush TAT - Date Needed: 6/3/03
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days unless otherwise instructed.

Page 1 of 1

Report To: Response Environmental
563 Main Street
Worcester MA 01608

Project Mgr.: Alan DesRosiers

Invoice To: AEI
23060033

P.O. No.: Sump RQN:

Project No.: Sump
Site Name: Dime 01
Location: Mystic State: CT
Sampler(s): Alan DesRosiers

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8= $NaHSO_4$ 9=_____ 10=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		Cr ETPH								Notes:
AD 88865	S-1	5/27/03	1330	G	SO	9		1				✓								
AD 88866	S-2	↓	↓	↓	↓	↓		↓				↓								
AD 88867	S-3																			
AD 88868	S-4																			
AD 88869	S-5																			
AD 88870	S-6																			
AD 88871	S-7																			
AD 88872	S-8	↓	↓	↓	↓	↓		↓				↓								
AD																				
AD																				

☐ Fax results when available to (508) 795 0910
☐ E-mail results when available to _____
Condition upon Receipt: ☐ Iced ☐ Ambient ☐ 5 °C

Relinquished by:	Received by:	Date:	Time:
Alan DesRosiers	Bergeron	5-28-03	12:53 PM
Bergeron	Mtz	5/28/03	1500

Ref

ATTACHMENT TWO
REMEDIATION WASTE DOCUMENTATION

11108

NON-RCRA HAZARDOUS WASTE MANIFEST

PS F 13429

1. GENERATOR'S NAME AND MAILING ADDRESS
DIME OIL
93 INDUSTRY LA
WATERBURY, CT 06704

GENERATOR'S SITE ADDRESS
240 OAK SCHOOL RD
MYSTIC CT 06355

2. GENERATOR'S PHONE: (203) 754-5334

3. TRANSPORTER 1 COMPANY NAME	4. US EPA ID NUMBER	A. TRANSPORTER 1'S PHONE	TRANSPORTER'S PLATE NUMBER
ENVIRONMENTAL SERVICES	NOT APPLICABLE	(860) 528-5506	X 163 A

5. TRANSPORTER 2 COMPANY NAME	6. US EPA ID NUMBER	B. TRANSPORTER 2'S PHONE	TRANSPORTER'S PLATE NUMBER
	NOT APPLICABLE	( )	

7. DESIGNATED FACILITY NAME AND SITE ADDRESS	8. MAILING ADDRESS	C. FACILITY'S PHONE
PHOENIX SOIL LLC 130 FREIGHT STREET WATERBURY, CT 06702	PHOENIX SOIL LLC PO BOX 1750 WATERBURY, CT 06721-1750	(203)-759-0053

9. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID NUMBER)	10. CONTAINERS NO.	TYPE	11. TOTAL QUANTITY	12. UNIT WT/VOL
a CONNECTICUT REGULATED WASTE SOLID, NONE, NONE	001	DT	00020	T
b				
c				

D. ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE	E. HANDLING CODES FOR WASTES LISTED ABOVE: INTERIM	FINAL
SOIL CONTAMINATED WITH PETROLEUM HYDROCARBONS	SO2	T57

13. SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

ESJ PROJECT # 2003-0751 PO #12376

14. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable national government regulations, and all applicable State of Connecticut laws and regulations. I certify that this material neither contains polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor has been mixed in anyway with PCB's in concentrations greater than or equal to 50 ppm. I certify that the material listed above contained no free liquids at the time of loading

PRINTED TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
JAMES E. MEYERHANS Agent	James E. Meyerhans	05	21	03

15. TRANSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINTED TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
Lyle A. Smith Sr.	Lyle A. Smith Sr.	05	22	03

16. TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINTED TYPED NAME	SIGNATURE	MONTH	DAY	YEAR

17. DISCREPANCY INDICATION SPACE

11(a) CORRECTED WEIGHT AS SCALED 14.23 TON'S

18. FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF WASTE MATERIALS COVERED BY THIS MANIFEST EXCEPT AS NOTED IN ITEM 13

PRINTED TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
Sue Bremner	Sue Bremner	5	22	03

COPY 3: FACILITY TO GENERATOR

Phoenix Soil LLC * P.O.Box 1750 * Waterbury CT 06721

REGISTRATION NUMBER 05862

TicketNumber
37770

Date
/22/03 11:00:59 AM

VEHICLE INFORMATION

Plate Number
63A

Manifest
PSF13429

Stream
11108

Site Name:
DIME OIL

WEIGHT INFORMATION

Product ID
2

GrossWeight	Tare Weight	NetWeight
62580	34120	28460

Net Weight Tons
14.23

11108

NON-RCRA HAZARDOUS WASTE MANIFEST

PS B 82382

1. GENERATOR'S NAME AND MAILING ADDRESS Dime Oil Co. 93 Industrial LA, Waterbury, CT 06704 2. GENERATOR'S PHONE: (203 754-5334	GENERATOR'S SITE ADDRESS 240 Oral School Rd. Mystic, CT.

3. TRANSPORTER 1 COMPANY NAME	4. US EPA ID NUMBER	A. TRANSPORTER 1'S PHONE	TRANSPORTER'S PLATE NUMBER
Environmental Services	NOT APPLICABLE	(860) 528 9500	X 10 A
5. TRANSPORTER 2 COMPANY NAME	6. US EPA ID NUMBER	B. TRANSPORTER 2'S PHONE	TRANSPORTER'S PLATE NUMBER
	NOT APPLICABLE	( )	

7. DESIGNATED FACILITY NAME AND SITE ADDRESS	8. MAILING ADDRESS	C. FACILITY'S PHONE
PHOENIX SOIL LLC 130 FREIGHT STREET WATERBURY, CT 06702	PHOENIX SOIL LLC PO BOX 1750 WATERBURY, CT 06721-1750	(203)-759-0053

9. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID NUMBER)	10. CONTAINERS NO	TYPE	11. TOTAL QUANTITY	12. UNIT WT/VOL
a. CONNECTICUT REGULATED WASTE SOLID, NONE, NONE	001	DT	00020	T
b.				
c.				

D. ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE	E. HANDLING CODES FOR WASTES LISTED ABOVE	
	INTERIM	FINAL
SOIL CONTAMINATED WITH PETROLEUM HYDROCARBONS	SO2	T57

13. SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

PO # ~~12411~~ 12508 ESI Project # 2003-0751

14. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable national government regulations, and all applicable State of Connecticut laws and regulations. I certify that this material neither contains polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor has been mixed in any way with PCB's in concentrations greater than or equal to 50 ppm. I certify that the material listed above contained no free liquids at the time of loading.

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
James F. Meyerhani Agent		05	21	03

15. TRANSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
Santiago Cruz Jr.		05	30	03

16. TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR

17. DISCREPANCY INDICATION SPACE

11(a) CORRECTED WEIGHT AS SCALED 11.09 TON'S

18. FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF WASTE MATERIALS COVERED BY THIS MANIFEST EXCEPT AS NOTED IN ITEM 13.

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
Steve Simmons		5	30	03

COPY 3: FACILITY TO GENERATOR

*Phoenix Soil LLC * P.O.Box 1750 * Waterbury CT 06721*

REGISTRATION NUMBER 05862

TicketNumber
38050

Date
5/30/03 3:18:53 PM

VEHICLE INFORMATION

Plate Number
10A

Manifest
PSB82382

Stream
11108

Site Name:
DIME OIL

WEIGHT INFORMATION

Product ID
2

GrossWeight	*Tare Weight*	*NetWeight*
57720	35540	22180

Net Weight Tons
11.09

CAUTION

CAUTION

Facility Planning
Environmental Risk Management

AARON ENVIRONMENTAL

189 Atwater Street – Plantsville, CT 06479 * Phone 860-276-1201 * Fax 860-276-1233

July 20, 2005

Ms. Jacquelyn Brown
State of Connecticut
Department of Public Works
165 Capitol Avenue
Hartford, CT 06106
(860) 713-5678

RE: Subsurface Investigation
Mystic Education Center
240 Oral School Road
Mystic, Connecticut
AARON Project No. 3649

Dear Ms. Brown:

This report summarizes the work conducted by AARON Environmental (AARON) relative to the removal of residual soil impacted by a release of diesel at the above referenced location.

The Connecticut Department of Environmental Protection (CT DEP) classifies the groundwater in the area as GA. The CT DEP considers that GA groundwater to be suitable for direct human consumption without treatment.

1.0 Notification and Permits

Prior to mobilization to the site, AARON coordinated utility mark-out with Connecticut's Call Before You Dig (CBYD) program.

2.0 Preliminary Subsurface Investigation

Prior to March 1, 2005, a release of approximately 200-gallons of diesel occurred at grade in the containment area and across the pavement from a generator enclosure. Surficial puddles and staining were cleaned up by another contractor on the day of the spill. On May 24, 2005, AARON Environmental mobilized to the site to remove residual soil that had been impacted by this release. After removal of the asphalt, AARON excavated a test pit to determine the extent of petroleum contaminated soil on May 24, 2005. On May 26 and May 27, 2005, AARON excavated the impacted area.

3.0 Field Screening and Analytical Results

Based on field screening data, AARON excavated approximately 38 tons of petroleum contaminated soil and stockpiled it on polyethylene sheeting. Excavation continued until AARON personnel collected five undisturbed (grab) soil samples. These included one from each sidewall at approximately three to five feet below grade. AARON conducted screening tests on these

confirmatory soil samples for TPH using the PetroFLAG® test kit and a MiniRae® photoionization detector (PID).

Sample ID	Northwest Corner of Excavation 1	West Sidewall	Northwest Corner of AST	Northwest Corner of Excavation 2	Northwest Corner of Generator Pad
Depth (inches)	32"	32"	32"	32"	60"
PetroFLAG	381	181	267	177	12
PID	20.1	8.0	0.0	0.0	2.4

Notes: Results from PetroFLAG are in ppm, and PID results are in ppm^{v}.

The field screening data indicated that remediation of the contaminated soil in the generator enclosure appeared to be adequate. The soil samples collected were submitted to EAS Laboratories (EAS) of Watertown, Connecticut for analysis using Connecticut's Extractable Total Petroleum Hydrocarbons (ETPH) method, volatile organic compounds (VOCs) according to EPA Method 8260, and semi-volatile organic compounds (SVOCs) according to EPA Method 8270.

The analytical data summarized in Table 1 indicates the soil samples collected from the excavation area were below the applicable criteria. A site sketch illustrating the location of the soil samples is also attached, as are copies of the lab reports.

4.0 Backfill

During our course of work, we excavated an area approximately 14 feet wide by 21 feet long and 3 feet deep. The clean material was stockpiled for re-use and the contaminated material was stockpiled for disposal. Backfill material consisted of sand from the bottom of the excavation to approximately six inches below grade. The remaining excavation was backfilled with process stone. At the completion of the excavation and backfilling, AARON compacted the entire area and replaced the asphalt curbing, affected asphalt area, and topped the disturbed area in the generator enclosure with ¾" stone. On June 8, 2005, AARON reinstalled the fence around the generator and restored the site.

5.0 Transportation and Disposal of Contaminated Soil

On June 15, 2005, the stockpile was removed from the site and transported to Phoenix Soil LLC of Waterbury, Connecticut for proper disposal. A total of 38.46 tons of soil were delivered to Phoenix. Copies of the waste manifests are attached.

6.0 Recommendations

Based upon the analytical results summarized in the attached table (compared to the relevant CT DEP Regulations), it is our recommendation that no further action be completed with this release. After excavating over thirty-eight (38) tons of petroleum contaminated soil, the post excavation soil samples revealed concentrations of targeted analytes at less than the CT DEP GA Pollution Mobility Criteria.

If you have any questions or concerns regarding this report or the project, please do not hesitate to contact the undersigned at (860) 276-1201.

Sincerely,

AARON ENVIRONMENTAL, LLC

Maureen Kerrigan
Environmental Analyst

Michael Bolesh
Project Manager

Attachments:

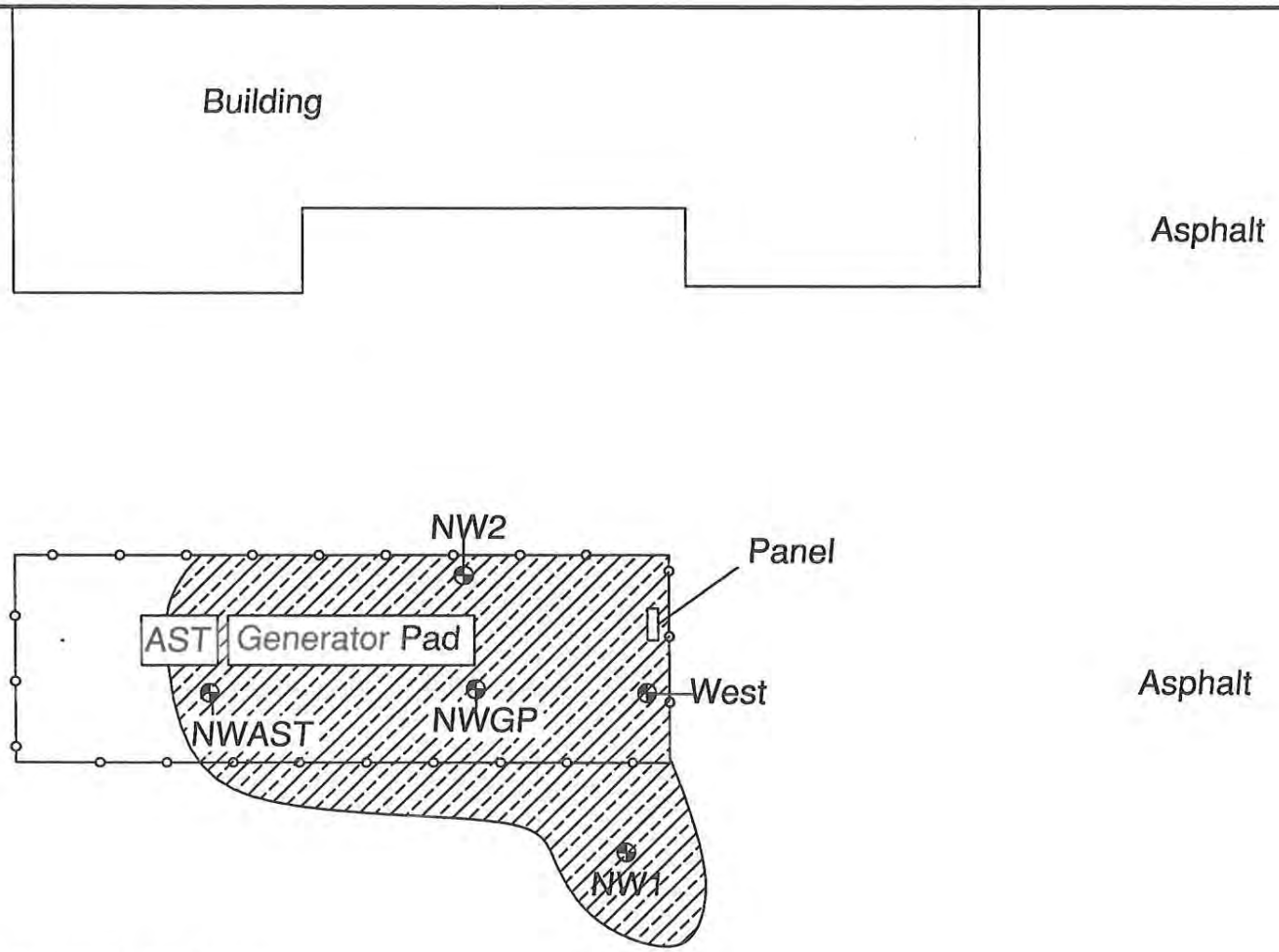
cc: Dimeo Properties
Dawn Hannegan
Property Manager
Mystic Educational Center

Diesel Generator Containment Soil Removal
Mystic Education Center
240 Oral School Road
Mystic, Connecticut
May 26, 2005

Sample Location	Sampling Depth	Parameter	Result	CT DEP Regulations		
Date: 5/26/05		(reported in ppb)	(converted to ppm)	RES DEC (ppm)	I/C DEC (ppm)	GAPMC (ppm)
Northwest Corner of Excavation 1	32"	**Volatile Organic Compounds by Method 8260 (All)**	BDL			
		ETPH	55	500	2500	500
		Semi-Volatile Organic Compounds by Method 8270 B/N Only				
		Phenanthrene	0.48	1000	2500	4
		Fluoranthene	1.1	1000	2500	5.6
		Pyrene	1.3	1000	2500	4
		Benzo(a)anthracene	0.83	1	7.8	1
		Chrysene	0.83	84	780	1
		Benzo(b)fluoranthene	1.1	1	7.8	1
		Benzo(k)fluoranthene	0.36	8.4	78	1
		Benzo(a)pyrene	0.83	1	1	1
West Sidewall	32"	**Volatile Organic Compounds by Method 8260 (All)**	BDL			
		ETPH	BDL	500	2500	500
		Semi-Volatile Organic Compounds by Method 8270 B/N Only (All)	BDL			
Northwest Corner of AST	32"	**Volatile Organic Compounds by Method 8260**				
		Benzene	BDL	21	200	0.02
		Toluene	BDL	500	1000	20
		Ethylbenzene	BDL	500	1000	10.1
		Xylenes	0.034	500	1000	19.5
		MTBE	BDL	500	1000	2
		1,3,5-Trimethylbenzene	0.053	500	1000	7
		sec-Butylbenzene	0.014	500	1000	1.4
		p-Isopropyltoluene	0.036	NE	NE	1.4
		n-Butylbenzene	0.014	500	1000	1.4
		ETPH	410	500	2500	500
		Semi-Volatile Organic Compounds by Method 8270 B/N Only				
		Phenanthrene	1.1	1000	2500	4
		Fluoranthene	0.99	1000	2500	5.6
		Pyrene	0.96	1000	2500	4
		Benzo(a)anthracene	0.49	1	7.8	1
		Chrysene	0.55	84	780	1
		Benzo(b)fluoranthene	0.58	1	7.8	1
		Benzo(k)fluoranthene	BDL	8.4	78	1
		Benzo(a)pyrene	0.37	1	1	1
Northwest Corner of Excavation 2	32"	**Volatile Organic Compounds by Method 8260 (All)**	BDL			
		ETPH	81	500	2500	500
		Semi-Volatile Organic Compounds by Method 8270 B/N Only				
		Phenanthrene	0.75	1000	2500	4
		Fluoranthene	1.3	1000	2500	5.6
		Pyrene	1.2	1000	2500	4
		Benzo(a)anthracene	0.72	1	7.8	1
		Chrysene	0.74	84	780	1
		Benzo(b)fluoranthene	0.84	1	7.8	1
		Benzo(k)fluoranthene	BDL	8.4	78	1
		Benzo(a)pyrene	0.63	1	1	1
Northwest Corner of Generator Pad	5'	**Volatile Organic Compounds by Method 8260 (All)**	BDL			
		ETPH	BDL	500	2500	500
		Semi-Volatile Organic Compounds by Method 8270 B/N Only	BDL			

Notes:
Bold Values = Result above the established criteria
BDL = Below Detection Limits
NE = Criteria Not Established

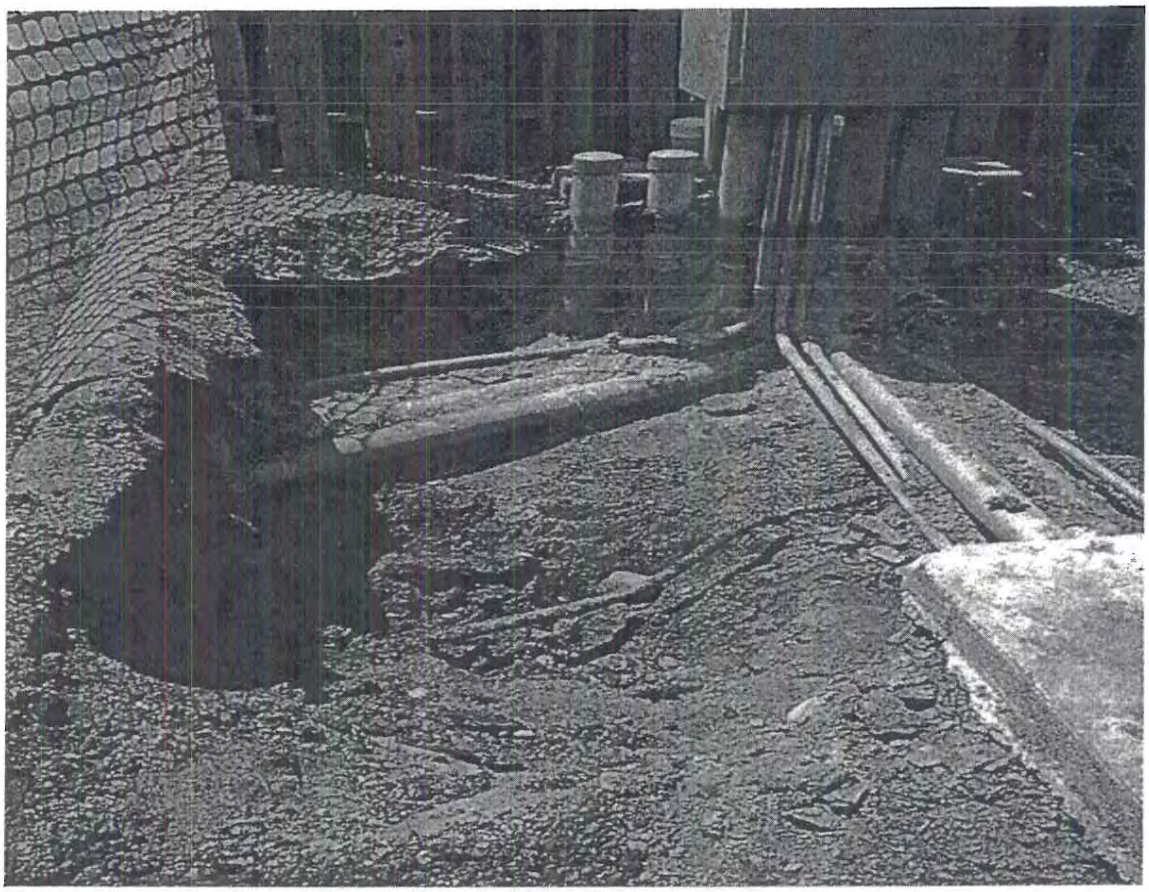
RES DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Direct Exposure Criteria
GA PMC = Pollutant Mobility Criteria for GA areas



Excavation Area:
Approxmately 21' wide x 14' long

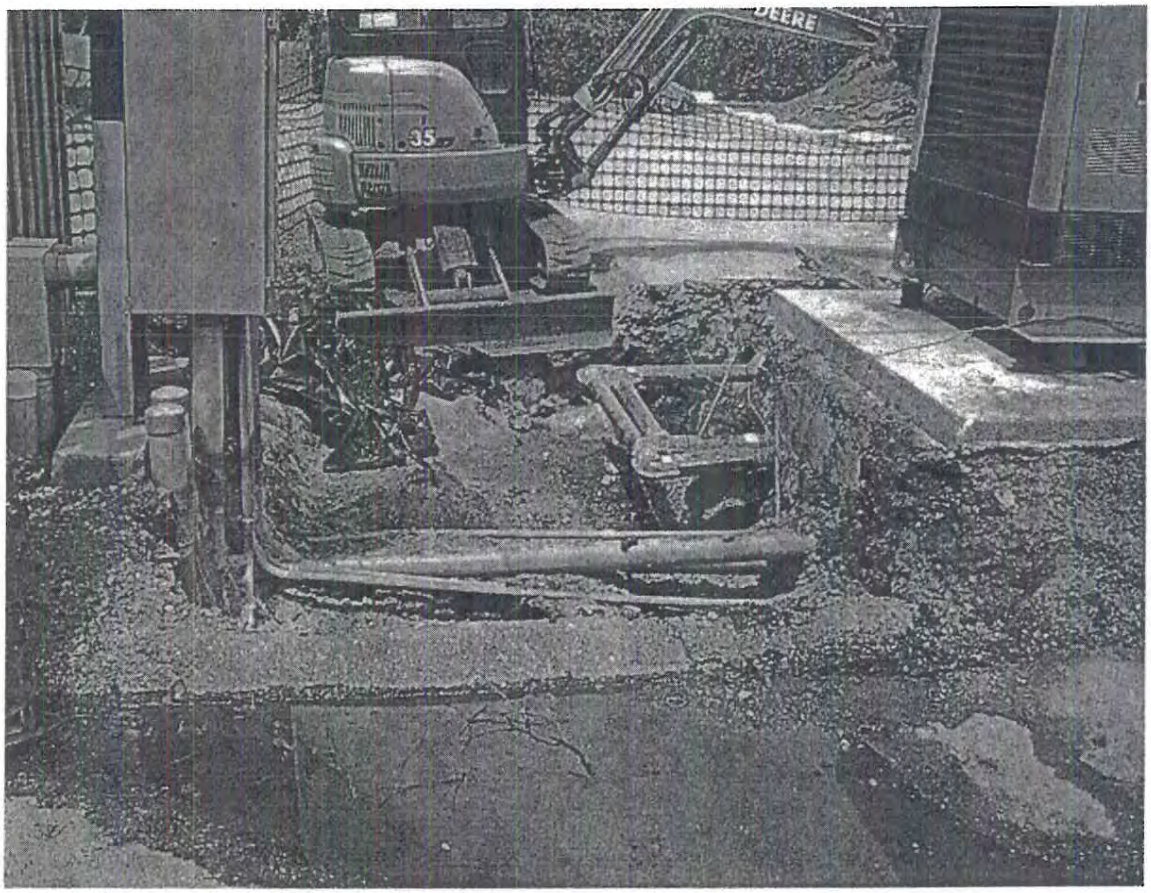
SCALE: NOT TO SCALE DATE: 6/15/05 DRAWN BY: MK CHECKED BY: MB	REVISIONS	PROJECT NO.: 3649 FILE NAME: MYSTIC EDUCATION CENTER
AARON ENVIRONMENTAL	169 ATWATER ST. PLANTSVILLE, CT. (860) 276-1201	___ OF ___ SHEETS

View of excavation.



Excavation around conduits-northwest sidewall view.

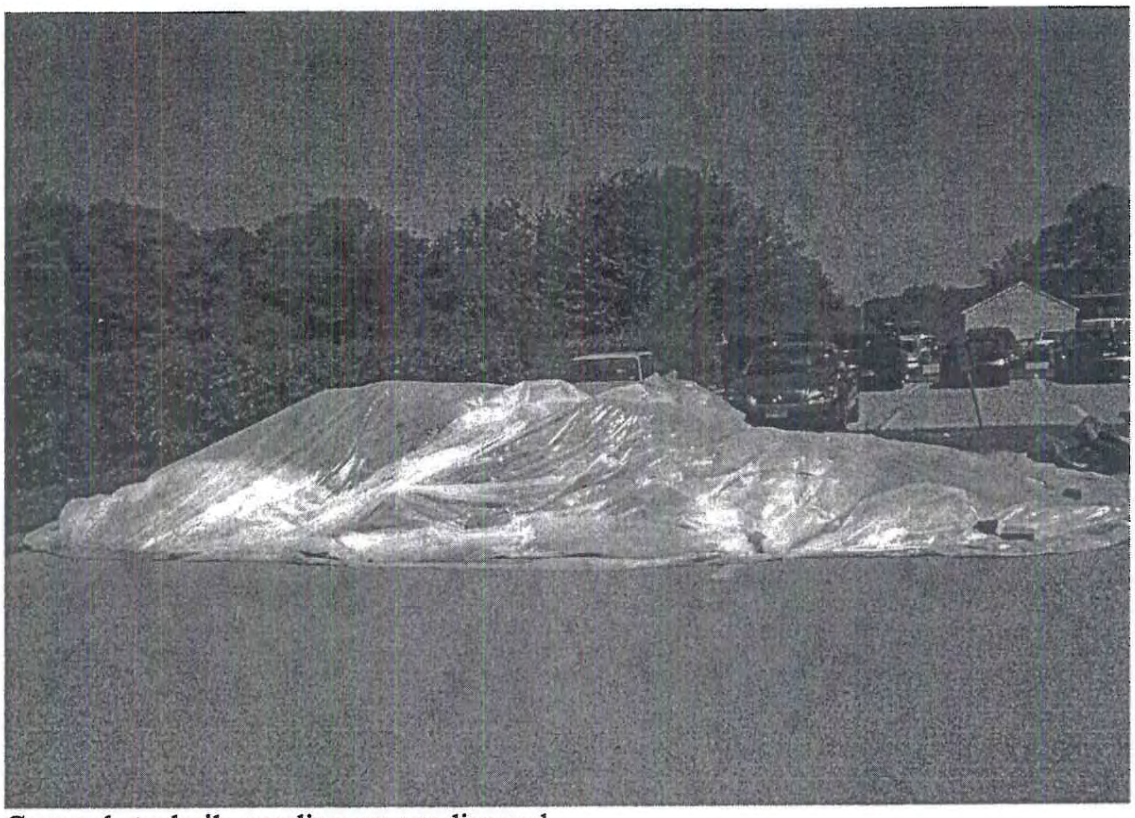
North sidewall view of the excavation.



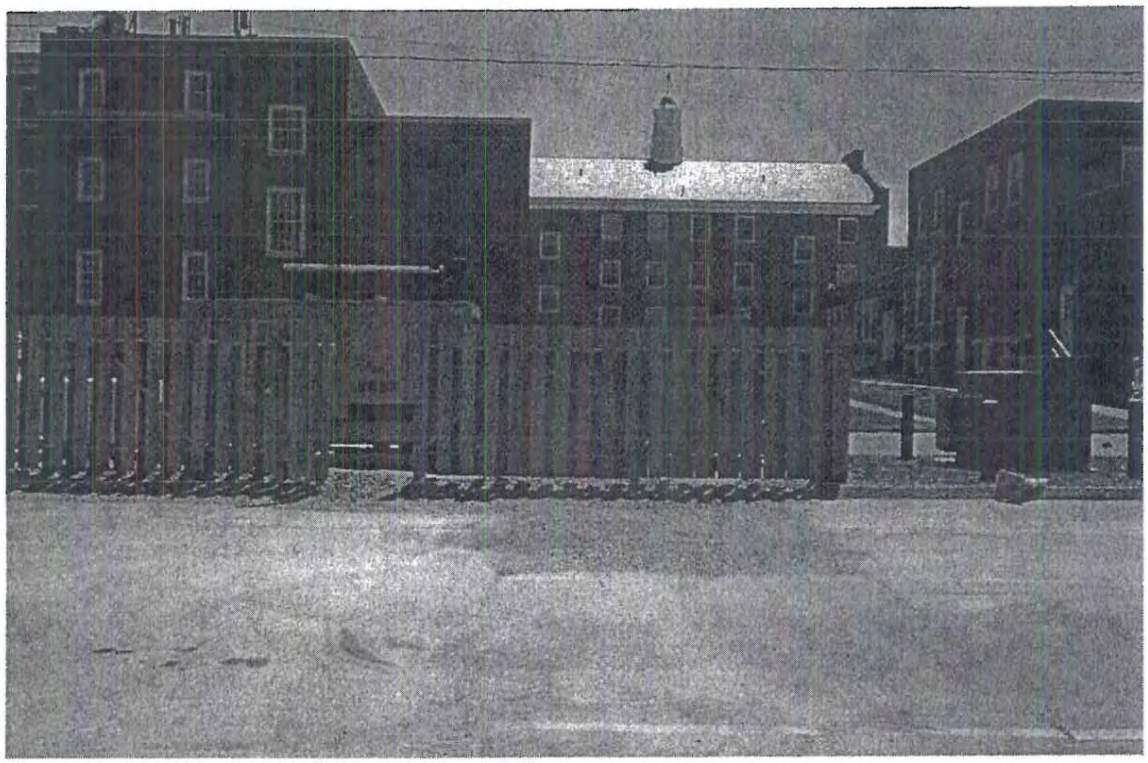
View of excavation area.

Compaction of Excavation Area

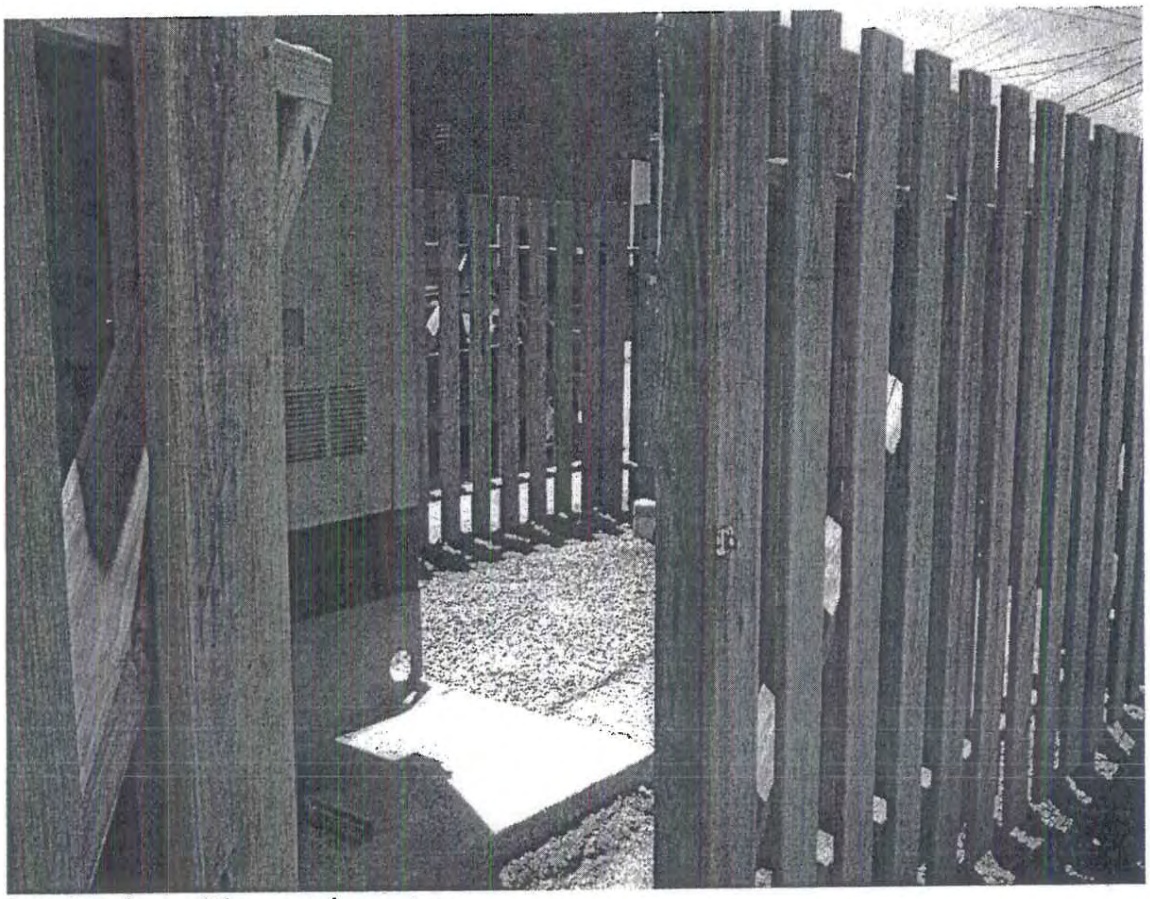
Backfill and Compaction of Excavated Area



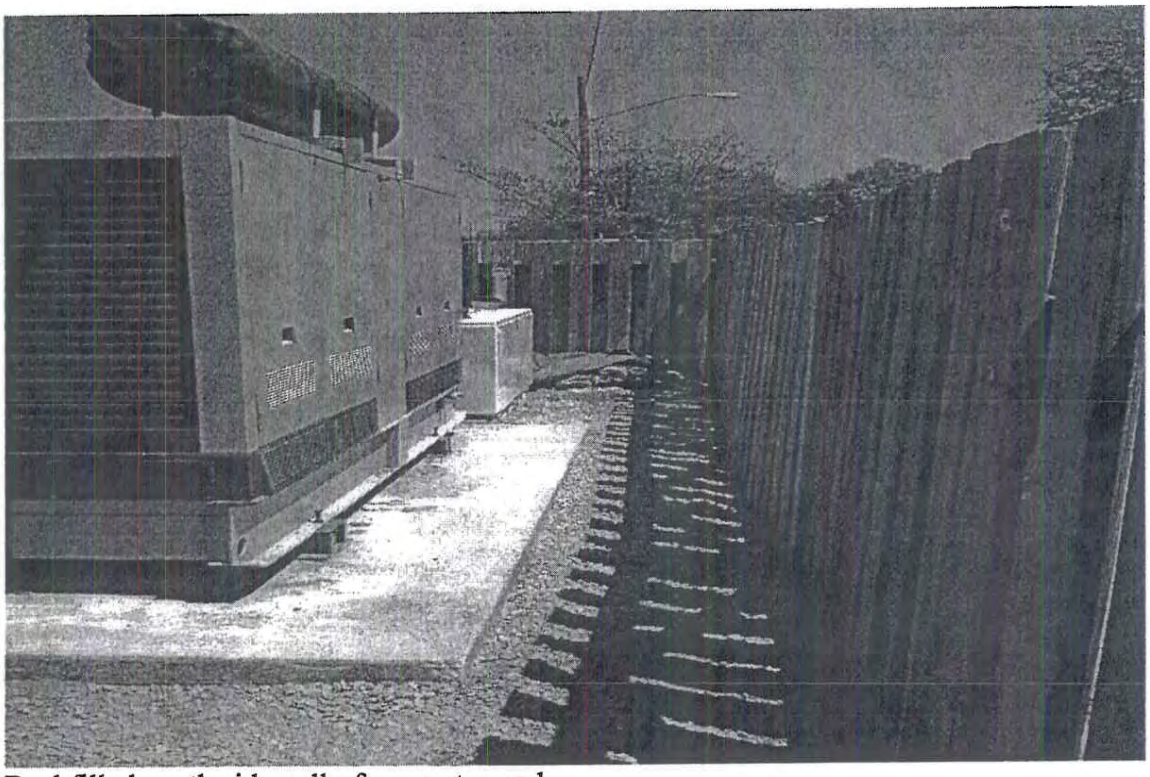
Covered stockpile pending proper disposal.



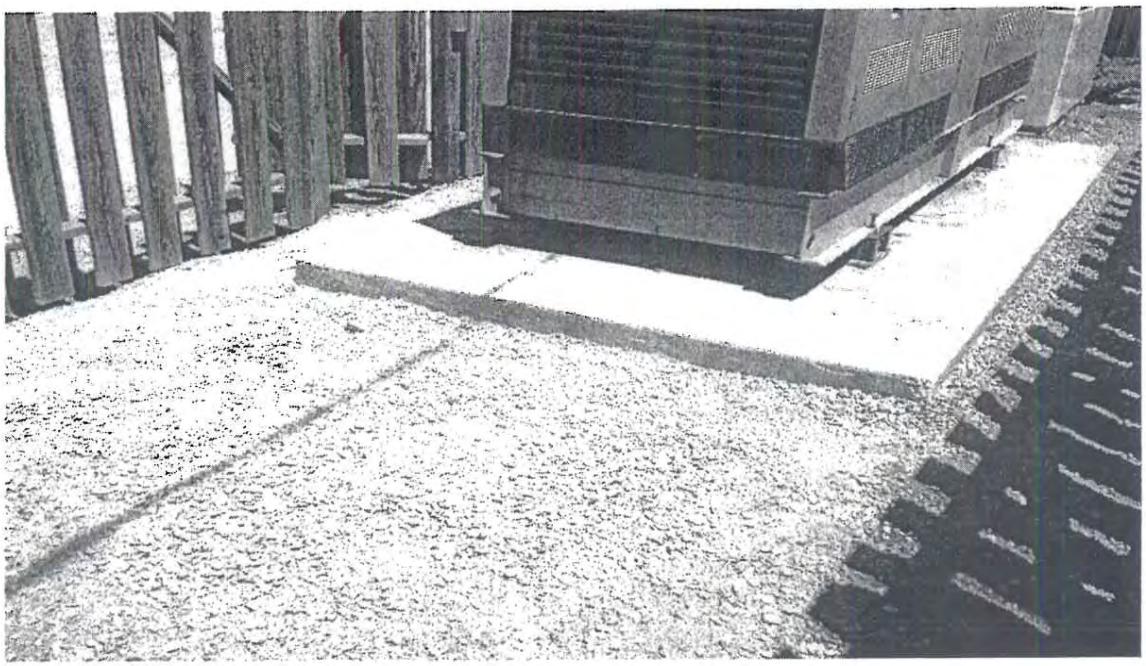
Fence restoration around generator containment area.



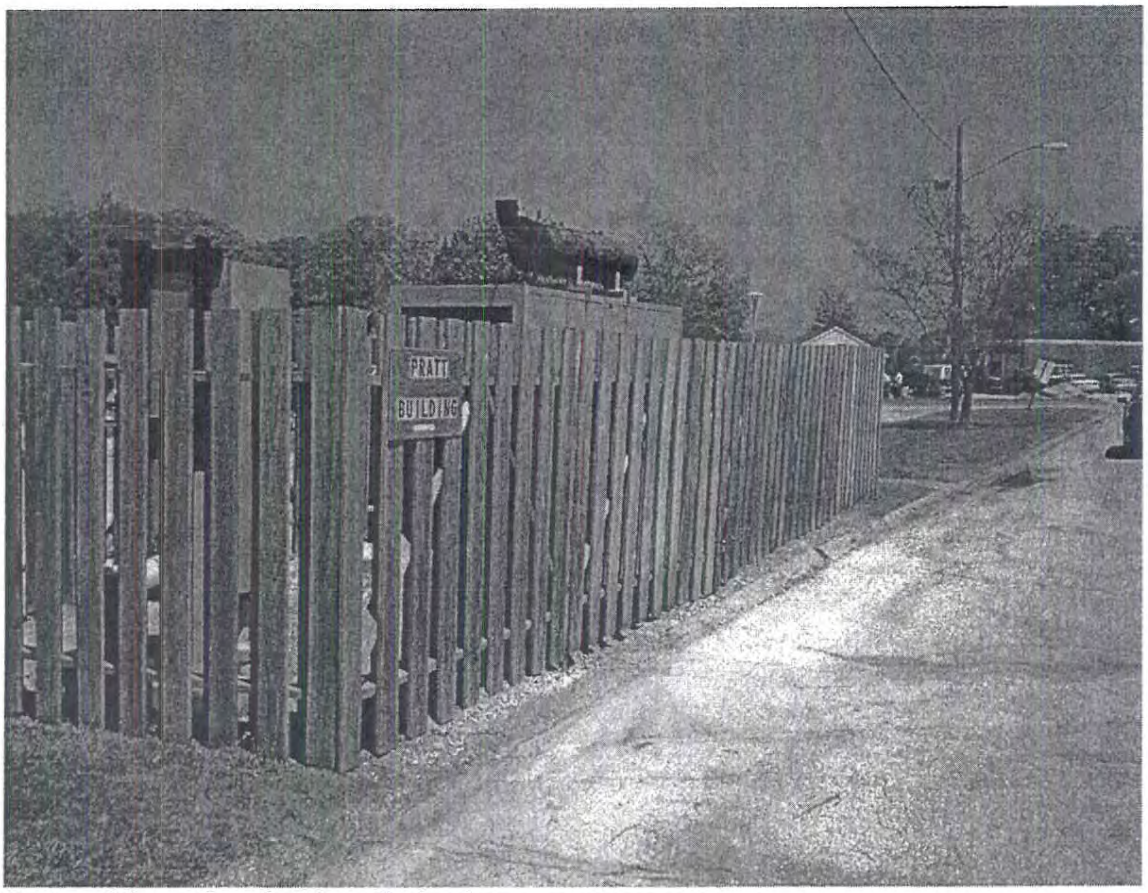
Interior view of the containment area.



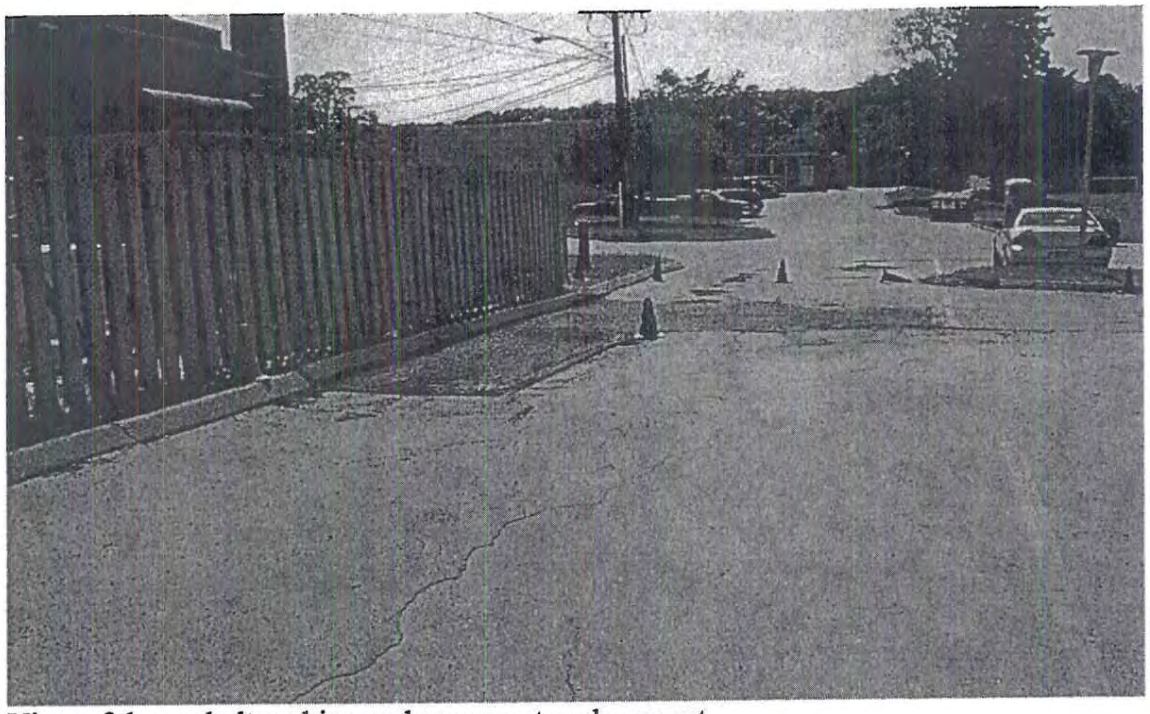
Backfilled south sidewall of generator pad.



Backfilled containment area.



Restored fence (south sidewall view).



View of the asphalt curbing and pavement replacement.

View of the asphalt curbing and pavement replacement and restored containment area.

6-16-05

hoenix Soil LLC * P.O.Box 1750 * Waterbury CT 06721

REGISTRATION NUMBER 05862

Date
6/15/05 10:09:28 AM

VEHICLE INFORMATION

Ticket Number
07904

Plate Number
V73860

Manifest
PSF27894

Stream
14055

Site Name
MYSTIC EDUCATIONAL CENTE

WEIGHT INFORMATION

Product ID
2

Gross Weight	Tare Weight	Net Weight
76720	29420	47300

Net Weight Tons
23.65

Phoenix Soil LLC * P.O.Box 1750 * Waterbury CT 06721

REGISTRATION NUMBER 05062

Date
5/15/05 11:13:46 AM

VEHICLE INFORMATION

Ticket Number	Plate Number
67506	33339A

Manifest	Stream	Site Name
PSF27707	14055	MYSTIC EDUCATIONAL CENTE

WEIGHT INFORMATION

Gross Weight	Tare Weight	Net Weight	Product ID
57960	28240	29820	

Net Weight Tons
14.81

AS

22 Ton

min

Hauling

Only

eas
LABORATORIES

June 02, 2005

AARON ENVIRONMENTAL SPECIALISTS
189 Atwater Street
Plantsville, CT 06479

Attention: Ms. Maureen Kerrigan

EAS Project Number: 05050413
Location Collected: Mystic Education Center, 240 Oral School Road, Mystic, CT

Copies of this report and the supporting computer stored data are retained in our files in the event they are required for future reference.

Any sample submitted to our laboratory will be retained for a maximum of thirty (30) days from receipt of the report.

All analytical data, unless otherwise specified, is reported on a wet weight (as received) basis.

Our laboratory is a multi-state Certified Public Health Laboratory, offering a full range of analytical services that include:

Water and Wastewater Analysis
Hazardous Waste Analysis (RCRA)
Full Priority Pollutant Analysis
Drinking Water Analysis

Gregory C. Lawrence
Laboratory Director

encl.

105 COMMERCIAL STREET WATERTOWN, CT 06795 PHONE (860) 274-5461 FAX (860) 945-0449

Recycled Paper

AARON ENVIRONMENTAL SPECIALISTS

Location Collected: Mystic Education Center, 240 Oral School Road, Mystic, CT
Date Sample Collected: 05/26/05
Sample Description: Northwest Corner Excavation 1
EAS Sample Number: 05050413-01
LIMS ID Number: AG06417
Date Sample Received: 05/27/05

Parameter	Data	Detection Limit	Units	Analysis Date
Base/Neutral Extraction, Solid	Completed			05/31/05
ETPH by GC/FID, Solid	55	20	mg/kg	06/01/05
GC/MS Base/Neutral SVs, Solid				
N-Nitrosodimethylamine	BDL	330	ug/kg	05/31/05
Pyridine	BDL	330	ug/kg	05/31/05
Bis(2-chloroethyl) ether	BDL	330	ug/kg	05/31/05
1,3-Dichlorobenzene	BDL	330	ug/kg	05/31/05
1,4-Dichlorobenzene	BDL	330	ug/kg	05/31/05
1,2-Dichlorobenzene	BDL	330	ug/kg	05/31/05
2,2'-Oxybis(1-Chloropropane)	BDL	330	ug/kg	05/31/05
N-Nitrosodi-n-propylamine	BDL	330	ug/kg	05/31/05
Hexachloroethane	BDL	330	ug/kg	05/31/05
Nitrobenzene	BDL	330	ug/kg	05/31/05
Isophorone	BDL	330	ug/kg	05/31/05
Bis(2-chloroethoxy) methane	BDL	330	ug/kg	05/31/05
1,2,4-Trichlorobenzene	BDL	330	ug/kg	05/31/05
Naphthalene	BDL	330	ug/kg	05/31/05
Hexachlorobutadiene	BDL	330	ug/kg	05/31/05
2-Methylnaphthalene	BDL	330	ug/kg	05/31/05
Hexachlorocyclopentadiene	BDL	330	ug/kg	05/31/05
2-Chloronaphthalene	BDL	330	ug/kg	05/31/05
Dimethyl phthalate	BDL	330	ug/kg	05/31/05
Acenaphthylene	BDL	330	ug/kg	05/31/05
2,6-Dinitrotoluene	BDL	330	ug/kg	05/31/05
Acenaphthene	BDL	330	ug/kg	05/31/05
2,4-Dinitrotoluene	BDL	330	ug/kg	05/31/05
Diethylphthalate	BDL	330	ug/kg	05/31/05
4-Chlorophenyl phenyl ether	BDL	330	ug/kg	05/31/05
Fluorene	BDL	330	ug/kg	05/31/05
N-Nitrosodiphenylamine	BDL	330	ug/kg	05/31/05
1,2-Diphenylhydrazine	BDL	330	ug/kg	05/31/05
4-Bromophenyl phenyl ether	BDL	330	ug/kg	05/31/05
Hexachlorobenzene	BDL	330	ug/kg	05/31/05
Phenanthrene	480	330	ug/kg	05/31/05
Anthracene	BDL	330	ug/kg	05/31/05
Di-n-butylphthalate	BDL	330	ug/kg	05/31/05

BDL = Below Detection Limit

AARON ENVIRONMENTAL SPECIALISTS

Location Collected: Mystic Education Center, 240 Oral School Road, Mystic, CT
Date Sample Collected: 05/26/05
Sample Description: Northwest Corner Excavation 1
EAS Sample Number: 05050413-01
LIMS ID Number: AG06417
Date Sample Received: 05/27/05

Parameter	Data	Detection Limit	Units	Analysis Date
Fluoranthene	1100	330	ug/kg	05/31/05
Benzidine	BDL	1600	ug/kg	05/31/05
Pyrene	1300	330	ug/kg	05/31/05
Butyl benzyl phthalate	BDL	330	ug/kg	05/31/05
3,3'-Dichlorobenzidine	BDL	330	ug/kg	05/31/05
Benzo(a)anthracene	830	330	ug/kg	05/31/05
Chrysene	830	330	ug/kg	05/31/05
Bis(2-ethylhexyl) phthalate	BDL	330	ug/kg	05/31/05
Di-n-octylphthalate	BDL	330	ug/kg	05/31/05
Benzo(b)fluoranthene	1100	330	ug/kg	05/31/05
Benzo(k)fluoranthene	360	330	ug/kg	05/31/05
Benzo(a)pyrene	830	330	ug/kg	05/31/05
Indeno(1,2,3-cd)pyrene	BDL	330	ug/kg	05/31/05
Dibenz(a,h)anthracene	BDL	330	ug/kg	05/31/05
Benzo(g,h,i)perylene	BDL	330	ug/kg	05/31/05
TPH Extraction, Solid	Completed			05/31/05
Volatile Organic Compounds, Solid				
Dichlorodifluoromethane	BDL	10	ug/kg	05/31/05
Chloromethane	BDL	10	ug/kg	05/31/05
Vinyl Chloride	BDL	10	ug/kg	05/31/05
Bromomethane	BDL	10	ug/kg	05/31/05
Chloroethane	BDL	10	ug/kg	05/31/05
Trichlorofluoromethane	BDL	10	ug/kg	05/31/05
Acetone	BDL	25	ug/kg	05/31/05
1,1-Dichloroethene	BDL	10	ug/kg	05/31/05
Methylene Chloride	BDL	10	ug/kg	05/31/05
trans-1,2-Dichloroethene	BDL	10	ug/kg	05/31/05
Methyl-tert-butyl-ether	BDL	10	ug/kg	05/31/05
1,1-Dichloroethane	BDL	10	ug/kg	05/31/05
2-Butanone	BDL	10	ug/kg	05/31/05
cis-1,2-Dichloroethene	BDL	10	ug/kg	05/31/05
2,2-Dichloropropane	BDL	10	ug/kg	05/31/05
Chloroform	BDL	10	ug/kg	05/31/05
Bromochloromethane	BDL	10	ug/kg	05/31/05
1,1,1-Trichloroethane	BDL	10	ug/kg	05/31/05
1,1-Dichloropropene	BDL	10	ug/kg	05/31/05

BDL = Below Detection Limit

AARON ENVIRONMENTAL SPECIALISTS

Location Collected: Mystic Education Center, 240 Oral School Road, Mystic, CT
Date Sample Collected: 05/26/05
Sample Description: Northwest Corner Excavation 1
EAS Sample Number: 05050413-01
LIMS ID Number: AG06417
Date Sample Received: 05/27/05

Parameter	Data	Detection Limit	Units	Analysis Date
1,2-Dichloroethane	BDL	10	ug/kg	05/31/05
Carbon Tetrachloride	BDL	10	ug/kg	05/31/05
Benzene	BDL	10	ug/kg	05/31/05
Trichloroethene	BDL	10	ug/kg	05/31/05
1,2-Dichloropropane	BDL	10	ug/kg	05/31/05
Dibromomethane	BDL	10	ug/kg	05/31/05
Bromodichloromethane	BDL	10	ug/kg	05/31/05
4-Methyl-2-Pentanone	BDL	10	ug/kg	05/31/05
cis-1,3-Dichloropropene	BDL	10	ug/kg	05/31/05
Toluene	BDL	10	ug/kg	05/31/05
trans-1,3-Dichloropropene	BDL	10	ug/kg	05/31/05
1,1,2-Trichloroethane	BDL	10	ug/kg	05/31/05
2-Hexanone	BDL	10	ug/kg	05/31/05
1,3-Dichloropropane	BDL	10	ug/kg	05/31/05
Dibromochloromethane	BDL	10	ug/kg	05/31/05
Tetrachloroethylene	BDL	10	ug/kg	05/31/05
1,2-Dibromoethane	BDL	10	ug/kg	05/31/05
Chlorobenzene	BDL	10	ug/kg	05/31/05
1,1,1,2-Tetrachloroethane	BDL	10	ug/kg	05/31/05
Ethylbenzene	BDL	10	ug/kg	05/31/05
m/p-Xylene	BDL	10	ug/kg	05/31/05
Styrene	BDL	10	ug/kg	05/31/05
o-Xylene	BDL	10	ug/kg	05/31/05
Bromoform	BDL	10	ug/kg	05/31/05
1,1,2,2-Tetrachloroethane	BDL	10	ug/kg	05/31/05
Isopropylbenzene	BDL	10	ug/kg	05/31/05
1,2,3-Trichloropropane	BDL	10	ug/kg	05/31/05
Bromobenzene	BDL	10	ug/kg	05/31/05
n-Propylbenzene	BDL	10	ug/kg	05/31/05
2-Chlorotoluene	BDL	10	ug/kg	05/31/05
4-Chlorotoluene	BDL	10	ug/kg	05/31/05
1,3,5-Trimethylbenzene	BDL	10	ug/kg	05/31/05
tert-Butylbenzene	BDL	10	ug/kg	05/31/05
1,2,4-Trimethylbenzene	BDL	10	ug/kg	05/31/05
sec-Butylbenzene	BDL	10	ug/kg	05/31/05
1,3-Dichlorobenzene	BDL	10	ug/kg	05/31/05

BDL = Below Detection Limit

AARON ENVIRONMENTAL SPECIALISTS

Location Collected: Mystic Education Center, 240 Oral School Road, Mystic, CT
Date Sample Collected: 05/26/05
Sample Description: Northwest Corner Excavation 1
EAS Sample Number: 05050413-01
LIMS ID Number: AG06417
Date Sample Received: 05/27/05

Parameter	Data	Detection Limit	Units	Analysis Date
1,4-Dichlorobenzene	BDL	10	ug/kg	05/31/05
p-Isopropyltoluene	BDL	10	ug/kg	05/31/05
1,2-Dichlorobenzene	BDL	10	ug/kg	05/31/05
n-Butylbenzene	BDL	10	ug/kg	05/31/05
1,2-Dibromo-3-Chloropropane	BDL	10	ug/kg	05/31/05
1,2,4-Trichlorobenzene	BDL	10	ug/kg	05/31/05
Naphthalene	BDL	10	ug/kg	05/31/05
Hexachlorobutadiene	BDL	10	ug/kg	05/31/05
1,2,3-Trichlorobenzene	BDL	10	ug/kg	05/31/05

BDL = Below Detection Limit

AARON ENVIRONMENTAL SPECIALISTS

Location Collected: Mystic Education Center, 240 Oral School Road, Mystic, CT
Date Sample Collected: 05/26/05
Sample Description: West Sidewall
EAS Sample Number: 05050413-02
LIMS ID Number: AG06418
Date Sample Received: 05/27/05

Parameter	Data	Detection Limit	Units	Analysis Date
Base/Neutral Extraction, Solid	Completed			05/31/05
ETPH by GC/FID, Solid	BDL	20	mg/kg	06/01/05
GC/MS Base/Neutral SVs, Solid				
N-Nitrosodimethylamine	BDL	330	ug/kg	05/31/05
Pyridine	BDL	330	ug/kg	05/31/05
Bis(2-chloroethyl) ether	BDL	330	ug/kg	05/31/05
1,3-Dichlorobenzene	BDL	330	ug/kg	05/31/05
1,4-Dichlorobenzene	BDL	330	ug/kg	05/31/05
1,2-Dichlorobenzene	BDL	330	ug/kg	05/31/05
2,2'-Oxybis(1-Chloropropane)	BDL	330	ug/kg	05/31/05
N-Nitrosodi-n-propylamine	BDL	330	ug/kg	05/31/05
Hexachloroethane	BDL	330	ug/kg	05/31/05
Nitrobenzene	BDL	330	ug/kg	05/31/05
Isophorone	BDL	330	ug/kg	05/31/05
Bis(2-chloroethoxy) methane	BDL	330	ug/kg	05/31/05
1,2,4-Trichlorobenzene	BDL	330	ug/kg	05/31/05
Naphthalene	BDL	330	ug/kg	05/31/05
Hexachlorobutadiene	BDL	330	ug/kg	05/31/05
2-Methylnaphthalene	BDL	330	ug/kg	05/31/05
Hexachlorocyclopentadiene	BDL	330	ug/kg	05/31/05
2-Chloronaphthalene	BDL	330	ug/kg	05/31/05
Dimethyl phthalate	BDL	330	ug/kg	05/31/05
Acenaphthylene	BDL	330	ug/kg	05/31/05
2,6-Dinitrotoluene	BDL	330	ug/kg	05/31/05
Acenaphthene	BDL	330	ug/kg	05/31/05
2,4-Dinitrotoluene	BDL	330	ug/kg	05/31/05
Diethylphthalate	BDL	330	ug/kg	05/31/05
4-Chlorophenyl phenyl ether	BDL	330	ug/kg	05/31/05
Fluorene	BDL	330	ug/kg	05/31/05
N-Nitrosodiphenylamine	BDL	330	ug/kg	05/31/05
1,2-Diphenylhydrazine	BDL	330	ug/kg	05/31/05
4-Bromophenyl phenyl ether	BDL	330	ug/kg	05/31/05
Hexachlorobenzene	BDL	330	ug/kg	05/31/05
Phenanthrene	BDL	330	ug/kg	05/31/05
Anthracene	BDL	330	ug/kg	05/31/05
Di-n-butylphthalate	BDL	330	ug/kg	05/31/05

BDL = Below Detection Limit

AARON ENVIRONMENTAL SPECIALISTS

Location Collected: Mystic Education Center, 240 Oral School Road, Mystic, CT
Date Sample Collected: 05/26/05
Sample Description: West Sidewall
EAS Sample Number: 05050413-02
LIMS ID Number: AG06418
Date Sample Received: 05/27/05

Parameter	Data	Detection Limit	Units	Analysis Date
Fluoranthene	BDL	330	ug/kg	05/31/05
Benzidine	BDL	1600	ug/kg	05/31/05
Pyrene	BDL	330	ug/kg	05/31/05
Butyl benzyl phthalate	BDL	330	ug/kg	05/31/05
3,3'-Dichlorobenzidine	BDL	330	ug/kg	05/31/05
Benzo(a)anthracene	BDL	330	ug/kg	05/31/05
Chrysene	BDL	330	ug/kg	05/31/05
Bis(2-ethylhexyl) phthalate	BDL	330	ug/kg	05/31/05
Di-n-octylphthalate	BDL	330	ug/kg	05/31/05
Benzo(b)fluoranthene	BDL	330	ug/kg	05/31/05
Benzo(k)fluoranthene	BDL	330	ug/kg	05/31/05
Benzo(a)pyrene	BDL	330	ug/kg	05/31/05
Indeno(1,2,3-cd)pyrene	BDL	330	ug/kg	05/31/05
Dibenz(a,h)anthracene	BDL	330	ug/kg	05/31/05
Benzo(g,h,i)perylene	BDL	330	ug/kg	05/31/05
TPH Extraction, Solid	Completed			05/31/05
Volatile Organic Compounds, Solid				
Dichlorodifluoromethane	BDL	10	ug/kg	05/31/05
Chloromethane	BDL	10	ug/kg	05/31/05
Vinyl Chloride	BDL	10	ug/kg	05/31/05
Bromomethane	BDL	10	ug/kg	05/31/05
Chloroethane	BDL	10	ug/kg	05/31/05
Trichlorofluoromethane	BDL	10	ug/kg	05/31/05
Acetone	BDL	25	ug/kg	05/31/05
1,1-Dichloroethene	BDL	10	ug/kg	05/31/05
Methylene Chloride	BDL	10	ug/kg	05/31/05
trans-1,2-Dichloroethene	BDL	10	ug/kg	05/31/05
Methyl-tert-butyl-ether	BDL	10	ug/kg	05/31/05
1,1-Dichloroethane	BDL	10	ug/kg	05/31/05
2-Butanone	BDL	10	ug/kg	05/31/05
cis-1,2-Dichloroethene	BDL	10	ug/kg	05/31/05
2,2-Dichloropropane	BDL	10	ug/kg	05/31/05
Chloroform	BDL	10	ug/kg	05/31/05
Bromochloromethane	BDL	10	ug/kg	05/31/05
1,1,1-Trichloroethane	BDL	10	ug/kg	05/31/05
1,1-Dichloropropene	BDL	10	ug/kg	05/31/05

BDL = Below Detection Limit

AARON ENVIRONMENTAL SPECIALISTS

Location Collected: Mystic Education Center, 240 Oral School Road, Mystic, CT
Date Sample Collected: 05/26/05
Sample Description: West Sidewall
EAS Sample Number: 05050413-02
LIMS ID Number: AG06418
Date Sample Received: 05/27/05

Parameter	Data	Detection Limit	Units	Analysis Date
1,2-Dichloroethane	BDL	10	ug/kg	05/31/05
Carbon Tetrachloride	BDL	10	ug/kg	05/31/05
Benzene	BDL	10	ug/kg	05/31/05
Trichloroethene	BDL	10	ug/kg	05/31/05
1,2-Dichloropropane	BDL	10	ug/kg	05/31/05
Dibromomethane	BDL	10	ug/kg	05/31/05
Bromodichloromethane	BDL	10	ug/kg	05/31/05
4-Methyl-2-Pentanone	BDL	10	ug/kg	05/31/05
cis-1,3-Dichloropropene	BDL	10	ug/kg	05/31/05
Toluene	BDL	10	ug/kg	05/31/05
trans-1,3-Dichloropropene	BDL	10	ug/kg	05/31/05
1,1,2-Trichloroethane	BDL	10	ug/kg	05/31/05
2-Hexanone	BDL	10	ug/kg	05/31/05
1,3-Dichloropropane	BDL	10	ug/kg	05/31/05
Dibromochloromethane	BDL	10	ug/kg	05/31/05
Tetrachloroethylene	BDL	10	ug/kg	05/31/05
1,2-Dibromoethane	BDL	10	ug/kg	05/31/05
Chlorobenzene	BDL	10	ug/kg	05/31/05
1,1,1,2-Tetrachloroethane	BDL	10	ug/kg	05/31/05
Ethylbenzene	BDL	10	ug/kg	05/31/05
m/p-Xylene	BDL	10	ug/kg	05/31/05
Styrene	BDL	10	ug/kg	05/31/05
o-Xylene	BDL	10	ug/kg	05/31/05
Bromoform	BDL	10	ug/kg	05/31/05
1,1,2,2-Tetrachloroethane	BDL	10	ug/kg	05/31/05
Isopropylbenzene	BDL	10	ug/kg	05/31/05
1,2,3-Trichloropropane	BDL	10	ug/kg	05/31/05
Bromobenzene	BDL	10	ug/kg	05/31/05
n-Propylbenzene	BDL	10	ug/kg	05/31/05
2-Chlorotoluene	BDL	10	ug/kg	05/31/05
4-Chlorotoluene	BDL	10	ug/kg	05/31/05
1,3,5-Trimethylbenzene	BDL	10	ug/kg	05/31/05
tert-Butylbenzene	BDL	10	ug/kg	05/31/05
1,2,4-Trimethylbenzene	BDL	10	ug/kg	05/31/05
sec-Butylbenzene	BDL	10	ug/kg	05/31/05
1,3-Dichlorobenzene	BDL	10	ug/kg	05/31/05

BDL = Below Detection Limit

AARON ENVIRONMENTAL SPECIALISTS

Location Collected: Mystic Education Center, 240 Oral School Road, Mystic, CT
Date Sample Collected: 05/26/05
Sample Description: West Sidewall
EAS Sample Number: 05050413-02
LIMS ID Number: AG06418
Date Sample Received: 05/27/05

Parameter	Data	Detection Limit	Units	Analysis Date
1,4-Dichlorobenzene	BDL	10	ug/kg	05/31/05
p-Isopropyltoluene	BDL	10	ug/kg	05/31/05
1,2-Dichlorobenzene	BDL	10	ug/kg	05/31/05
n-Butylbenzene	BDL	10	ug/kg	05/31/05
1,2-Dibromo-3-Chloropropane	BDL	10	ug/kg	05/31/05
1,2,4-Trichlorobenzene	BDL	10	ug/kg	05/31/05
Naphthalene	BDL	10	ug/kg	05/31/05
Hexachlorobutadiene	BDL	10	ug/kg	05/31/05
1,2,3-Trichlorobenzene	BDL	10	ug/kg	05/31/05

BDL = Below Detection Limit

AARON ENVIRONMENTAL SPECIALISTS

Location Collected: Mystic Education Center, 240 Oral School Road, Mystic, CT
Date Sample Collected: 05/26/05
Sample Description: Northwest Corner of AST
EAS Sample Number: 05050413-03
LIMS ID Number: AG06419
Date Sample Received: 05/27/05

Parameter	Data	Detection Limit	Units	Analysis Date
Base/Neutral Extraction, Solid	Completed			05/31/05
ETPH by GC/FID, Solid	410	20	mg/kg	06/01/05
GC/MS Base/Neutral SVs, Solid				
N-Nitrosodimethylamine	BDL	330	ug/kg	05/31/05
Pyridine	BDL	330	ug/kg	05/31/05
Bis(2-chloroethyl) ether	BDL	330	ug/kg	05/31/05
1,3-Dichlorobenzene	BDL	330	ug/kg	05/31/05
1,4-Dichlorobenzene	BDL	330	ug/kg	05/31/05
1,2-Dichlorobenzene	BDL	330	ug/kg	05/31/05
2,2'-Oxybis(1-Chloropropane)	BDL	330	ug/kg	05/31/05
N-Nitrosodi-n-propylamine	BDL	330	ug/kg	05/31/05
Hexachloroethane	BDL	330	ug/kg	05/31/05
Nitrobenzene	BDL	330	ug/kg	05/31/05
Isophorone	BDL	330	ug/kg	05/31/05
Bis(2-chloroethoxy) methane	BDL	330	ug/kg	05/31/05
1,2,4-Trichlorobenzene	BDL	330	ug/kg	05/31/05
Naphthalene	BDL	330	ug/kg	05/31/05
Hexachlorobutadiene	BDL	330	ug/kg	05/31/05
2-Methylnaphthalene	BDL	330	ug/kg	05/31/05
Hexachlorocyclopentadiene	BDL	330	ug/kg	05/31/05
2-Chloronaphthalene	BDL	330	ug/kg	05/31/05
Dimethyl phthalate	BDL	330	ug/kg	05/31/05
Acenaphthylene	BDL	330	ug/kg	05/31/05
2,6-Dinitrotoluene	BDL	330	ug/kg	05/31/05
Acenaphthene	BDL	330	ug/kg	05/31/05
2,4-Dinitrotoluene	BDL	330	ug/kg	05/31/05
Diethylphthalate	BDL	330	ug/kg	05/31/05
4-Chlorophenyl phenyl ether	BDL	330	ug/kg	05/31/05
Fluorene	BDL	330	ug/kg	05/31/05
N-Nitrosodiphenylamine	BDL	330	ug/kg	05/31/05
1,2-Diphenylhydrazine	BDL	330	ug/kg	05/31/05
4-Bromophenyl phenyl ether	BDL	330	ug/kg	05/31/05
Hexachlorobenzene	BDL	330	ug/kg	05/31/05
Phenanthrene	1100	330	ug/kg	05/31/05
Anthracene	BDL	330	ug/kg	05/31/05
Di-n-butylphthalate	BDL	330	ug/kg	05/31/05

BDL = Below Detection Limit

AARON ENVIRONMENTAL SPECIALISTS

Location Collected: Mystic Education Center, 240 Oral School Road, Mystic, CT
Date Sample Collected: 05/26/05
Sample Description: Northwest Corner of AST
EAS Sample Number: 05050413-03
LIMS ID Number: AG06419
Date Sample Received: 05/27/05

Parameter	Data	Detection Limit	Units	Analysis Date
Fluoranthene	990	330	ug/kg	05/31/05
Benzidine	BDL	1600	ug/kg	05/31/05
Pyrene	960	330	ug/kg	05/31/05
Butyl benzyl phthalate	BDL	330	ug/kg	05/31/05
3,3'-Dichlorobenzidine	BDL	330	ug/kg	05/31/05
Benzo(a)anthracene	490	330	ug/kg	05/31/05
Chrysene	550	330	ug/kg	05/31/05
Bis(2-ethylhexyl) phthalate	BDL	330	ug/kg	05/31/05
Di-n-octylphthalate	BDL	330	ug/kg	05/31/05
Benzo(b)fluoranthene	580	330	ug/kg	05/31/05
Benzo(k)fluoranthene	BDL	330	ug/kg	05/31/05
Benzo(a)pyrene	370	330	ug/kg	05/31/05
Indeno(1,2,3-cd)pyrene	BDL	330	ug/kg	05/31/05
Dibenz(a,h)anthracene	BDL	330	ug/kg	05/31/05
Benzo(g,h,i)perylene	BDL	330	ug/kg	05/31/05
TPH Extraction, Solid	Completed			05/31/05
Volatile Organic Compounds, Solid				
Dichlorodifluoromethane	BDL	10	ug/kg	05/31/05
Chloromethane	BDL	10	ug/kg	05/31/05
Vinyl Chloride	BDL	10	ug/kg	05/31/05
Bromomethane	BDL	10	ug/kg	05/31/05
Chloroethane	BDL	10	ug/kg	05/31/05
Trichlorofluoromethane	BDL	10	ug/kg	05/31/05
Acetone	BDL	25	ug/kg	05/31/05
1,1-Dichloroethene	BDL	10	ug/kg	05/31/05
Methylene Chloride	BDL	10	ug/kg	05/31/05
trans-1,2-Dichloroethene	BDL	10	ug/kg	05/31/05
Methyl-tert-butyl-ether	BDL	10	ug/kg	05/31/05
1,1-Dichloroethane	BDL	10	ug/kg	05/31/05
2-Butanone	BDL	10	ug/kg	05/31/05
cis-1,2-Dichloroethene	BDL	10	ug/kg	05/31/05
2,2-Dichloropropane	BDL	10	ug/kg	05/31/05
Chloroform	BDL	10	ug/kg	05/31/05
Bromochloromethane	BDL	10	ug/kg	05/31/05
1,1,1-Trichloroethane	BDL	10	ug/kg	05/31/05
1,1-Dichloropropene	BDL	10	ug/kg	05/31/05

BDL = Below Detection Limit

AARON ENVIRONMENTAL SPECIALISTS

Location Collected: Mystic Education Center, 240 Oral School Road, Mystic, CT
Date Sample Collected: 05/26/05
Sample Description: Northwest Corner of AST
EAS Sample Number: 05050413-03
LIMS ID Number: AG06419
Date Sample Received: 05/27/05

Parameter	Data	Detection Limit	Units	Analysis Date
1,2-Dichloroethane	BDL	10	ug/kg	05/31/05
Carbon Tetrachloride	BDL	10	ug/kg	05/31/05
Benzene	BDL	10	ug/kg	05/31/05
Trichloroethene	BDL	10	ug/kg	05/31/05
1,2-Dichloropropane	BDL	10	ug/kg	05/31/05
Dibromomethane	BDL	10	ug/kg	05/31/05
Bromodichloromethane	BDL	10	ug/kg	05/31/05
4-Methyl-2-Pentanone	BDL	10	ug/kg	05/31/05
cis-1,3-Dichloropropene	BDL	10	ug/kg	05/31/05
Toluene	BDL	10	ug/kg	05/31/05
trans-1,3-Dichloropropene	BDL	10	ug/kg	05/31/05
1,1,2-Trichloroethane	BDL	10	ug/kg	05/31/05
2-Hexanone	BDL	10	ug/kg	05/31/05
1,3-Dichloropropane	BDL	10	ug/kg	05/31/05
Dibromochloromethane	BDL	10	ug/kg	05/31/05
Tetrachloroethylene	BDL	10	ug/kg	05/31/05
1,2-Dibromoethane	BDL	10	ug/kg	05/31/05
Chlorobenzene	BDL	10	ug/kg	05/31/05
1,1,1,2-Tetrachloroethane	BDL	10	ug/kg	05/31/05
Ethylbenzene	BDL	10	ug/kg	05/31/05
m/p-Xylene	BDL	10	ug/kg	05/31/05
Styrene	BDL	10	ug/kg	05/31/05
o-Xylene	34	10	ug/kg	05/31/05
Bromoform	BDL	10	ug/kg	05/31/05
1,1,2,2-Tetrachloroethane	BDL	10	ug/kg	05/31/05
Isopropylbenzene	BDL	10	ug/kg	05/31/05
1,2,3-Trichloropropane	BDL	10	ug/kg	05/31/05
Bromobenzene	BDL	10	ug/kg	05/31/05
n-Propylbenzene	BDL	10	ug/kg	05/31/05
2-Chlorotoluene	BDL	10	ug/kg	05/31/05
4-Chlorotoluene	BDL	10	ug/kg	05/31/05
1,3,5-Trimethylbenzene	53	10	ug/kg	05/31/05
tert-Butylbenzene	BDL	10	ug/kg	05/31/05
1,2,4-Trimethylbenzene	BDL	10	ug/kg	05/31/05
sec-Butylbenzene	14	10	ug/kg	05/31/05
1,3-Dichlorobenzene	BDL	10	ug/kg	05/31/05

BDL = Below Detection Limit

AARON ENVIRONMENTAL SPECIALISTS

Location Collected: Mystic Education Center, 240 Oral School Road, Mystic, CT
Date Sample Collected: 05/26/05
Sample Description: Northwest Corner of AST
EAS Sample Number: 05050413-03
LIMS ID Number: AG06419
Date Sample Received: 05/27/05

Parameter	Data	Detection Limit	Units	Analysis Date
1,4-Dichlorobenzene	BDL	10	ug/kg	05/31/05
p-Isopropyltoluene	36	10	ug/kg	05/31/05
1,2-Dichlorobenzene	BDL	10	ug/kg	05/31/05
n-Butylbenzene	14	10	ug/kg	05/31/05
1,2-Dibromo-3-Chloropropane	BDL	10	ug/kg	05/31/05
1,2,4-Trichlorobenzene	BDL	10	ug/kg	05/31/05
Naphthalene	BDL	10	ug/kg	05/31/05
Hexachlorobutadiene	BDL	10	ug/kg	05/31/05
1,2,3-Trichlorobenzene	BDL	10	ug/kg	05/31/05

BDL = Below Detection Limit

AARON ENVIRONMENTAL SPECIALISTS

Location Collected: Mystic Education Center, 240 Oral School Road, Mystic, CT
Date Sample Collected: 05/27/05
Sample Description: Northwest Corner Excavation 2
EAS Sample Number: 05050413-04
LIMS ID Number: AG06420
Date Sample Received: 05/27/05

Parameter	Data	Detection Limit	Units	Analysis Date
Base/Neutral Extraction, Solid	Completed			05/31/05
ETPH by GC/FID, Solid	81	20	mg/kg	06/01/05
GC/MS Base/Neutral SVs, Solid				
N-Nitrosodimethylamine	BDL	330	ug/kg	05/31/05
Pyridine	BDL	330	ug/kg	05/31/05
Bis(2-chloroethyl) ether	BDL	330	ug/kg	05/31/05
1,3-Dichlorobenzene	BDL	330	ug/kg	05/31/05
1,4-Dichlorobenzene	BDL	330	ug/kg	05/31/05
1,2-Dichlorobenzene	BDL	330	ug/kg	05/31/05
2,2'-Oxybis(1-Chloropropane)	BDL	330	ug/kg	05/31/05
N-Nitrosodi-n-propylamine	BDL	330	ug/kg	05/31/05
Hexachloroethane	BDL	330	ug/kg	05/31/05
Nitrobenzene	BDL	330	ug/kg	05/31/05
Isophorone	BDL	330	ug/kg	05/31/05
Bis(2-chloroethoxy) methane	BDL	330	ug/kg	05/31/05
1,2,4-Trichlorobenzene	BDL	330	ug/kg	05/31/05
Naphthalene	BDL	330	ug/kg	05/31/05
Hexachlorobutadiene	BDL	330	ug/kg	05/31/05
2-Methylnaphthalene	BDL	330	ug/kg	05/31/05
Hexachlorocyclopentadiene	BDL	330	ug/kg	05/31/05
2-Chloronaphthalene	BDL	330	ug/kg	05/31/05
Dimethyl phthalate	BDL	330	ug/kg	05/31/05
Acenaphthylene	BDL	330	ug/kg	05/31/05
2,6-Dinitrotoluene	BDL	330	ug/kg	05/31/05
Acenaphthene	BDL	330	ug/kg	05/31/05
2,4-Dinitrotoluene	BDL	330	ug/kg	05/31/05
Diethylphthalate	BDL	330	ug/kg	05/31/05
4-Chlorophenyl phenyl ether	BDL	330	ug/kg	05/31/05
Fluorene	BDL	330	ug/kg	05/31/05
N-Nitrosodiphenylamine	BDL	330	ug/kg	05/31/05
1,2-Diphenylhydrazine	BDL	330	ug/kg	05/31/05
4-Bromophenyl phenyl ether	BDL	330	ug/kg	05/31/05
Hexachlorobenzene	BDL	330	ug/kg	05/31/05
Phenanthrene	750	330	ug/kg	05/31/05
Anthracene	BDL	330	ug/kg	05/31/05
Di-n-butylphthalate	BDL	330	ug/kg	05/31/05

BDL = Below Detection Limit

AARON ENVIRONMENTAL SPECIALISTS

Location Collected: Mystic Education Center, 240 Oral School Road, Mystic, CT
Date Sample Collected: 05/27/05
Sample Description: Northwest Corner Excavation 2
EAS Sample Number: 05050413-04
LIMS ID Number: AG06420
Date Sample Received: 05/27/05

Parameter	Data	Detection Limit	Units	Analysis Date
Fluoranthene	1300	330	ug/kg	05/31/05
Benzidine	BDL	1600	ug/kg	05/31/05
Pyrene	1200	330	ug/kg	05/31/05
Butyl benzyl phthalate	BDL	330	ug/kg	05/31/05
3,3'-Dichlorobenzidine	BDL	330	ug/kg	05/31/05
Benzo(a)anthracene	720	330	ug/kg	05/31/05
Chrysene	740	330	ug/kg	05/31/05
Bis(2-ethylhexyl) phthalate	BDL	330	ug/kg	05/31/05
Di-n-octylphthalate	BDL	330	ug/kg	05/31/05
Benzo(b)fluoranthene	840	330	ug/kg	05/31/05
Benzo(k)fluoranthene	BDL	330	ug/kg	05/31/05
Benzo(a)pyrene	630	330	ug/kg	05/31/05
Indeno(1,2,3-cd)pyrene	BDL	330	ug/kg	05/31/05
Dibenz(a,h)anthracene	BDL	330	ug/kg	05/31/05
Benzo(g,h,i)perylene	BDL	330	ug/kg	05/31/05
TPH Extraction, Solid	Completed			05/31/05
Volatile Organic Compounds, Solid				
Dichlorodifluoromethane	BDL	10	ug/kg	05/31/05
Chloromethane	BDL	10	ug/kg	05/31/05
Vinyl Chloride	BDL	10	ug/kg	05/31/05
Bromomethane	BDL	10	ug/kg	05/31/05
Chloroethane	BDL	10	ug/kg	05/31/05
Trichlorofluoromethane	BDL	10	ug/kg	05/31/05
Acetone	BDL	25	ug/kg	05/31/05
1,1-Dichloroethene	BDL	10	ug/kg	05/31/05
Methylene Chloride	BDL	10	ug/kg	05/31/05
trans-1,2-Dichloroethene	BDL	10	ug/kg	05/31/05
Methyl-tert-butyl-ether	BDL	10	ug/kg	05/31/05
1,1-Dichloroethane	BDL	10	ug/kg	05/31/05
2-Butanone	BDL	10	ug/kg	05/31/05
cis-1,2-Dichloroethene	BDL	10	ug/kg	05/31/05
2,2-Dichloropropane	BDL	10	ug/kg	05/31/05
Chloroform	BDL	10	ug/kg	05/31/05
Bromochloromethane	BDL	10	ug/kg	05/31/05
1,1,1-Trichloroethane	BDL	10	ug/kg	05/31/05
1,1-Dichloropropene	BDL	10	ug/kg	05/31/05

BDL = Below Detection Limit

AARON ENVIRONMENTAL SPECIALISTS

Location Collected: Mystic Education Center, 240 Oral School Road, Mystic, CT
Date Sample Collected: 05/27/05
Sample Description: Northwest Corner Excavation 2
EAS Sample Number: 05050413-04
LIMS ID Number: AG06420
Date Sample Received: 05/27/05

Parameter	Data	Detection Limit	Units	Analysis Date
1,2-Dichloroethane	BDL	10	ug/kg	05/31/05
Carbon Tetrachloride	BDL	10	ug/kg	05/31/05
Benzene	BDL	10	ug/kg	05/31/05
Trichloroethene	BDL	10	ug/kg	05/31/05
1,2-Dichloropropane	BDL	10	ug/kg	05/31/05
Dibromomethane	BDL	10	ug/kg	05/31/05
Bromodichloromethane	BDL	10	ug/kg	05/31/05
4-Methyl-2-Pentanone	BDL	10	ug/kg	05/31/05
cis-1,3-Dichloropropene	BDL	10	ug/kg	05/31/05
Toluene	BDL	10	ug/kg	05/31/05
trans-1,3-Dichloropropene	BDL	10	ug/kg	05/31/05
1,1,2-Trichloroethane	BDL	10	ug/kg	05/31/05
2-Hexanone	BDL	10	ug/kg	05/31/05
1,3-Dichloropropane	BDL	10	ug/kg	05/31/05
Dibromochloromethane	BDL	10	ug/kg	05/31/05
Tetrachloroethylene	BDL	10	ug/kg	05/31/05
1,2-Dibromoethane	BDL	10	ug/kg	05/31/05
Chlorobenzene	BDL	10	ug/kg	05/31/05
1,1,1,2-Tetrachloroethane	BDL	10	ug/kg	05/31/05
Ethylbenzene	BDL	10	ug/kg	05/31/05
m/p-Xylene	BDL	10	ug/kg	05/31/05
Styrene	BDL	10	ug/kg	05/31/05
o-Xylene	BDL	10	ug/kg	05/31/05
Bromoform	BDL	10	ug/kg	05/31/05
1,1,2,2-Tetrachloroethane	BDL	10	ug/kg	05/31/05
Isopropylbenzene	BDL	10	ug/kg	05/31/05
1,2,3-Trichloropropane	BDL	10	ug/kg	05/31/05
Bromobenzene	BDL	10	ug/kg	05/31/05
n-Propylbenzene	BDL	10	ug/kg	05/31/05
2-Chlorotoluene	BDL	10	ug/kg	05/31/05
4-Chlorotoluene	BDL	10	ug/kg	05/31/05
1,3,5-Trimethylbenzene	BDL	10	ug/kg	05/31/05
tert-Butylbenzene	BDL	10	ug/kg	05/31/05
1,2,4-Trimethylbenzene	BDL	10	ug/kg	05/31/05
sec-Butylbenzene	BDL	10	ug/kg	05/31/05
1,3-Dichlorobenzene	BDL	10	ug/kg	05/31/05

BDL = Below Detection Limit

AARON ENVIRONMENTAL SPECIALISTS

Location Collected: Mystic Education Center, 240 Oral School Road, Mystic, CT
Date Sample Collected: 05/27/05
Sample Description: Northwest Corner Excavation 2
EAS Sample Number: 05050413-04
LIMS ID Number: AG06420
Date Sample Received: 05/27/05

Parameter	Data	Detection Limit	Units	Analysis Date
1,4-Dichlorobenzene	BDL	10	ug/kg	05/31/05
p-Isopropyltoluene	BDL	10	ug/kg	05/31/05
1,2-Dichlorobenzene	BDL	10	ug/kg	05/31/05
n-Butylbenzene	BDL	10	ug/kg	05/31/05
1,2-Dibromo-3-Chloropropane	BDL	10	ug/kg	05/31/05
1,2,4-Trichlorobenzene	BDL	10	ug/kg	05/31/05
Naphthalene	BDL	10	ug/kg	05/31/05
Hexachlorobutadiene	BDL	10	ug/kg	05/31/05
1,2,3-Trichlorobenzene	BDL	10	ug/kg	05/31/05

BDL = Below Detection Limit

AARON ENVIRONMENTAL SPECIALISTS

Location Collected: Mystic Education Center, 240 Oral School Road, Mystic, CT
Date Sample Collected: 05/26/05
Sample Description: Northwest Corner of Generator Pad
EAS Sample Number: 05050413-05
LIMS ID Number: AG06421
Date Sample Received: 05/27/05

Parameter	Data	Detection Limit	Units	Analysis Date
Base/Neutral Extraction, Solid	Completed			05/31/05
ETPH by GC/FID, Solid	BDL	20	mg/kg	06/01/05
GC/MS Base/Neutral SVs, Solid				
N-Nitrosodimethylamine	BDL	330	ug/kg	05/31/05
Pyridine	BDL	330	ug/kg	05/31/05
Bis(2-chloroethyl) ether	BDL	330	ug/kg	05/31/05
1,3-Dichlorobenzene	BDL	330	ug/kg	05/31/05
1,4-Dichlorobenzene	BDL	330	ug/kg	05/31/05
1,2-Dichlorobenzene	BDL	330	ug/kg	05/31/05
2,2'-Oxybis(1-Chloropropane)	BDL	330	ug/kg	05/31/05
N-Nitrosodi-n-propylamine	BDL	330	ug/kg	05/31/05
Hexachloroethane	BDL	330	ug/kg	05/31/05
Nitrobenzene	BDL	330	ug/kg	05/31/05
Isophorone	BDL	330	ug/kg	05/31/05
Bis(2-chloroethoxy) methane	BDL	330	ug/kg	05/31/05
1,2,4-Trichlorobenzene	BDL	330	ug/kg	05/31/05
Naphthalene	BDL	330	ug/kg	05/31/05
Hexachlorobutadiene	BDL	330	ug/kg	05/31/05
2-Methylnaphthalene	BDL	330	ug/kg	05/31/05
Hexachlorocyclopentadiene	BDL	330	ug/kg	05/31/05
2-Chloronaphthalene	BDL	330	ug/kg	05/31/05
Dimethyl phthalate	BDL	330	ug/kg	05/31/05
Acenaphthylene	BDL	330	ug/kg	05/31/05
2,6-Dinitrotoluene	BDL	330	ug/kg	05/31/05
Acenaphthene	BDL	330	ug/kg	05/31/05
2,4-Dinitrotoluene	BDL	330	ug/kg	05/31/05
Diethylphthalate	BDL	330	ug/kg	05/31/05
4-Chlorophenyl phenyl ether	BDL	330	ug/kg	05/31/05
Fluorene	BDL	330	ug/kg	05/31/05
N-Nitrosodiphenylamine	BDL	330	ug/kg	05/31/05
1,2-Diphenylhydrazine	BDL	330	ug/kg	05/31/05
4-Bromophenyl phenyl ether	BDL	330	ug/kg	05/31/05
Hexachlorobenzene	BDL	330	ug/kg	05/31/05
Phenanthrene	BDL	330	ug/kg	05/31/05
Anthracene	BDL	330	ug/kg	05/31/05
Di-n-butylphthalate	BDL	330	ug/kg	05/31/05

BDL = Below Detection Limit

AARON ENVIRONMENTAL SPECIALISTS

Location Collected: Mystic Education Center, 240 Oral School Road, Mystic, CT
Date Sample Collected: 05/26/05
Sample Description: Northwest Corner of Generator Pad
EAS Sample Number: 05050413-05
LIMS ID Number: AG06421
Date Sample Received: 05/27/05

Parameter	Data	Detection Limit	Units	Analysis Date
Fluoranthene	BDL	330	ug/kg	05/31/05
Benzidine	BDL	1600	ug/kg	05/31/05
Pyrene	BDL	330	ug/kg	05/31/05
Butyl benzyl phthalate	BDL	330	ug/kg	05/31/05
3,3'-Dichlorobenzidine	BDL	330	ug/kg	05/31/05
Benzo(a)anthracene	BDL	330	ug/kg	05/31/05
Chrysene	BDL	330	ug/kg	05/31/05
Bis(2-ethylhexyl) phthalate	BDL	330	ug/kg	05/31/05
Di-n-octylphthalate	BDL	330	ug/kg	05/31/05
Benzo(b)fluoranthene	BDL	330	ug/kg	05/31/05
Benzo(k)fluoranthene	BDL	330	ug/kg	05/31/05
Benzo(a)pyrene	BDL	330	ug/kg	05/31/05
Indeno(1,2,3-cd)pyrene	BDL	330	ug/kg	05/31/05
Dibenz(a,h)anthracene	BDL	330	ug/kg	05/31/05
Benzo(g,h,i)perylene	BDL	330	ug/kg	05/31/05
TPH Extraction, Solid	Completed			05/31/05
Volatile Organic Compounds, Solid				
Dichlorodifluoromethane	BDL	10	ug/kg	05/31/05
Chloromethane	BDL	10	ug/kg	05/31/05
Vinyl Chloride	BDL	10	ug/kg	05/31/05
Bromomethane	BDL	10	ug/kg	05/31/05
Chloroethane	BDL	10	ug/kg	05/31/05
Trichlorofluoromethane	BDL	10	ug/kg	05/31/05
Acetone	BDL	25	ug/kg	05/31/05
1,1-Dichloroethene	BDL	10	ug/kg	05/31/05
Methylene Chloride	BDL	10	ug/kg	05/31/05
trans-1,2-Dichloroethene	BDL	10	ug/kg	05/31/05
Methyl-tert-butyl-ether	BDL	10	ug/kg	05/31/05
1,1-Dichloroethane	BDL	10	ug/kg	05/31/05
2-Butanone	BDL	10	ug/kg	05/31/05
cis-1,2-Dichloroethene	BDL	10	ug/kg	05/31/05
2,2-Dichloropropane	BDL	10	ug/kg	05/31/05
Chloroform	BDL	10	ug/kg	05/31/05
Bromochloromethane	BDL	10	ug/kg	05/31/05
1,1,1-Trichloroethane	BDL	10	ug/kg	05/31/05
1,1-Dichloropropene	BDL	10	ug/kg	05/31/05

BDL = Below Detection Limit

AARON ENVIRONMENTAL SPECIALISTS

Location Collected: Mystic Education Center, 240 Oral School Road, Mystic, CT
Date Sample Collected: 05/26/05
Sample Description: Northwest Corner of Generator Pad
EAS Sample Number: 05050413-05
LIMS ID Number: AG06421
Date Sample Received: 05/27/05

Parameter	Data	Detection Limit	Units	Analysis Date
1,2-Dichloroethane	BDL	10	ug/kg	05/31/05
Carbon Tetrachloride	BDL	10	ug/kg	05/31/05
Benzene	BDL	10	ug/kg	05/31/05
Trichloroethene	BDL	10	ug/kg	05/31/05
1,2-Dichloropropane	BDL	10	ug/kg	05/31/05
Dibromomethane	BDL	10	ug/kg	05/31/05
Bromodichloromethane	BDL	10	ug/kg	05/31/05
4-Methyl-2-Pentanone	BDL	10	ug/kg	05/31/05
cis-1,3-Dichloropropene	BDL	10	ug/kg	05/31/05
Toluene	BDL	10	ug/kg	05/31/05
trans-1,3-Dichloropropene	BDL	10	ug/kg	05/31/05
1,1,2-Trichloroethane	BDL	10	ug/kg	05/31/05
2-Hexanone	BDL	10	ug/kg	05/31/05
1,3-Dichloropropane	BDL	10	ug/kg	05/31/05
Dibromochloromethane	BDL	10	ug/kg	05/31/05
Tetrachloroethylene	BDL	10	ug/kg	05/31/05
1,2-Dibromoethane	BDL	10	ug/kg	05/31/05
Chlorobenzene	BDL	10	ug/kg	05/31/05
1,1,1,2-Tetrachloroethane	BDL	10	ug/kg	05/31/05
Ethylbenzene	BDL	10	ug/kg	05/31/05
m/p-Xylene	BDL	10	ug/kg	05/31/05
Styrene	BDL	10	ug/kg	05/31/05
o-Xylene	BDL	10	ug/kg	05/31/05
Bromoform	BDL	10	ug/kg	05/31/05
1,1,2,2-Tetrachloroethane	BDL	10	ug/kg	05/31/05
Isopropylbenzene	BDL	10	ug/kg	05/31/05
1,2,3-Trichloropropane	BDL	10	ug/kg	05/31/05
Bromobenzene	BDL	10	ug/kg	05/31/05
n-Propylbenzene	BDL	10	ug/kg	05/31/05
2-Chlorotoluene	BDL	10	ug/kg	05/31/05
4-Chlorotoluene	BDL	10	ug/kg	05/31/05
1,3,5-Trimethylbenzene	BDL	10	ug/kg	05/31/05
tert-Butylbenzene	BDL	10	ug/kg	05/31/05
1,2,4-Trimethylbenzene	BDL	10	ug/kg	05/31/05
sec-Butylbenzene	BDL	10	ug/kg	05/31/05
1,3-Dichlorobenzene	BDL	10	ug/kg	05/31/05

BDL = Below Detection Limit

AARON ENVIRONMENTAL SPECIALISTS

Location Collected: Mystic Education Center, 240 Oral School Road, Mystic, CT
Date Sample Collected: 05/26/05
Sample Description: Northwest Corner of Generator Pad
EAS Sample Number: 05050413-05
LIMS ID Number: AG06421
Date Sample Received: 05/27/05

Parameter	Data	Detection Limit	Units	Analysis Date
1,4-Dichlorobenzene	BDL	10	ug/kg	05/31/05
p-Isopropyltoluene	BDL	10	ug/kg	05/31/05
1,2-Dichlorobenzene	BDL	10	ug/kg	05/31/05
n-Butylbenzene	BDL	10	ug/kg	05/31/05
1,2-Dibromo-3-Chloropropane	BDL	10	ug/kg	05/31/05
1,2,4-Trichlorobenzene	BDL	10	ug/kg	05/31/05
Naphthalene	BDL	10	ug/kg	05/31/05
Hexachlorobutadiene	BDL	10	ug/kg	05/31/05
1,2,3-Trichlorobenzene	BDL	10	ug/kg	05/31/05

BDL = Below Detection Limit

EAS Project Number: 05050413
Location Collected: Mystic Education Center, 240 Oral School Road, Mystic, CT

EAS Certifications:

Connecticut Certified Laboratory Number: PH 0558

Massachusetts Certified Laboratory Number: M-CT020

Maine Certified Laboratory Number: CT 020

New York Certified Laboratory Number: 10916

Rhode Island Certified Number: 139

The enclosed analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
2. Clean Water Act, List of Approved Test Procedures, 40 CFR
3. EPA Test Methods for the Evaluation of solid Waste, SW-846, 3rd Edition, January 1998

EAS Laboratories, 105 Commercial Street, Watertown, CT 06795 Phone (860) 274-5461 Fax (860) 945-0449

Company Name: AARON Environmental

Project Manager: Maureen K. | Invoice To:

Reports To: Maureen K. | P.O. Number: 2005-572

Project Location: Mystic Education Center
240 Oral School Road, Mystic, CT

Project Number: | Samplers Signature:

Analyses Requested

Date/Time Sample Collected	Comp.	Grab	Sample Description	No. of Containers	(S) Solid, (L) Liquid, (O) Oil	CT ETPH	SVOCs by EPA Method 8270B/NONY	VOCs by EPA Method 8260							EAS ID Number
5/26/05 2:30 pm.		X	Northwest Corner Excavation 1	1	S	X	X	X							05050413-01
5/26/05 1:45pm.		X	West Sidewall	1	S	X	X	X							-02
5/26/05 2:00 pm.		X	Northwest Corner of AST	1	S	X	X	X							-03
5-26-05 2:00pm.		X	Northwest Corner Excavation 2	1	S	X	X	X							-04
5-26-05 2:45pm.		X	Northwest Corner of Generator Pad	1	S	X	X	X							-05

RUSH

Sample Preservation

Cooler Temp (C°)	
Received Ice	
Received Ambient	
Preserved (Yes) (No)	

Relinquished By: (Signature)	Date/Time	Received By: (Signature)
Maureen Kerrigan	5/27/05	
Relinquished By: (Signature)	Date/Time	Received By: (Signature)
Relinquished By: (Signature)	Date/Time 5-31-05	Received By: (Signature) Peter J Mally

Comments/Remarks
RUSH

Turnaround Time Requested: | Project Complete:

White: Lab, Canary: File, Pink: Customer

eas
LABORATORIES

May 31, 2005

AARON ENVIRONMENTAL SPECIALISTS
189 Atwater Street
Plantsville, CT 06479

Attention: Ms. Maureen Kerrigan

EAS Project Number: 05050392
Location Collected: CTDPW - Dimeo, Mystic Education Center, 240 Oral School Road, Mystic, CT

Copies of this report and the supporting computer stored data are retained in our files in the event they are required for future reference.

Any sample submitted to our laboratory will be retained for a maximum of thirty (30) days from receipt of the report.

All analytical data, unless otherwise specified, is reported on a wet weight (as received) basis.

Our laboratory is a multi-state Certified Public Health Laboratory, offering a full range of analytical services that include:

Water and Wastewater Analysis
Hazardous Waste Analysis (RCRA)
Full Priority Pollutant Analysis
Drinking Water Analysis

Gregory C. Lawrence
Laboratory Director

encl.

105 COMMERCIAL STREET WATERTOWN, CT 06795 PHONE (860) 274-5461 FAX (860) 945-0449

Recycled Paper

AARON ENVIRONMENTAL SPECIALISTS

Location Collected: CTDPW - Dimeo, Mystic Education Center, 240 Oral School Road, Mystic, CT
Date Sample Collected: 05/26/05
Sample Description: Stockpile
EAS Sample Number: 05050392-01
LIMS ID Number: AG06332
Date Sample Received: 05/26/05
Client Project Number: 3649

Parameter	Data	Detection Limit	Units	Analysis Date
ETPH by GC/FID, Solid	5100	40	mg/kg	05/28/05
TPH Extraction, Solid	Completed			05/27/05

BDL = Below Detection Limit

EAS Project Number: 05050392
Location Collected: CTDPW - Dimeo, Mystic Education Center, 240 Oral School Road, Mystic, C

EAS Certifications:

Connecticut Certified Laboratory Number: PH 0558

Massachusetts Certified Laboratory Number: M-CT020

Maine Certified Laboratory Number: CT 020

New York Certified Laboratory Number: 10916

Rhode Island Certified Number: 139

The enclosed analyses were conducted in accordance with:

1. APHA Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992
2. Clean Water Act, List of Approved Test Procedures, 40 CFR
3. EPA Test Methods for the Evaluation of solid Waste, SW-846, 3rd Edition, January 1998

EAS Laboratories, 105 Commercial Street, Watertown, CT 06795 Phone (860) 274-5461 Fax (860) 945-0449

Company Name: AARON Environmental

Project Manager: Maureen K. | Invoice To:

Reports To: Maureen K. | P.O. Number:

Project Location: CTDPW - Dimeo

Mystic Education Center, 240 Oral School Rd, Mystic, CT

Project Number: 3649 | Samplers Signature: Maureen Kerrigan

Analyses Requested

Date/Time Sample Collected	Comp.	Grab	Sample Description	No. of Containers	(S) Solid, (L) Liquid, (O) Oil	ETPH										EAS ID Number
5/26/05 2:00pm		X	Stockpile	1	S	X										05050392-01

Sample Preservation

Cooler Temp (C°)	
Received Ice	
Received Ambient	✓
Preserved (Yes) (No)	

RUSH

Relinquished By: (Signature)	Date/Time	Received By: (Signature)
Maureen Kerrigan	5/26/05 5:10	[signature]
Relinquished By: (Signature)	Date/Time	Received By: (Signature)
Relinquished By: (Signature)	Date/Time 5-26-05 / [illegible]	Received By: (Signature) [signature]

Comments/Remarks: RUSH

Turnaround Time Requested: 5/31 | Project Complete:

White: Lab, Canary: File, Pink: Customer

ASBESTOS OPERATIONS AND MAINTENANCE PLAN

MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

PREPARED BY: DELTA Environmental Services, Inc.

DPW PROJECT NUMBER: BI-2B-105 (ASB)

ISSUE DATE: March 2001

DELTA Environmental Services,® Inc.

1.0 INTRODUCTION

The Department of Public Works has implemented an Asbestos Operations and Maintenance (O&M) Program at the Mystic Education Center facility at 240 Oral School Road in Mystic, Connecticut. The purpose of the program is to: ensure the safety of employees who may directly contact and/or work in the vicinity of asbestos-containing materials (ACM); and to minimize the exposure of all building occupants, visitors, maintenance and custodial personnel to airborne asbestos fibers. This document was created as a guideline for all participants in the program.

The principal objective of the Asbestos Operations and Maintenance Program is to minimize the exposure of building occupants, visitors, maintenance and custodial personnel to airborne asbestos fibers by:

- The survey, inventory and periodic reassessment of all asbestos-containing materials (ACM). The purpose of the periodic reassessment is to monitor the condition of ACM.
- Appointment of a properly trained Asbestos Program Manager/Competent Person to oversee all on-site activities involving ACM.
- Awareness training of building maintenance personnel and other individuals who may encounter ACM during their normal work activities.

1.1 Site Description

Mystic Education Center is a seven-building campus-type facility. The property consists of approximately 122 acres and 250,000 square feet of building floor space. The oldest buildings on the campus (the "Girls' Building" and "Rainbow House") were constructed in 1928. The "Main Building" (also known as the "Administration Building") was constructed in 1944. The Crouter building was constructed in the 1950's. The Whipple Building was constructed in 1968. The Pratt and Durant buildings were constructed in 1974. Uses of the buildings vary and include: day programs run by the Department of Mental Retardation (DMR); apartments for approximately twenty full-time residents under the care of DMR; and office space leased to the Engineering Technology Center, a private corporation. Large portions of the buildings are vacant.

MYSTIC EDUCATION CENTER – MYSTIC CT

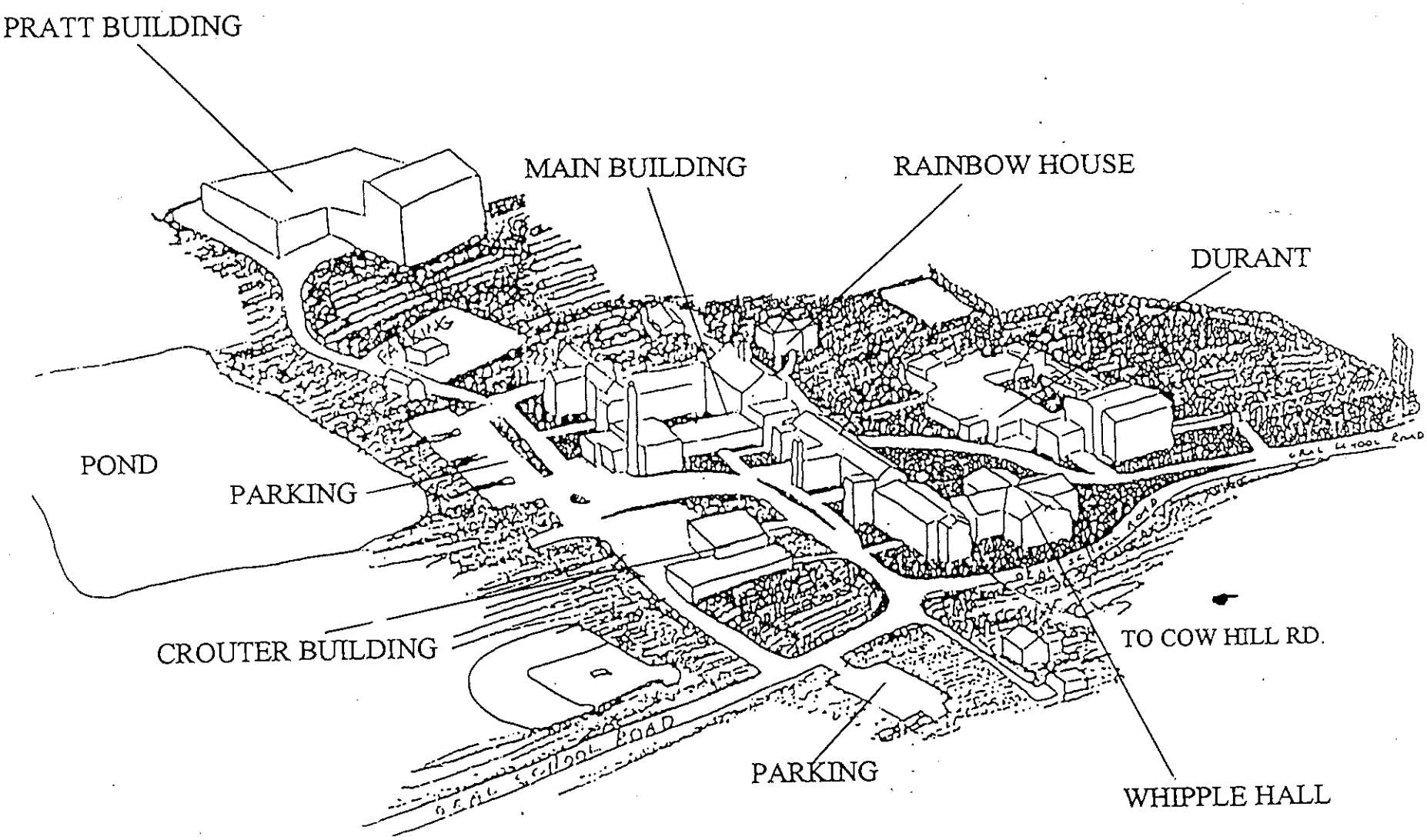


FIGURE 1 - SITE SKETCH
Mystic Education Center
Mystic, Connecticut

DELTA Environmental Services, Inc.

1.2 Description of Facility's Asbestos Handling Policy

The policy of Mystic Education Center is that facility personnel shall not handle asbestos materials. All asbestos abatement projects at the facility shall be conducted by Connecticut licensed asbestos abatement contractors.

The policy applies to routine asbestos removal projects as well as cleanup of asbestos fiber release episodes. A description of the procedure to be followed in the event of an asbestos fiber release episode is contained herein.

Asbestos abatement work at the facility will be coordinated with the Department of Public Works Asbestos Management Section. Facility personnel shall use the following procedure for requesting asbestos abatement services:

- Notify DPW of the reason for the request and the immediacy of action required (i.e. emergency or non-emergency). The Contact Person is:

  ~~Mr. John Wytas~~ MICHAEL K. SANDERS
  Phone: (860) 713-5702
  Fax: (860) 713-7250

- Complete DPW Form 33 (copy included in Appendix I) and fax it to DPW at (860) 713-7250.

2.0 REGULATORY SUMMARY

The following is a brief summary of selected State and Federal regulations pertinent to asbestos activities at Mystic Education Center. Specific recommendations concerning compliance with these regulations are included in Section 6.0 of this report.

2.1 Connecticut Department of Public Health (DPH) Regulations

Connecticut General Statutes Sections 19a-332a-1 through 19a-332a-16 outline specific requirements for asbestos abatement projects which are enforced by DPH. Asbestos abatement contractors who perform work at Mystic Education Center are subject to the regulations. In general, the regulations require: advance notification to DPH prior to initiation of any abatement project, posting of hazard signs and restricting access to abatement areas, specific engineering controls to prevent asbestos fiber release, post abatement air sampling to verify that the area is safe for reoccupancy, and disposal of asbestos waste at an authorized facility.

2.2 Federal Occupational Safety and Health Administration (OSHA) Regulations

The facility is subject to the OSHA Asbestos Standard for the Construction Industry (29 CFR 1926.1101). In the context of the standard, "construction" refers to "alteration, repair, maintenance, or renovation of structures, substrates, or portions thereof, that contain asbestos". The definition includes asbestos removal.

Though asbestos removal at Mystic Education Center is performed by outside contractors, it should be noted that the OSHA Construction Standard imposes specific hazard communication duties on facility owners and operators, as outlined in 29 CFR 1926.1101 (k). The standard requires identification of ACM (through a building survey) and hazard communication as discussed below.

The standard has specific requirements for various types of asbestos activities, which are divided into four work classes. Class I and II work involves asbestos removal. Class III activities are repair and maintenance operations where a small quantity (up to one standard glovebag) of asbestos is likely to be disturbed. Employees working at Mystic Education Center do not currently perform Class I, II or III activities.

Class IV work is defined as: maintenance and custodial activities during which employees contact but do not disturb asbestos; and activities to clean up dust, waste and debris resulting from Class I, II and III activities. Class IV activities performed at Mystic Education Center may include maintenance work involving contact without disturbance of asbestos-containing materials. These materials include vinyl floor tile and thermal systems insulation.

A summary of the requirements of the OSHA Construction Standard pertinent to Mystic Education Center follows:

- Identify asbestos-containing materials in the building as required by Section (k) (2) (I) of the regulation. This has been achieved through DELTA's recently completed asbestos survey reports.

- Post asbestos warning signs inside or at the entrance to mechanical rooms where ACM is present and where employees and outside contractors reasonably can be expected to enter. The signs should identify the specific ACM present and its location in the area.

- As required by Section (k) (2) (ii) of the regulation, inform the following persons in writing of the presence, location and quantity of ACM in the building: employees who work in areas containing ACM; contractors bidding for work in areas containing ACM; other employers on multi-employer worksites with employees working in or adjacent to areas containing ACM; and tenants who occupy areas containing ACM. It appears that this requirement could be satisfied by informing the appropriate persons of the availability of this O&M plan.

- Designate a "competent person" (as defined by OSHA) to oversee work involving potential disturbance of asbestos and ensure that employees are properly protected. The "competent person" is required to have specific asbestos training. For facilities where employees perform Class IV operations, OSHA requires the competent person to have training consistent with EPA requirements for maintenance and custodial staff in school buildings. This training is 16 hours in duration and is commonly referred to as "O&M training".

- The "competent person" is required to perform "initial exposure assessments" for any asbestos operations performed by employees. The exposure assessment is typically made through personal air monitoring of workers to determine whether their exposure exceeds OSHA's permissible exposure limits (PEL's). The initial exposure assessment will determine whether respiratory protection is required for the employee.

  If the initial exposure assessment for a specific task determines that an employee's exposure will not exceed the permissible exposure limit (PEL) for asbestos of 0.1 fibers per cubic centimeter over an 8 hour period (the "time-weighted average" or "TWA"), the competent person may determine that personal air monitoring is not required for workers performing that task over the following year. This determination is called a negative exposure assessment and must use specific criteria to ensure that the air sampling data for the prior work will be representative of an employee's exposure while performing the same task at a later date.

  In some cases, OSHA may allow the use of "objective data" in lieu of air monitoring as a means of conducting an exposure assessment. The "objective data" are required to demonstrate that "the product or material containing asbestos minerals or the activity involving such product or material cannot release airborne fibers in concentrations exceeding the TWA and excursion limit (the permissible exposure limits) under those work conditions having the greatest potential for releasing asbestos". For work at Mystic Education Center involving contact with vinyl floor tile (such as buffing of tile), it may be feasible to use objective data to produce a negative exposure assessment.

- Provide 16 hour O&M training for employees who perform Class III asbestos work and 2 hour awareness training for employees who perform Class IV work. The training should be done by an EPA certified training provider.

- Provide respiratory protection for employees performing Class III work where a negative exposure assessment cannot be produced. For practical purposes, respirators are required for any personnel performing Class III work. Respirators are also required for any areas where asbestos fiber levels exceed the PEL.

- Provide annual medical surveillance for: employees who perform Class III (or Class I or II) work for a combined total of 30 or more days per year; employees exposed to asbestos at levels above the PEL; and employees who are issued a negative pressure respirator.

- Provide all necessary equipment for performing Class III work including hazard signs, respirators, HEPA vacuums and protective clothing. Ensure that Class III work is done using wet removal methods, airtight enclosures and other engineering controls required by DPH regulations for spot repairs.

- Asbestos floor tile maintenance should be done using wet methods. Stripping should be done using low abrasive pads with the machine operated at speeds below 300 rpm. Burnishing and dry buffing should be done only with a coating of wax on the floor. Methods for maintenance of ACM tile are discussed in more detail in Section 5.6.

In addition to the Construction Standard, OSHA has an Asbestos Standard for General Industry (29 CFR 1910.1001). The general industry standard primarily applies specifically to the auto repair industry, though it also governs housekeeping operations involving asbestos which are not related to construction activities. The General Industry Standard requires: exposure monitoring of employees; hazard communication; and medical surveillance/respiratory protection for certain employees.

The provisions of the Construction Standard are more stringent and specific than the General Industry Standard, though they contain similar requirements for hazard communication. For the purposes of the Mystic Education Center O&M program, the Construction Standard takes precedence over the General Industry Standard.

OSHA has developed a Respiratory Protection Standard (29 CFR 1910.134) applicable to all workplaces where respirators are issued or where they are necessary to protect employees. The Standard requires development and implementation of a written respiratory protection program including the following elements: procedures for respirator selection; medical evaluations of employees required to use respirators; fit testing procedures for tight-fitting respirators; procedures for respirator use; procedures for use of supplied air respirators where required; training of employees; and procedures for evaluating the effectiveness of the program. Based on the nature of operations at Mystic Education Center, it does not appear likely that respiratory protection is necessary for employees performing Class IV work, though OSHA requires that an exposure assessment be developed to confirm this finding.

2.3 Environmental Protection Agency (EPA) Regulations

The National Emission Standards for Hazardous Air Pollutants (NESHAP) govern building renovation and demolition projects. The asbestos NESHAP standard is 40 CFR Part 61 Subpart M of the Clean Air Act. The standard requires: asbestos inspection of buildings planned for renovation or demolition; advance notification to EPA or DPH prior to the start of asbestos abatement projects; specific engineering controls and work practices for asbestos abatement; supervision of the work by trained personnel; asbestos waste manifest tracking; and waste disposal at a permitted facility.

3.0 SUMMARY OF ASBESTOS SURVEY FINDINGS

A summary of DELTA's findings for each of the buildings at the facility is provided below. Table 1 summarizes the types and quantities of asbestos-containing materials found in each building and provides abatement cost estimates. Table 2 provides a summary of the cost estimates for the entire facility.

Administration Building

The survey identified the following asbestos-containing materials (ACM) in the Administration Building: various types of vinyl floor tile and mastic; pipe and pipe fitting insulation; soft ceiling surfacing material in the Dining Room; one type of 12" square ceiling tile located at the west side of the second floor corridor; black tar adhesive used to affix blackboards to the wall; and exterior window glazing.

Crouter Building

The survey identified the following ACM in the Crouter Building: various types of vinyl floor tile and mastic; cementitious mudded fitting insulation on fiberglass insulated piping; asbestos-containing "aircell" type pipe insulation; exterior door frame caulk; and exterior window frame caulk.

Durant Building

The survey identified the following ACM in the Durant Building: various types of vinyl floor tile and mastic; cloth wrap on pipe fittings, piping and a heat exchanger; heat exchanger insulation; and sheetrock joint compound.

Girls' Building

The survey identified the following ACM in the Girls' Building: various types of vinyl floor tile and mastic; pipe and pipe fitting insulation, heat exchanger insulation and hot water tank insulation; suspended ceiling tile present throughout much of the basement; glued-on ceiling tile present in Rooms 102 and 105 on the First Floor; a tar coating on cork ceiling lining in the basement cooler room between rooms G-9 and G-10; wall mortar material in the basement cooler room between rooms G-9 and G-10; sheetrock joint compound in portions of the second floor; and exterior window caulk.

Pratt Building

The survey identified the following ACM in the Pratt Building: white 12" floor tile with brown streaks, present only in the laundry room and bowling alley. Mastic from the tile was found not to contain asbestos.

Rainbow House

The survey identified the following ACM in Rainbow House: cementitious mudded fitting insulation on fiberglass insulated piping; and exterior window frame caulk.

Whipple Building

The survey identified the following ACM in the Whipple Building: vinyl floor tile and mastic; glue material ("glue dots") used to affix bulletin boards to the walls in classroom areas; exterior caulking material on metal windows; and glazing material on metal windows.

4.0 OPERATIONS AND MAINTENANCE (O&M) PLAN ELEMENTS

4.1 Asbestos Program Manager

The Asbestos Program Manager is a designated person responsible for implementing the O&M program and overseeing asbestos related activities in the facility. The position of Asbestos Program Manager is typically held by the building engineer or facilities manager. The Asbestos Program Manager should also fulfill the duties of the "competent person" required by the OSHA Construction Industry Standard to oversee work involving potential disturbance of asbestos and ensure that employees are properly protected.

For facilities such as Mystic Education Center where employees perform Class IV operations, OSHA requires the Competent Person to have training consistent with EPA requirements for maintenance and custodial staff in school buildings. This training is 16 hours in duration and is commonly referred to as "O&M training". It is desirable that the Asbestos Program Manager have additional training, such as Connecticut asbestos inspector/management planner training.

4.2 Hazard Communication

4.2.1 Signs and Labeling of Asbestos-Containing Materials (ACM)

A labeling program should be implemented to identify ACM in the facility's "routine maintenance areas", such as boiler rooms and mechanical rooms. The signs should conform to the requirements of the OSHA Construction Standard Section (k) (6) including identification of the type of ACM present in the area and its specific location in the area.

It is recommended that the signs include the following text: DANGER-CONTAINS ASBESTOS FIBERS. CONTACT THE ASBESTOS PROGRAM MANAGER (GIVE NAME AND PHONE NUMBER) FOR APPROVAL PRIOR TO ANY WORK INVOLVING CONTACT WITH THE ASBESTOS MATERIALS.

Signs or labels are not required for some types of ACM if employee training and notification is accomplished in accordance with OSHA requirements. These types include: asbestos-containing floor tile, roofing and thermal systems insulation concealed above drop ceilings. All persons (including outside contractors) who may disturb or contact these materials must be advised in advance that they contain asbestos.

4.2.2 Contaminated Building Areas

OSHA requires that signs be posted restricting access to building areas that are contaminated with ACM debris where it has been demonstrated, or can reasonably be expected, that airborne asbestos fiber concentrations exceed the OSHA Permissible Exposure Limit (PEL). Such locations are known as "Regulated Areas". DELTA's March 2001 survey identified some areas of localized damage to ACM at the facility, though it appears unlikely that these areas constitute "Regulated Areas". Recommendations concerning asbestos abatement at the facility are provided in Section 6.0. Periodic surveillance and reinspection procedures outlined in Section 4.6 should be implemented to monitor the condition of all ACM and promptly identify any areas where ACM becomes damaged, resulting in asbestos fiber release.

Fiber release episodes should be addressed in accordance with the procedures outlined in Section 5.7. Small scale fiber release episodes (involving less than 3 square feet and less than 3 linear feet of asbestos material) ~~can be cleaned up by in-house personnel, provided that they are given the proper training and equipment (such cleanup work constitutes an OSHA Class III activity).~~ as well as Larger fiber release episodes must be addressed by a licensed asbestos abatement contractor. Fiber release episodes should be cleaned up as soon as possible. In the interim period between discovery and cleanup, the location where the release occurred is a "Regulated Area". Access to the area should be restricted and signs posted at all entrances. Regulated areas are required to be posted with signs containing the following text:

DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE CLOTHING
ARE REQUIRED IN THIS AREA

OSHA requires that signs also be posted restricting access to building areas that are contaminated with asbestos debris where fiber concentrations do not exceed the PEL. These signs should read as follows:

WARNING
AREA CONTAMINATED WITH ASBESTOS DEBRIS
AVOID CREATING DUST
AUTHORIZED PERSONNEL ONLY

Such areas should be cleaned up as soon as possible by a State licensed asbestos abatement contractor. In the interim, access to the contaminated building areas should be restricted by limiting the availability of keys to these areas to personnel with appropriate asbestos-related training, who will enter only under the supervision and/or direction of the Asbestos Program Manager.

4.2.3 Awareness Program for Outside Contractors

Contractors hired to do work at Mystic Education Center shall be informed by the Asbestos Program Manager of the location of ACM in the work area to which they are assigned. Contractors shall, under no circumstances, damage or disturb ACM unless they are a licensed Asbestos Abatement Contractor and have been specifically employed to perform asbestos removal.

The Asbestos Program Manager shall provide contractors with either a copy of the completed Asbestos Work Authorization Form (reference Appendix E) or a copy of specific sections of the asbestos survey report pertaining to the areas where the work will occur.

The Asbestos Program Manager shall caution contractors that they shall not proceed with any change in work without prior approval. It will be the responsibility of the contractor to provide their own asbestos awareness program which shall include the information contained in this section.

4.3 Training Requirements

4.3.1 Custodial and Maintenance Training

All maintenance and custodial staff who perform duties involving potential contact with ACM but do not involve the removal or disturbance of ACM should receive two hours asbestos awareness training on an annual basis. Training will include:

1. Asbestos characteristics and typical uses of ACM
2. Health effects of asbestos exposure and the combined effects of smoking and asbestos exposure
3. Purpose of the Asbestos O&M Program
4. Recognition of damaged ACM, and the response that should be made if damaged ACM or suspect ACM is found

5. Summary of the types and locations of ACM in the building.

4.3.2 Operations and Maintenance (O&M) Worker Training

Maintenance personnel who perform duties that involve "Class III" asbestos activities under the OSHA Construction Standard shall receive 16 hours training by an EPA approved training provider including an 8 hour annual refresher. As discussed in Section 2.2, Class III operations include typical spot repairs such as removal of asbestos fitting insulation on a pipe elbow in order to repair a plumbing leak. Class III activities also include work involving incidental disturbance of asbestos, such as telecommunications or electrical work above a drop ceiling where asbestos insulation may be disturbed. The O&M worker training course should include the following elements:

1. Approved asbestos work practices and procedures
2. Implementation of operations, maintenance and repair programs
3. Worker protection, including use of personal protective equipment
4. Fiber release episodes
5. Hands-on training to include:
   a. Setting up containment
   b. Decontamination procedures
   c. Glove bag operations
   d. Use of tools and equipment approved for use with asbestos
6. Standard Work Practices and Procedures set forth in the O&M plan
7. Recordkeeping requirements
8. Review of requirements of the OSHA asbestos standard

4.3.3 Respirator Training

Employees required to wear respiratory protection and employees who perform Class III asbestos work shall receive training on respiratory protection and approved asbestos-related work practices and procedures. The training should include: an explanation of the importance of respirator use; proper procedures for inspection, use, maintenance and storage of the respirator; limitations of various types of respirators; and fit check procedures.

4.3.4 Building Occupant Awareness

Employees should be made aware of the existence of the Asbestos O&M Program, and be provided access to this document upon request. Employees should be made aware that ACM may be present in their workplace, and be cautioned that ACM is not to be damaged or disturbed except under controlled conditions by trained personnel.

Prior to the start of an asbestos abatement project, additional information should be provided to building occupants that will explain the work that is to be performed, and the measures that are being employed to protect them. This information will be made available either at group meetings, or by letter, the use of media resources, or a combination of the above.

4.4 Medical Surveillance

The OSHA Construction Standard requires that annual medical surveillance be provided to: employees who perform Class III (or Class I or II) work for a combined total of 30 or more days per year; employees exposed to asbestos at levels above the PEL; and employees who are issued a negative pressure respirator. As discussed previously, it is not expected that employees at Mystic Education Center will ever perform Class I or II activities (asbestos removal requiring a Connecticut Department of Public Health contractor's license). Class III activities (repair or maintenance involving disturbance of small quantities of ACM) can be performed by employees provided they are given the proper training and other applicable regulations are complied with as discussed in Section 2.0.

If employees performed Class III work for more than 30 days per year or were exposed to asbestos at levels above the PEL (as determined by exposure assessment), medical surveillance would be required. Medical surveillance is also required for employees issued a negative pressure respirator (standard cartridge filter respirator) in order to determine whether they are fit to wear it. Employees issued a powered air purifying respirator (PAPR) are not required to have medical surveillance unless their work meets one of the other conditions.

OSHA requires an exposure assessment be developed for any asbestos related tasks performed by employees, including Class IV work. It appears that respiratory protection may not be necessary for employees performing Class IV work (such as cleaning of vinyl floor tile) at the facility. If the exposure assessment confirms this, medical surveillance will not be required.

Medical surveillance involves: examination by a licensed physician including evaluation of pulmonary and gastrointestinal systems, including a chest roentgenogram to be administered at the discretion of the physician; and a standardized medical and work history questionnaire developed by OSHA.

4.5 Respiratory Protection Program

As discussed in Section 2.2, OSHA has developed a Respiratory Protection Standard (29 CFR 1910.134) applicable to all workplaces where respirators are issued or where they are necessary to protect employees. For employees who perform activities requiring respiratory protection (this generally would include all Class III activities), the Standard requires development and implementation of a written respiratory protection program including the following elements: procedures for respirator selection; medical evaluations of employees required to use respirators; fit testing procedures for tight-fitting respirators; procedures for respirator use; procedures for use of supplied air respirators where required; training of employees; and procedures for evaluating the effectiveness of the program.

Based on the nature of operations at Mystic Education Center, it does not appear that respiratory protection is necessary for employees performing Class IV work, though OSHA requires that an exposure assessment be developed to confirm this finding.

4.6 Reinspection and Periodic Surveillance

It is recommended that all identified asbestos-containing materials in the building be reinspected at least once annually by the on-site asbestos Program Manager. Any change in material condition shall be noted during this inspection and, if necessary, the relative hazard posed to building occupants by this material shall be assessed. If necessary, material repairs and/or minor abatement shall be performed at the first available opportunity to reduce or eliminate the hazard to building occupants.

A complete record of building inspections shall be maintained. A recordkeeping form for periodic surveillance is included in Appendix C. Completed forms should be kept with this O&M plan, in Appendix D.

4.7 Recordkeeping

All records mentioned in this Asbestos O&M Program shall be retained as required by the regulations and as necessary to maintain an effective program. These records shall include:

- The written O&M plan itself, including all revisions, changes and modifications
- All asbestos project (abatement, repair, encapsulation or enclosure) records including, as appropriate, survey records, project design or abatement specifications, air sampling data, daily project monitor logs, sign-in logs, waste disposal manifests, and invoices. The building area affected and material removed shall be clearly identified on the building drawings. Include information regarding abatement projects in Appendix K.
- Attendance records at all awareness and training programs (include in Appendix H).
- Medical surveillance records (if required) shall be maintained for 30 years past the last date of employment for an individual employee. Include any personal exposure monitoring (air sampling) data.

5.0 OPERATIONS AND MAINTENANCE (O&M) STANDARD WORK PRACTICES

Standard work practices and procedures (SWP) provide specific guidelines for certain asbestos-related work activities. Adherence to SWP will minimize the production of airborne asbestos fibers and will protect the worker and building occupants.

5.1 Notification

"Spot repair" asbestos work involving removal of less than 3 square or 3 linear feet may be performed by trained in-house asbestos personnel without notification to DPH. If the amount of ACM involved is more than that amount, the work must be done by a DPH licensed abatement contractor, with the exception of abatement of exterior nonfriable ACM, which does not require a DPH license.

Projects involving less than 10 linear feet or 25 square feet of ACM do not require notification to DPH, though EPA must be notified for any demolition work even if no ACM is present.

5.2 Work Order Permit System

No renovation or maintenance activity involving alteration of a building material should occur without prior review by the Asbestos Program Manager for the possibility of contact with or disturbance of ACM.

All personnel (including outside contractors) shall follow the guidelines of the Work Order Review System detailed in this document if they:

- Conduct maintenance, renovation or repair activities.
- Conduct work in asbestos contaminated work environments where deteriorated or damaged ACM may be present
- Conduct any other work or operation that potentially impacts ACM.

A copy of the Asbestos Work Authorization Form shall be maintained at the work site throughout the course of the project. A copy of the form to be used is included in Appendix D. Completed forms should be kept with this document, in Appendix F.

5.2.1 Purpose

The purpose of the work order review system is to allow the Asbestos Program Manager an opportunity to review all proposed renovation, maintenance or repair work that is to be completed internally by staff and/or outside contractors to insure that either:

- ACM will not be disturbed by the work
- Any damaged ACM present in the work area is repaired and the area cleaned before the work begins
- Suitable precautions are taken if the work has the potential to unintentionally disturb ACM (e.g. due to the physical configuration of the area and the location of the ACM in relation to the proposed work) or,
- The ACM that will be disturbed by the work is removed by a licensed asbestos abatement contractor under the supervision of a licensed Project Monitor hired for this purpose.

All ACM in the area of the work will be identified on the review form. When the work will be conducted in the vicinity of thermal system insulation (TSI), all ACM TSI in the immediate vicinity of the work area will be clearly identified with the OSHA "Danger" warning label, and non-ACM TSI with an "Asbestos Free" label as appropriate.

5.3 Exposure Monitoring

OSHA regulations require that "initial exposure assessments" be performed for asbestos work by employees. The most effective means of performing the assessment is through personal air monitoring. Separate monitoring is required for each type of operation such as removing an asbestos-containing pipe fitting, patching asbestos boiler insulation, cleaning asbestos tile, etc. The initial exposure assessment will determine whether respiratory protection is required for the employee. If the initial exposure assessment for a specific task determines that the employee's exposure will not exceed the permissible exposure limit (PEL) for asbestos of 0.1 fibers per cubic centimeter over an 8 hour period or the "short term" exposure limit (STEL or "ceiling" limit) of 1.0 fibers per cubic centimeter over a 30 minute period, the competent person may determine that personal air monitoring is not required for workers performing that task over the following 12 months. This determination is called a negative exposure assessment and must be based on specific criteria to ensure that the air sampling data for the prior work will be representative of the employee's exposure while performing the same task at a later date.

Personal air sampling methodology and analysis must conform to the OSHA requirements and be performed by a DPH licensed Project Monitor. A copy of personal air sampling results shall be made available to the employee for which the samples were secured within 15 days of receipt from the laboratory.

In some cases, OSHA may allow the use of "objective data" in lieu of air monitoring as a means of conducting an exposure assessment. The "objective data" are required to demonstrate that "the product or material containing asbestos minerals or the activity involving such product or material cannot release airborne fibers in concentrations exceeding the TWA and excursion limit (the permissible exposure limits) under those work conditions having the greatest potential for releasing asbestos". For work at Mystic Education Center involving contact with vinyl floor tile, it may be feasible to use objective data to produce a negative exposure assessment.

5.3.1 Air Sampling During Asbestos Projects

For asbestos abatement projects in occupied buildings, the OSHA Construction Standard requires the employers of the occupants to "take steps on a daily basis to ascertain the integrity of the enclosure and/or the effectiveness of the control method relied on by the primary asbestos contractor". For Mystic Education Center, this will be accomplished by an on-site DPH licensed Project Monitor coordinated by the DPW Asbestos Program. The Project Monitor shall collect air samples both inside and outside of the work area during the project. The Project Monitor will perform a final visual inspection when the work is complete and will secure final clearance air samples using aggressive air sampling techniques as outlined in DPH regulations.

Asbestos abatement contractors working at Mystic Education Center shall be responsible for securing air samples for their own personnel to meet the OSHA requirements. All air sampling results for abatement projects should be maintained on file at the facility.

5.4 Asbestos Spot Repairs

DPH regulations require that abatement of more than three (3) square feet or three (3) linear feet of regulated asbestos material (any ACM with the exception of exterior nonfriable material) be performed by a State licensed contractor. Abatement involving less than three (3) square feet or three (3) linear feet is termed a "spot repair" and does not have to be performed by a licensed contractor, though persons performing the work must be properly trained, specific engineering controls must be used, and waste must be properly disposed of at an authorized facility. Operators of facilities containing significant quantities of asbestos sometimes elect to provide training to in-house maintenance staff so that spot repairs can be performed without retaining an outside contractor. Examples of typical spot repairs include: removal of asbestos fitting insulation on a pipe elbow in order to repair a plumbing leak; removal of a small number of damaged asbestos floor tiles in order to replace them; replacement of an asbestos gasket; and patching of a small area of damaged asbestos pipe or boiler insulation.

Spot repair work is a Class III operation under the OSHA Construction Standard. An exposure assessment must be conducted for employees performing spot repairs. Personal air monitoring and use of a respirator is generally required unless a negative exposure assessment can be developed based on historical data. The most common type of spot repair conducted is removal of asbestos pipe insulation using a glovebag, as discussed in the following section.

5.5 Glovebag Removal of Pipe Insulation

Glovebag procedures can be used to remove small sections of pipe insulation as part of the O&M program. Workers with 16-hour O&M operations training may perform removal of up to 3 linear or 3 square feet of asbestos pipe insulation using a glovebag. Two workers are required to perform a glovebag procedure. The procedure is referred to as a "spot repair" under DPH regulations. The glovebag removal procedure is outlined below.

5.5.1 Equipment and Materials Required

The glovebag procedure typically requires the following materials and equipment:

- Glovebag (6-12 mil) fitted with long sleeves and a tool pouch
- Sprayers containing amended water
- Sprayers containing lock-down encapsulant
- Duct tape
- Polyethylene asbestos disposal bags (6 mil)
- HEPA vacuum cleaner
- Removal tools including saw, knife, stapler, scrapers, brushes, wire cutters and rags
- Polyethylene sheeting (6 mil)
- Respirators and disposable suits with hood and foot covering
- "Diplag" or comparable wettable cloth
- Hazard signs and labels
- Reinsulation materials
- Smoke tube kit to verify that glovebag installation is airtight

5.5.2 Glovebag Procedure

- Follow the manufacturer's directions where applicable. Use approved respirators and protective clothing
- Isolate the area and post warning signs on the perimeter
- Where feasible, shut down and seal off the HVAC serving the work area
- Fill the sprayer with a surfactant/water mixture
- Secure adjacent pipe as necessary
- Clean up any debris on the floor and other surfaces and cover the floor below the work area with 6 mil polyethylene sheeting
- Wrap duct tape around the pipe insulation at the boundaries of the work
- Slit the top of the glovebag open (if necessary) and cut down the sides to accomodate the size of the pipe with about two inches to spare
- Place the tools in the pouch in the glovebag including some pre-cut wettable cloth to fit the exposed insulation ends
- Place one strip of duct tape along the edge of the top slit of the glovebag for reinforcement when stapling
- Place the glovebag around the section of pipe to be worked on and staple the top together through the tape at intervals of about one inch
- Fold the stapled top flap back and tape it down with a strip of duct tape to seal along the top
- Tape the ends of the glovebag to the pipe
- Smoke test the bag for leaks. If leaks are found, tape closed using duct tape and re-test.
- Insert the wand from the water sprayer through the bag and tape tightly around the wand. One person works with the gloves while the second person directs the water spray at the work.

- Cut the pipe cover with the appropriate tool. Use the saw to cut the insulation at each end of the section to be removed.
- Slit the insulation from end to end using the knife along the bottom of the pipe.
- Lift the insulation from the pipe and gently place in bottom of bag.
- Scrape and scrub off pipe. Clean tools and place in pouch.
- Encapsulate the exposed insulation ends using a bridging or penetrating encapsulant as appropriate. Moisten and wrap the wettable cloth over the exposed insulation ends.
- Remove the water wand from the water sleeve and attach the HEPA vacuum. Turn on the vacuum just long enough to collapse the bag.
- Remove the vacuum, dry the plastic around the opening and seal with duct tape.
- From outside the bag, twist the tool pouch section. Place duct tape over the twisted portion and then cut the plastic at the tape to separate the tool bag from the glovebag.
- Discard rags and brushes with the asbestos waste.
- Twist the bag several times, tape it and slip a 6 mil disposal bag under it. Open the top of the glovebag and fold it gently into the disposal bag.
- Twist the top of the disposal bag, fold over and seal with duct tape. Place the sealed bag inside a second bag for disposal.
- HEPA clean any residue on the floor plastic, lightly mist and dispose of as asbestos waste.
- Wet clean and/or HEPA vacuum the work area.
- After cleaning is complete, remove the disposable suits, place in a waste bag, seal closed as above and contain in an outer bag.
- HEPA vacuum the exterior of the respirator before removing.
- Store waste in a secure area until it can be properly disposed of.

5.6 Maintaining and Cleaning Vinyl Asbestos Tile

The survey found vinyl asbestos tile (VAT) flooring throughout much of the facility. Though this material is typically non-friable, the frictional forces exerted on it during routine floor maintenance operations can cause asbestos fibers to be released. The OSHA Construction Standard prohibits sanding of VAT and requires that stripping of finishes be conducted using wet methods and low abrasion pads at speeds lower than 300 rpm. OSHA requires that burnishing or dry buffing be performed only on flooring which has sufficient finish so that the pad does not contact the tile. Personnel responsible for cleaning and maintaining vinyl asbestos tile should be given a minimum of two hours asbestos awareness training. The following additional measures are recommended for VAT maintenance:

- Perform stripping of tile finish coat as infrequently as possible (once per year if feasible). If possible, perform stripping when the building is unoccupied. As noted above, stripping should only be conducted only while the floor is wet using the least abrasive pad possible at speeds lower than 300 rpm.
- Prior to applying a finish coat to the tile, apply two to three coats of sealer. Continue to finish the floor with a high percent solid finish.
- If spray buffing or dry burnishing is used, always ensure that the floor has sufficient finish so that the pad does not contact the tile. Always operate the floor machine at the lowest rate of speed possible using the least abrasive pad possible.
- Use a wet mop for routine cleaning of finished floors whenever possible.
- Ensure that floor mats are used at all entrances during the winter months to reduce scuffing of the tile by sand and salt being tracked into the building.

5.7 Procedures for Asbestos Fiber Release Episodes

A fiber release episode is the falling or dislodging of ACM. Any such incident must be cleaned up by a Connecticut Department of Public Health (DPH) licensed asbestos abatement contractor.

The procedures to follow in the event of a fiber release episode are outlined below.

See ...

5.7.1 Fiber Release Episode General Procedures

- Restrict access to the area and post signs to prevent entry by unauthorized persons.
- Notify the Asbestos Program Manager immediately. → he/she should contact DPW Statewide Services John Waytas of 860 537-2814
- Shut off air handling systems to prevent the distribution of fibers to other areas of the building.
- Building evacuation is appropriate if it is believed that asbestos fibers have been distributed to occupied areas. in due emergencies
- ? Notify the Department of Public Health Asbestos Program at (860) 509-7367, and the Department of Public Works Asbestos Program at (860) 713-5702.
- A minor fiber release episode (involving disturbance of less than 3 square feet and less than 3 linear feet of asbestos-containing material) ~~can be cleaned up~~ by facility personnel, provided that they are trained and equipped properly. The cleanup would be an OSHA Class III operation and would require the use of respirators and protective clothing. Any loose ACM debris should first be cleaned up with a HEPA vacuum. Following vacuuming, the area where the debris fell should be wet with amended water and wiped up with an absorbent material. Asbestos debris, HEPA vacuum filters, mopheads and cloths should be placed in sealed leaktight containers and properly disposed of as asbestos waste.
- ~~The response action for major fiber release episodes cannot be conducted by in-house personnel.~~ The response action for any major fiber release episode must be designed by a DPH licensed Project Designer and conducted by a licensed abatement contractor. A licensed Project Monitor is required to conduct air sampling after completion of the response action to verify that the area is safe for reoccupancy.

→ must be cleaned up by a licensed asbestos abatement contractor.

6.0 SUMMARY OF OPERATIONS AND MAINTENANCE PROGRAM

6.1 Summary of Survey Findings

The survey identified the following types of asbestos-containing materials (ACM) in the several of the buildings at Mystic Education Center: vinyl floor tile and mastic; pipe and pipe fitting insulation; exterior window caulk and glazing

The following materials were found in isolated areas: soft ceiling surfacing material in the Administration Building Dining Room; one type of 12" square ceiling tile located in the Administration Building and Girls' Building; black tar adhesive used to affix blackboards to the wall in the Administration Building; heat exchanger insulation in the Durant Building; sheetrock joint compound in the Durant Building; suspended ceiling tile in the Girls' Building; a tar coating on cork ceiling lining in the basement cooler room in the Girls' Building; wall mortar material in the basement cooler room in the Girls' Building; and glue material used to affix bulletin boards to the walls in classroom areas in the Whipple Building.

Table 3 provides a summary of actions required to implement the O&M program. A preliminary list of abatement priorities is provided, along with cost estimates.

6.2 O&M Program Implementation

The O&M program is designed to further reduce the risk of accidental disturbance of asbestos. The following is a summary of actions necessary to begin implementation of the O&M program.

- Designate an Asbestos Program Manager to implement the O&M program and provide oversight of all asbestos related activities in the facility. The position of Asbestos Program Manager is typically held by the building engineer or facilities manager. The Asbestos Program Manager should also fulfill the duties of the "competent person" required by the OSHA Construction Industry Standard to oversee work involving potential disturbance of asbestos and ensure that employees are properly protected.

  At a minimum, the Asbestos Program Manager should have training consistent with EPA requirements for maintenance and custodial staff in school buildings. This training is 16 hours in duration and is commonly referred to as "O&M training". It is desirable that the Asbestos Program Manager have additional training, such as asbestos inspector/management planner training. Implementation of a work order review system is recommended to allow the Program Manager the opportunity to review all proposed renovation, maintenance or repair work that is to be completed internally by staff and/or outside contractors.

TABLE 3: RECOMMENDED RESPONSE ACTIONS FOR MYSTIC EDUCATION CENTER (IN ORDER OF PRIORITY)

ITEM	ESTIMATED COST
1. Restrict access and post "Asbestos Debris" signs at entrance to: 1A. Girls' Building Boiler Room (Boiler Room for Whipple) (Post signs just inside at all entrance points to room. Signs are recommended as a precautionary measure, due to the presence of a small quantity of loose asbestos debris in the room. Signs are discussed in Section 5.2.2 of the O&M plan.)	---
2. Post "Asbestos Hazard" signs in routine maintenance areas, including: 2A. Girls' Building East Side of Basement Near Rooms G8/G13 2B. Durant Building Mech. Rm. 101 and SE Fan Room 2C. Rainbow House Boiler Room 2D. Admin. Bldg. Pipe Chase Rooms A129, A137, A144, A245 and A329 2E. ETC Pipe Crawlspace (Post signs just inside at all entrance points to room. Signs are discussed in Section 5.2.1 of the O&M plan)	---
3. Develop a plan for asbestos abatement at the facility, in order of priority. Prioritization is dependent on intended future uses of the buildings, as well as any pending maintenance projects and renovation plans. The following is a preliminary priority ranking, based on information currently available to DELTA:	
3A. **Girls' Building Boiler Room** - Clean loose debris. Remove intact asbestos insulation when feasible and reinsulate.	..... $9,000
3B. **Girls' Building Basement** - Remove asbestos pipe insulation and ceiling tile when feasible. Reinsulate piping. Remove vinyl asbestos floor tile in conjunction with other materials if cost effective.	..... $80,000
3C. **Girls' Building Second Floor** - Remove small quantity of damaged sheetrock with asbestos joint compound. Priority for removal of remaining sheetrock is use-dependent.	..... $2,000
3D. **Durant Building Sheetrock** - Priority for removal of sheetrock with asbestos joint compound is dependent on the intended future use of the building.	..... $520,000* *All sheetrock in Building.

TABLE 3: RECOMMENDED RESPONSE ACTIONS FOR MYSTIC EDUCATION CENTER (IN ORDER OF PRIORITY)	
3E. **Rainbow House Basement** - Remove small number of intact asbestos-containing mudded fittings when feasible to facilitate future maintenance work.	..... $2,000
3F. **Durant Building Mechanical Rooms** - Remove intact asbestos insulation when feasible to facilitate future maintenance work.	..... $5,000
3G. **Administration Building Pipe Chases** - Remove asbestos insulation when feasible to facilitate future maintenance work.	..... $8,000
3H. **Whipple Building** - Remove loose floor tiles at Stairwell No. 1, ground floor landing.	..... $2,000
3I. **Crouter Building** - Remove friable asbestos materials as necessary (low priority - use dependent).	..... $5,000
6. Implement Periodic Surveillance and other O&M Program Elements (Summarized in Section 7.3 of the O&M Plan)	---

- OSHA hazard communications regulations require that the following persons be informed in writing of the presence, location and quantity of ACM in the building: employees who work in areas containing ACM; contractors bidding for work in areas containing ACM; other employers on multi-employer worksites with employees working in or adjacent to areas containing ACM; and tenants who occupy areas containing ACM. It appears that this requirement could be satisfied by informing the appropriate personnel of the availability of this O&M plan.

- Ensure that two-hour asbestos awareness training is provided for building maintenance personnel including any employees responsible for cleaning/maintaining the exposed vinyl asbestos tile. The training should include annual refreshers. Utilize the standard work practice procedures for cleaning and maintaining vinyl asbestos tile as outlined herein.

- Perform "initial exposure assessments" for any asbestos operations performed by employees (such as cleaning/maintaining vinyl asbestos tile). The most effective means of performing the assessment is through personal air monitoring. Separate monitoring is required for each type of operation.

  If the initial exposure assessment for a specific task determines that the employee's exposure will not exceed the permissible exposure limit (PEL) for asbestos of 0.1 fibers per cubic centimeter over an 8 hour period, the Asbestos Program Manager/competent person may determine that personal air monitoring is not required for workers performing that task over the following 12 months. This determination is called a negative exposure assessment and must be based on specific criteria to ensure that the air sampling data for the prior work will be representative of the employee's exposure while performing the same task at a later date.

  In some cases, OSHA may allow the use of "objective data" in lieu of air monitoring as a means of conducting an exposure assessment. The "objective data" are required to demonstrate that "the product or material containing asbestos minerals or the activity involving such product or material cannot release airborne fibers in concentrations exceeding the TWA and excursion limit (the permissible exposure limits) under those work conditions having the greatest potential for releasing asbestos". For work at Mystic Education Center involving contact with vinyl floor tile, it may be feasible to use objective data to produce a negative exposure assessment.

- It is recommended that all identified asbestos-containing materials in the building be reinspected at least once annually. Any change in material condition shall be noted during this inspection and, if necessary, the relative hazard posed to building occupants by this material shall be assessed.

- Place signs in routine maintenance areas where asbestos is present as required by the OSHA Construction Standard. The signs should identify the type of ACM present and its specific location in the area. The signs shall include the following text: DANGER. CONTAINS ASBESTOS FIBERS. AVOID CREATING DUST. CANCER AND LUNG DISEASE HAZARD. It is recommended that the signs also include a statement as follows: DO NOT DISTURB WITHOUT PROPER TRAINING AND EQUIPMENT. CONTACT THE ASBESTOS PROGRAM MANAGER (GIVE NAME AND PHONE NUMBER) FOR APPROVAL PRIOR TO ANY WORK INVOLVING TOUCHING OR DISTURBING THE ASBESTOS MATERIALS.

6.3 Actions Required to Perform OSHA Class III Operations

The following actions must be taken if employees will be asked to perform asbestos "spot repairs" (OSHA Class III operations).

- Provide sixteen-hour asbestos operations and maintenance training for any employees performing repair/maintenance operations involving intentional disturbance of asbestos, categorized as "Class III" operations by OSHA. Class III operations must not disturb more than 3 square feet or 3 linear feet of regulated ACM; work which exceeds these thresholds is categorized as an "asbestos project" by the Connecticut Department of Public Health and must be done by a licensed asbestos abatement contractor. Examples of Class III operations which may be applicable to Mystic Education Center include: removal of a small number of damaged asbestos floor tiles in order to replace them; and patching of a small area of damaged asbestos boiler breeching insulation. At the time of writing, it is DELTA's understanding that no Mystic Education Center employees have received training and therefore do not perform Class III work. **Mystic Education Center personnel must not perform Class III operations until they have received the proper training and equipment; any such work will have to be done by licensed abatement contractors in the interim.** YES

- Provide all necessary equipment for employees performing Class III work including hazard signs, respirators, HEPA vacuums and protective clothing. Ensure that Class III work is done using wet removal methods, airtight enclosures and other engineering controls required by DPH regulations for spot repairs.

- Perform "initial exposure assessments" for Class III and Class IV asbestos operations performed by employees. The most effective means of performing the assessment is through personal air monitoring. Separate monitoring is required for each type of operation such as removing an asbestos-containing fitting, patching asbestos boiler insulation, cleaning asbestos tile, etc. The initial exposure assessment will determine whether respiratory protection is required for the employee.

If the initial exposure assessment for a specific task determines that the employee's exposure will not exceed the permissible exposure limit (PEL) for asbestos of 0.1 fibers per cubic centimeter over an 8 hour period, the Asbestos Program Manager/competent person may determine that personal air monitoring is not required for workers performing that task over the following 12 months. This determination is called a negative exposure assessment and must be based on specific criteria to ensure that the air sampling data for the prior work will be representative of the employee's exposure while performing the same task at a later date.

- Provide respiratory protection and training in respirator use for employees performing Class III work where a negative exposure assessment cannot be produced. For practical purposes, respirators are required for any personnel performing Class III work. Respirators are also required for any areas where asbestos fiber levels exceed the PEL. OSHA requires that a written respiratory protection plan be developed.

- Provide annual medical surveillance for: employees who perform Class III (or Class I or II) work for a combined total of 30 or more days per year; employees exposed to asbestos at levels above the PEL; and employees who are issued a negative pressure respirator.

ASBESTOS OPERATIONS AND MAINTENANCE PLAN

MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

PREPARED BY: DELTA Environmental Services, Inc.

DPW PROJECT NUMBER: BI-2B-105 (ASB)

ISSUE DATE: April 2001

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MYSTIC EDUCATION CENTER
OPERATIONS AND MAINTENANCE PROGRAM
TABLE OF REVISIONS AND UPDATES

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NOTE: ITEMS IN BOLD TYPE REQUIRE REGULAR UPDATING BY ASBESTOS PROGRAM MANAGER!!

1.0 INTRODUCTION

The Department of Public Works has implemented an Asbestos Operations and Maintenance (O&M) Program at the Mystic Education Center facility at 240 Oral School Road in Mystic, Connecticut. The purpose of the program is to: ensure the safety of employees who may directly contact and/or work in the vicinity of asbestos-containing materials (ACM); and to minimize the exposure of all building occupants, visitors, maintenance and custodial personnel to airborne asbestos fibers. This document was created as a guideline for all participants in the program.

The principal objective of the Asbestos Operations and Maintenance Program is to minimize the exposure of building occupants, visitors, maintenance and custodial personnel to airborne asbestos fibers by:

- The survey, inventory and periodic reassessment of all asbestos-containing materials (ACM). The purpose of the periodic reassessment is to monitor the condition of ACM.

- Appointment of a properly trained Asbestos Program Manager/Competent Person to oversee all on-site activities involving ACM.

- Awareness training of building maintenance personnel and other individuals who may encounter ACM during their normal work activities.

1.1 Site Description

Mystic Education Center is a seven-building campus-type facility. The property consists of approximately 122 acres and 250,000 square feet of building floor space. The oldest buildings on the campus (the "Girls' Building" and "Rainbow House") were constructed in 1928. The "Main Building" (also known as the "Administration Building") was constructed in 1944. The Crouter building was constructed in the 1950's. The Whipple Building was constructed in 1968. The Pratt and Durant buildings were constructed in 1974. Uses of the buildings vary and include: day programs run by the Department of Mental Retardation (DMR); apartments for approximately twenty full-time residents under the care of DMR; and office space leased to the Engineering Technology Center, a private corporation. Large portions of the buildings are vacant.

MYSTIC EDUCATION CENTER – MYSTIC CT

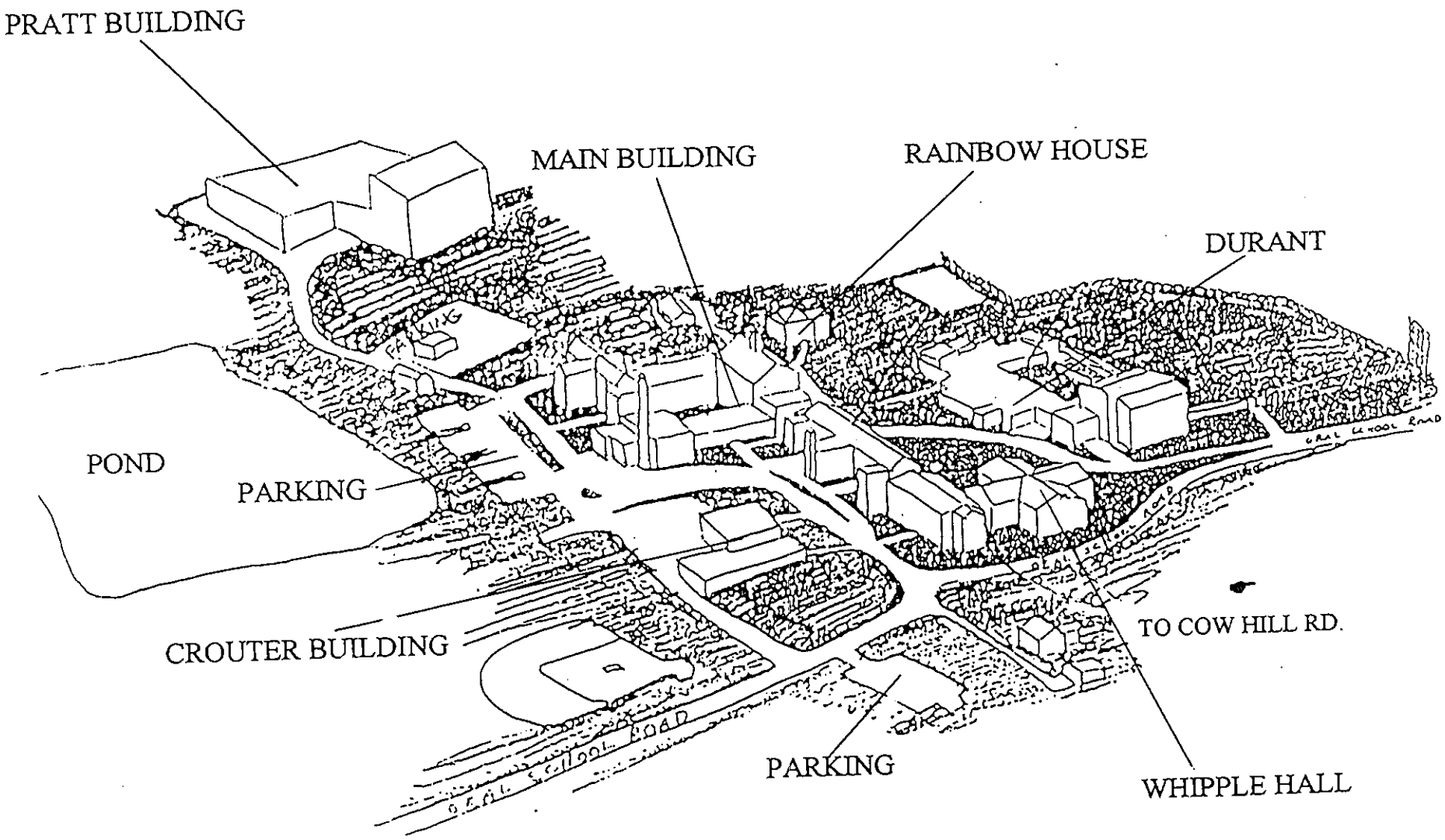

FIGURE 1 - SITE SKETCH
Mystic Education Center
Mystic, Connecticut

DELTA Environmental Services,© Inc.

1.2 Description of Facility's Asbestos Handling Policy

The policy of Mystic Education Center is that facility personnel shall not handle asbestos materials. All asbestos abatement projects at the facility shall be conducted by Connecticut licensed asbestos abatement contractors.

The policy applies to routine asbestos removal projects as well as cleanup of asbestos fiber release episodes. A description of the procedure to be followed in the event of an asbestos fiber release episode is contained herein.

Asbestos abatement work at the facility will be coordinated with the Department of Public Works Asbestos Management Section. Facility personnel shall use the following procedure for requesting asbestos abatement services:

- Notify DPW of the reason for the request and the immediacy of action required (i.e. emergency or non-emergency). The Contact Person is:

  Mr. John Wytas
  Phone: (860) 713-5702
  Fax: (860) 713-7250

- Complete DPW Form 33 (copy included in Appendix I) and fax it to DPW at (860) 713-7250.

2.0 REGULATORY SUMMARY

The following is a brief summary of selected State and Federal regulations pertinent to asbestos activities at Mystic Education Center. Specific recommendations concerning compliance with these regulations are included in Section 6.0 of this report.

2.1 Connecticut Department of Public Health (DPH) Regulations

Connecticut General Statutes Sections 19a-332a-1 through 19a-332a-16 outline specific requirements for asbestos abatement projects which are enforced by DPH. Asbestos abatement contractors who perform work at Mystic Education Center are subject to the regulations. In general, the regulations require: advance notification to DPH prior to initiation of any abatement project, posting of hazard signs and restricting access to abatement areas, specific engineering controls to prevent asbestos fiber release, post abatement air sampling to verify that the area is safe for reoccupancy, and disposal of asbestos waste at an authorized facility.

2.2 Federal Occupational Safety and Health Administration (OSHA) Regulations

The facility is subject to the OSHA Asbestos Standard for the Construction Industry (29 CFR 1926.1101). In the context of the standard, "construction" refers to "alteration, repair, maintenance, or renovation of structures, substrates, or portions thereof, that contain asbestos". The definition includes asbestos removal.

Though asbestos removal at Mystic Education Center is performed by outside contractors, it should be noted that the OSHA Construction Standard imposes specific hazard communication duties on facility owners and operators, as outlined in 29 CFR 1926.1101 (k). The standard requires identification of ACM (through a building survey) and hazard communication as discussed below.

The standard has specific requirements for various types of asbestos activities, which are divided into four work classes. Class I and II work involves asbestos removal. Class III activities are repair and maintenance operations where a small quantity (up to one standard glovebag) of asbestos is likely to be disturbed. Employees working at Mystic Education Center do not currently perform Class I, II or III activities.

Class IV work is defined as: maintenance and custodial activities during which employees contact but do not disturb asbestos; and activities to clean up dust, waste and debris resulting from Class I, II and III activities. Class IV activities performed at Mystic Education Center may include maintenance work involving contact without disturbance of asbestos-containing materials. These materials include vinyl floor tile and thermal systems insulation.

A summary of the requirements of the OSHA Construction Standard pertinent to Mystic Education Center follows:

- Identify asbestos-containing materials in the building as required by Section (k) (2) (I) of the regulation. This has been achieved through DELTA's recently completed asbestos survey reports.

- Post asbestos warning signs inside or at the entrance to mechanical rooms where ACM is present and where employees and outside contractors reasonably can be expected to enter. The signs should identify the specific ACM present and its location in the area.

- As required by Section (k) (2) (ii) of the regulation, inform the following persons in writing of the presence, location and quantity of ACM in the building: employees who work in areas containing ACM; contractors bidding for work in areas containing ACM; other employers on multi-employer worksites with employees working in or adjacent to areas containing ACM; and tenants who occupy areas containing ACM. It appears that this requirement could be satisfied by informing the appropriate persons of the availability of this O&M plan.

- Designate a "competent person" (as defined by OSHA) to oversee work involving potential disturbance of asbestos and ensure that employees are properly protected. The "competent person" is required to have specific asbestos training. For facilities where employees perform Class IV operations, OSHA requires the competent person to have training consistent with EPA requirements for maintenance and custodial staff in school buildings. This training is 16 hours in duration and is commonly referred to as "O&M training".

- The "competent person" is required to perform "initial exposure assessments" for any asbestos operations performed by employees. The exposure assessment is typically made through personal air monitoring of workers to determine whether their exposure exceeds OSHA's permissible exposure limits (PEL's). The initial exposure assessment will determine whether respiratory protection is required for the employee.

  If the initial exposure assessment for a specific task determines that an employee's exposure will not exceed the permissible exposure limit (PEL) for asbestos of 0.1 fibers per cubic centimeter over an 8 hour period (the "time-weighted average" or "TWA"), the competent person may determine that personal air monitoring is not required for workers performing that task over the following year. This determination is called a negative exposure assessment and must use specific criteria to ensure that the air sampling data for the prior work will be representative of an employee's exposure while performing the same task at a later date.

  In some cases, OSHA may allow the use of "objective data" in lieu of air monitoring as a means of conducting an exposure assessment. The "objective data" are required to demonstrate that "the product or material containing asbestos minerals or the activity involving such product or material cannot release airborne fibers in concentrations exceeding the TWA and excursion limit (the permissible exposure limits) under those work conditions having the greatest potential for releasing asbestos". For work at Mystic Education Center involving contact with vinyl floor tile (such as buffing of tile), it may be feasible to use objective data to produce a negative exposure assessment.

- Provide 16 hour O&M training for employees who perform Class III asbestos work and 2 hour awareness training for employees who perform Class IV work. The training should be done by an EPA certified training provider.

- Provide respiratory protection for employees performing Class III work where a negative exposure assessment cannot be produced. For practical purposes, respirators are required for any personnel performing Class III work. Respirators are also required for any areas where asbestos fiber levels exceed the PEL.

- Provide annual medical surveillance for: employees who perform Class III (or Class I or II) work for a combined total of 30 or more days per year; employees exposed to asbestos at levels above the PEL; and employees who are issued a negative pressure respirator.

- Provide all necessary equipment for performing Class III work including hazard signs, respirators, HEPA vacuums and protective clothing. Ensure that Class III work is done using wet removal methods, airtight enclosures and other engineering controls required by DPH regulations for spot repairs.

- Asbestos floor tile maintenance should be done using wet methods. Stripping should be done using low abrasive pads with the machine operated at speeds below 300 rpm. Burnishing and dry buffing should be done only with a coating of wax on the floor. Methods for maintenance of ACM tile are discussed in more detail in Section 5.6.

  In addition to the Construction Standard, OSHA has an Asbestos Standard for General Industry (29 CFR 1910.1001). The general industry standard primarily applies specifically to the auto repair industry, though it also governs housekeeping operations involving asbestos which are not related to construction activities. The General Industry Standard requires: exposure monitoring of employees; hazard communication; and medical surveillance/respiratory protection for certain employees.

  The provisions of the Construction Standard are more stringent and specific than the General Industry Standard, though they contain similar requirements for hazard communication. For the purposes of the Mystic Education Center O&M program, the Construction Standard takes precedence over the General Industry Standard.

OSHA has developed a Respiratory Protection Standard (29 CFR 1910.134) applicable to all workplaces where respirators are issued or where they are necessary to protect employees. The Standard requires development and implementation of a written respiratory protection program including the following elements: procedures for respirator selection; medical evaluations of employees required to use respirators; fit testing procedures for tight-fitting respirators; procedures for respirator use; procedures for use of supplied air respirators where required; training of employees; and procedures for evaluating the effectiveness of the program. Based on the nature of operations at Mystic Education Center, it does not appear likely that respiratory protection is necessary for employees performing Class IV work, though OSHA requires that an exposure assessment be developed to confirm this finding.

2.3 Environmental Protection Agency (EPA) Regulations

The National Emission Standards for Hazardous Air Pollutants (NESHAP) govern building renovation and demolition projects. The asbestos NESHAP standard is 40 CFR Part 61 Subpart M of the Clean Air Act. The standard requires: asbestos inspection of buildings planned for renovation or demolition; advance notification to EPA or DPH prior to the start of asbestos abatement projects; specific engineering controls and work practices for asbestos abatement; supervision of the work by trained personnel; asbestos waste manifest tracking; and waste disposal at a permitted facility.

3.0 SUMMARY OF ASBESTOS SURVEY FINDINGS

A summary of DELTA's findings for each of the buildings at the facility is provided below. Table 1 summarizes the types and quantities of asbestos-containing materials found in each building and provides abatement cost estimates. Table 2 provides a summary of the cost estimates for the entire facility.

Administration Building

The survey identified the following asbestos-containing materials (ACM) in the Administration Building: various types of vinyl floor tile and mastic; pipe and pipe fitting insulation; soft ceiling surfacing material in the Dining Room; one type of 12" square ceiling tile located at the west side of the second floor corridor; black tar adhesive used to affix blackboards to the wall; and exterior window glazing.

TABLE 1: SUMMARY OF IDENTIFIED ACM AND ABATEMENT COST ESTIMATES
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

Building/Description	Quantity	Unit	Unit Cost	Subtotal Cost	Consultant (20%)	Contingency (10%)	Total Cost
ADMINISTRATION BUILDING							
REMOVAL							
Thermal Systems Insulation	231	SF	$10.00	$2,310	$462	$231	$3,003
Thermal Systems Insulation	3,249	LF	$15.00	$48,735	$9,747	$4,873	$63,355
Surfacing (Ceiling)	3,700	SF	$12.50	$46,250	$9,250	$4,625	$60,125
Misc. (VAT/Mastic)	7,155	SF	$5.00	$35,775	$7,155	$3,577	$46,507
Misc. (Ceiling Tile)	500	SF	$5.00	$2,500	$500	$250	$3,250
REPLACEMENT							
Thermal Systems Insulation	231	SF	$10.00	$2,310	$462	$231	$3,003
Thermal Systems Insulation	3,249	LF	$15.00	$48,735	$9,747	$4,873	$63,355
Surfacing		SF	N/A				
Misc.		SF	N/A				
ABATEMENT ESTIMATE (ADMINISTRATION BUILDING):							**$242,598**

TABLE 1: SUMMARY OF IDENTIFIED ACM AND ABATEMENT COST ESTIMATES
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

Building/Description	Quantity	Unit	Unit Cost	Subtotal Cost	Consultant (20%)	Contingency (10%)	Total Cost
CROUTER BUILDING							
REMOVAL							
Thermal Systems Insulation	165	SF	$10.00	$1,650	$330	$165	$2,145
Misc. Material (VAT/Mastic)	810	SF	$5.00	$4,050	$810	$405	$5,265
REPLACEMENT							
Thermal Systems Insulation	165	SF	$10.00	$1,650	$330	$165	$2,145
Misc. (VAT/Mastic)	N/A	N/A	N/A				
ABATEMENT ESTIMATE (CROUTER BUILDING):							**$9,555**
DURANT BUILDING							
REMOVAL							
Thermal Systems Insulation	133	SF	$10.00	$1,330	$266	$133	$1,729
Thermal Systems Insulation	20	LF	$15.00	$300	$60	$30	$390
Misc. (Sheetrock)	80,000	SF	$5.00	$400,000	$80,000	$40,000	$520,000
Misc. (VAT/Mastic)	3,470	SF	$5.00	$17,350	$3,470	$1,735	$22,555

TABLE 1: SUMMARY OF IDENTIFIED ACM AND ABATEMENT COST ESTIMATES
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

Building/Description	Quantity	Unit	Unit Cost	Subtotal Cost	Consultant (20%)	Contingency (10%)	Total Cost
DURANT BUILDING (CONTINUED)							
REPLACEMENT							
Thermal Systems Insulation	133	SF	$10.00	$1,330	$266	$133	$1,729
Thermal Systems Insulation	20	LF	$15.00	$300	$60	$30	$390
Misc.		SF	N/A				
ABATEMENT ESTIMATE (DURANT BUILDING):							**$546,793**
GIRLS' BUILDING							
REMOVAL							
Thermal Systems Insulation	214	SF	$10.00	$2,140	$428	$214	$2,782
Thermal Systems Insulation	873	LF	$15.00	$13,095	$2,619	$1,309	$17,023
Surfacing (Cooler Wall/Ceiling Lining)	240	SF	$12.50	$3,000	$600	$300	$3,900
Misc. (Sheetrock)	3,040	SF	$5.00	$15,200	$3,040	$1,520	$19,760
Misc. (VAT/Mastic)	5,370	SF	$5.00	$26,850	$5,370	$2,685	$34,905
Misc. (Ceiling Tile)	3,280	SF	$5.00	$16,400	$3,280	$1,640	$21,320

TABLE 1: SUMMARY OF IDENTIFIED ACM AND ABATEMENT COST ESTIMATES
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

Building/Description	Quantity	Unit	Unit Cost	Subtotal Cost	Consultant (20%)	Contingency (10%)	Total Cost
GIRLS' BUILDING (CONTINUED)							
REPLACEMENT							
Thermal Systems Insulation	214	SF	$10.00	$2,140	$428	$214	$2,782
Thermal Systems Insulation	873	LF	$15.00	$13,095	$2,619	$1,309	$17,023
Surfacing		SF	N/A				
Misc.		SF	N/A				
GRAND TOTAL				$91,920	$18,384	$9,192	$119,496
ABATEMENT ESTIMATE (GIRLS' BUILDING):							**$119,496**
PRATT BUILDING							
REMOVAL							
Misc. (VAT/Mastic)	800	SF	$5.00	$4,000	$800	$400	$5,200
REPLACEMENT							
Misc. (VAT/Mastic)	N/A	N/A	N/A				
ABATEMENT ESTIMATE (PRATT BUILDING):							**$5,200**

TABLE 1: SUMMARY OF IDENTIFIED ACM AND ABATEMENT COST ESTIMATES
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

Building/Description	Quantity	Unit	Unit Cost	Subtotal Cost	Consultant (20%)	Contingency (10%)	Total Cost
RAINBOW HOUSE							
REMOVAL							
Thermal Systems Insulation	57	SF	$10.00	$570	$114	$57	$741
REPLACEMENT							
Thermal Systems Insulation	57	SF	$10.00	$570	$114	$57	$741
ABATEMENT ESTIMATE (RAINBOW HOUSE):							**$1,482**
WHIPPLE BUILDING							
REMOVAL							
Misc. (Glue Dots)	168	SF	$5.00	$840	$168	$84	$1,092
Misc. (VAT/Mastic)	19,520	SF	$5.00	$97,600	$19,520	$9,760	$126,880
REPLACEMENT							
Misc.		SF	N/A				
ABATEMENT ESTIMATE (WHIPPLE BUILDING):							**$127,972**

NOTE: TABLE DOES NOT INCLUDE ABATEMENT OF ANY EXTERIOR ASBESTOS SUCH AS WINDOW CAULK OR ROOFING.

TABLE 2: ASBESTOS ABATEMENT COST ESTIMATE SUMMARY MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
BUILDING	**REMOVAL COST**	**REPLACEMENT COST**	**TOTAL COST**
Administration	$176,240	$66,358	$242,598
Crouter	$7,410	$2,145	$9,555
Durant	$544,674	$2,119	$546,793
Girls'	$99,691	$19,805	$119,496
Pratt	$5,200	$0	$5,200
Rainbow House	$741	$741	$1,482
Whipple	$127,972	$0	$127,972
TOTALS	$961,928	$91,168	**$1,053,096**

Crouter Building

The survey identified the following ACM in the Crouter Building: various types of vinyl floor tile and mastic; cementitious mudded fitting insulation on fiberglass insulated piping; asbestos-containing "aircell" type pipe insulation; exterior door frame caulk; and exterior window frame caulk.

Durant Building

The survey identified the following ACM in the Durant Building: various types of vinyl floor tile and mastic; cloth wrap on pipe fittings, piping and a heat exchanger; heat exchanger insulation; and sheetrock joint compound.

Girls' Building

The survey identified the following ACM in the Girls' Building: various types of vinyl floor tile and mastic; pipe and pipe fitting insulation, heat exchanger insulation and hot water tank insulation; suspended ceiling tile present throughout much of the basement; glued-on ceiling tile present in Rooms 102 and 105 on the First Floor; a tar coating on cork ceiling lining in the basement cooler room between rooms G-9 and G-10; wall mortar material in the basement cooler room between rooms G-9 and G-10; sheetrock joint compound in portions of the second floor; and exterior window caulk.

Pratt Building

The survey identified the following ACM in the Pratt Building: white 12" floor tile with brown streaks, present only in the laundry room and bowling alley. Mastic from the tile was found not to contain asbestos.

Rainbow House

The survey identified the following ACM in Rainbow House: cementitious mudded fitting insulation on fiberglass insulated piping; and exterior window frame caulk.

Whipple Building

The survey identified the following ACM in the Whipple Building: vinyl floor tile and mastic; glue material ("glue dots") used to affix bulletin boards to the walls in classroom areas; exterior caulking material on metal windows; and glazing material on metal windows.

4.0 OPERATIONS AND MAINTENANCE (O&M) PLAN ELEMENTS

4.1 Asbestos Program Manager

The Asbestos Program Manager is a designated person responsible for implementing the O&M program and overseeing asbestos related activities in the facility. The position of Asbestos Program Manager is typically held by the building engineer or facilities manager. The Asbestos Program Manager should also fulfill the duties of the "competent person" required by the OSHA Construction Industry Standard to oversee work involving potential disturbance of asbestos and ensure that employees are properly protected.

For facilities such as Mystic Education Center where employees perform Class IV operations, OSHA requires the Competent Person to have training consistent with EPA requirements for maintenance and custodial staff in school buildings. This training is 16 hours in duration and is commonly referred to as "O&M training". It is desirable that the Asbestos Program Manager have additional training, such as Connecticut asbestos inspector/management planner training.

4.2 Hazard Communication

4.2.1 Signs and Labeling of Asbestos-Containing Materials (ACM)

A labeling program should be implemented to identify ACM in the facility's "routine maintenance areas", such as boiler rooms and mechanical rooms. The signs should conform to the requirements of the OSHA Construction Standard Section (k) (6) including identification of the type of ACM present in the area and its specific location in the area.

It is recommended that the signs include the following text: DANGER-CONTAINS ASBESTOS FIBERS. CONTACT THE ASBESTOS PROGRAM MANAGER (GIVE NAME AND PHONE NUMBER) FOR APPROVAL PRIOR TO ANY WORK INVOLVING CONTACT WITH THE ASBESTOS MATERIALS.

Signs or labels are not required for some types of ACM if employee training and notification is accomplished in accordance with OSHA requirements. These types include: asbestos-containing floor tile, roofing and thermal systems insulation concealed above drop ceilings. All persons (including outside contractors) who may disturb or contact these materials must be advised in advance that they contain asbestos.

4.2.2 Contaminated Building Areas

OSHA requires that signs be posted restricting access to building areas that are contaminated with ACM debris where it has been demonstrated, or can reasonably be expected, that airborne asbestos fiber concentrations exceed the OSHA Permissible Exposure Limit (PEL). Such locations are known as "Regulated Areas". DELTA's March 2001 survey identified some areas of localized damage to ACM at the facility, though it appears unlikely that these areas constitute "Regulated Areas". Recommendations concerning asbestos abatement at the facility are provided in Section 6.0. Periodic surveillance and reinspection procedures outlined in Section 4.6 should be implemented to monitor the condition of all ACM and promptly identify any areas where ACM becomes damaged, resulting in asbestos fiber release.

Fiber release episodes should be addressed in accordance with the procedures outlined in Section 5.7. Small scale fiber release episodes (involving less than 3 square feet and less than 3 linear feet of asbestos material) ~~can be cleaned up by in-house personnel, provided that they are given the proper training and equipment (such cleanup work constitutes an OSHA Class III activity).~~ as well as Larger fiber release episodes must be addressed by a licensed asbestos abatement contractor. Fiber release episodes should be cleaned up as soon as possible. In the interim period between discovery and cleanup, the location where the release occurred is a "Regulated Area". Access to the area should be restricted and signs posted at all entrances. Regulated areas are required to be posted with signs containing the following text:

DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE CLOTHING
ARE REQUIRED IN THIS AREA

OSHA requires that signs also be posted restricting access to building areas that are contaminated with asbestos debris where fiber concentrations do not exceed the PEL. These signs should read as follows:

WARNING
AREA CONTAMINATED WITH ASBESTOS DEBRIS
AVOID CREATING DUST
AUTHORIZED PERSONNEL ONLY

Such areas should be cleaned up as soon as possible by a State licensed asbestos abatement contractor. In the interim, access to the contaminated building areas should be restricted by limiting the availability of keys to these areas to personnel with appropriate asbestos-related training, who will enter only under the supervision and/or direction of the Asbestos Program Manager.

4.2.3 Awareness Program for Outside Contractors

Contractors hired to do work at Mystic Education Center shall be informed by the Asbestos Program Manager of the location of ACM in the work area to which they are assigned. Contractors shall, under no circumstances, damage or disturb ACM unless they are a licensed Asbestos Abatement Contractor and have been specifically employed to perform asbestos removal.

The Asbestos Program Manager shall provide contractors with either a copy of the completed Asbestos Work Authorization Form (reference Appendix E) or a copy of specific sections of the asbestos survey report pertaining to the areas where the work will occur.

The Asbestos Program Manager shall caution contractors that they shall not proceed with any change in work without prior approval. It will be the responsibility of the contractor to provide their own asbestos awareness program which shall include the information contained in this section.

4.3 Training Requirements

4.3.1 Custodial and Maintenance Training

All maintenance and custodial staff who perform duties involving potential contact with ACM but do not involve the removal or disturbance of ACM should receive two hours asbestos awareness training on an annual basis. Training will include:

1. Asbestos characteristics and typical uses of ACM

2. Health effects of asbestos exposure and the combined effects of smoking and asbestos exposure

3. Purpose of the Asbestos O&M Program

4. Recognition of damaged ACM, and the response that should be made if damaged ACM or suspect ACM is found

5. Summary of the types and locations of ACM in the building.

4.3.2 Operations and Maintenance (O&M) Worker Training

Maintenance personnel who perform duties that involve "Class III" asbestos activities under the OSHA Construction Standard shall receive 16 hours training by an EPA approved training provider including an 8 hour annual refresher. As discussed in Section 2.2, Class III operations include typical spot repairs such as removal of asbestos fitting insulation on a pipe elbow in order to repair a plumbing leak. Class III activities also include work involving incidental disturbance of asbestos, such as telecommunications or electrical work above a drop ceiling where asbestos insulation may be disturbed. The O&M worker training course should include the following elements:

1. Approved asbestos work practices and procedures

2. Implementation of operations, maintenance and repair programs

3. Worker protection, including use of personal protective equipment

4. Fiber release episodes

5. Hands-on training to include:

    a. Setting up containment

    b. Decontamination procedures

    c. Glove bag operations

    d. Use of tools and equipment approved for use with asbestos

6. Standard Work Practices and Procedures set forth in the O&M plan

7. Recordkeeping requirements

8. Review of requirements of the OSHA asbestos standard

4.3.3 Respirator Training

Employees required to wear respiratory protection and employees who perform Class III asbestos work shall receive training on respiratory protection and approved asbestos-related work practices and procedures. The training should include: an explanation of the importance of respirator use; proper procedures for inspection, use, maintenance and storage of the respirator; limitations of various types of respirators; and fit check procedures.

4.3.4 Building Occupant Awareness

Employees should be made aware of the existence of the Asbestos O&M Program, and be provided access to this document upon request. Employees should be made aware that ACM may be present in their workplace, and be cautioned that ACM is not to be damaged or disturbed except under controlled conditions by trained personnel.

Prior to the start of an asbestos abatement project, additional information should be provided to building occupants that will explain the work that is to be performed, and the measures that are being employed to protect them. This information will be made available either at group meetings, or by letter, the use of media resources, or a combination of the above.

4.4 Medical Surveillance

The OSHA Construction Standard requires that annual medical surveillance be provided to: employees who perform Class III (or Class I or II) work for a combined total of 30 or more days per year; employees exposed to asbestos at levels above the PEL; and employees who are issued a negative pressure respirator. As discussed previously, it is not expected that employees at Mystic Education Center will ever perform Class I or II activities (asbestos removal requiring a Connecticut Department of Public Health contractor's license). Class III activities (repair or maintenance involving disturbance of small quantities of ACM) can be performed by employees provided they are given the proper training and other applicable regulations are complied with as discussed in Section 2.0.

If employees performed Class III work for more than 30 days per year or were exposed to asbestos at levels above the PEL (as determined by exposure assessment), medical surveillance would be required. Medical surveillance is also required for employees issued a negative pressure respirator (standard cartridge filter respirator) in order to determine whether they are fit to wear it. Employees issued a powered air purifying respirator (PAPR) are not required to have medical surveillance unless their work meets one of the other conditions.

OSHA requires an exposure assessment be developed for any asbestos related tasks performed by employees, including Class IV work. It appears that respiratory protection may not be necessary for employees performing Class IV work (such as cleaning of vinyl floor tile) at the facility. If the exposure assessment confirms this, medical surveillance will not be required.

Medical surveillance involves: examination by a licensed physician including evaluation of pulmonary and gastrointestinal systems, including a chest roentgenogram to be administered at the discretion of the physician; and a standardized medical and work history questionnaire developed by OSHA.

4.5 Respiratory Protection Program

As discussed in Section 2.2, OSHA has developed a Respiratory Protection Standard (29 CFR 1910.134) applicable to all workplaces where respirators are issued or where they are necessary to protect employees. For employees who perform activities requiring respiratory protection (this generally would include all Class III activities), the Standard requires development and implementation of a written respiratory protection program including the following elements: procedures for respirator selection; medical evaluations of employees required to use respirators; fit testing procedures for tight-fitting respirators; procedures for respirator use; procedures for use of supplied air respirators where required; training of employees; and procedures for evaluating the effectiveness of the program.

Based on the nature of operations at Mystic Education Center, it does not appear that respiratory protection is necessary for employees performing Class IV work, though OSHA requires that an exposure assessment be developed to confirm this finding.

4.6 Reinspection and Periodic Surveillance

It is recommended that all identified asbestos-containing materials in the building be reinspected at least once annually by the on-site asbestos Program Manager. Any change in material condition shall be noted during this inspection and, if necessary, the relative hazard posed to building occupants by this material shall be assessed. If necessary, material repairs and/or minor abatement shall be performed at the first available opportunity to reduce or eliminate the hazard to building occupants.

A complete record of building inspections shall be maintained. A recordkeeping form for periodic surveillance is included in Appendix C. Completed forms should be kept with this O&M plan, in Appendix D.

4.7 Recordkeeping

All records mentioned in this Asbestos O&M Program shall be retained as required by the regulations and as necessary to maintain an effective program. These records shall include:

- The written O&M plan itself, including all revisions, changes and modifications
- All asbestos project (abatement, repair, encapsulation or enclosure) records including, as appropriate, survey records, project design or abatement specifications, air sampling data, daily project monitor logs, sign-in logs, waste disposal manifests, and invoices. The building area affected and material removed shall be clearly identified on the building drawings. Include information regarding abatement projects in Appendix K.
- Attendance records at all awareness and training programs (include in Appendix H).
- Medical surveillance records (if required) shall be maintained for 30 years past the last date of employment for an individual employee. Include any personal exposure monitoring (air sampling) data.

5.0 OPERATIONS AND MAINTENANCE (O&M) STANDARD WORK PRACTICES

Standard work practices and procedures (SWP) provide specific guidelines for certain asbestos-related work activities. Adherence to SWP will minimize the production of airborne asbestos fibers and will protect the worker and building occupants.

5.1 Notification

"Spot repair" asbestos work involving removal of less than 3 square or 3 linear feet may be performed by trained in-house asbestos personnel without notification to DPH. If the amount of ACM involved is more than that amount, the work must be done by a DPH licensed abatement contractor, with the exception of abatement of exterior nonfriable ACM, which does not require a DPH license.

Projects involving less than 10 linear feet or 25 square feet of ACM do not require notification to DPH, though EPA must be notified for any demolition work even if no ACM is present.

5.2 Work Order Permit System

No renovation or maintenance activity involving alteration of a building material should occur without prior review by the Asbestos Program Manager for the possibility of contact with or disturbance of ACM.

All personnel (including outside contractors) shall follow the guidelines of the Work Order Review System detailed in this document if they:

- Conduct maintenance, renovation or repair activities.
- Conduct work in asbestos contaminated work environments where deteriorated or damaged ACM may be present
- Conduct any other work or operation that potentially impacts ACM.

A copy of the Asbestos Work Authorization Form shall be maintained at the work site throughout the course of the project. A copy of the form to be used is included in Appendix D. Completed forms should be kept with this document, in Appendix F.

5.2.1 Purpose

The purpose of the work order review system is to allow the Asbestos Program Manager an opportunity to review all proposed renovation, maintenance or repair work that is to be completed internally by staff and/or outside contractors to insure that either:

- ACM will not be disturbed by the work
- Any damaged ACM present in the work area is repaired and the area cleaned before the work begins
- Suitable precautions are taken if the work has the potential to unintentionally disturb ACM (e.g. due to the physical configuration of the area and the location of the ACM in relation to the proposed work) or,
- The ACM that will be disturbed by the work is removed by a licensed asbestos abatement contractor under the supervision of a licensed Project Monitor hired for this purpose.

All ACM in the area of the work will be identified on the review form. When the work will be conducted in the vicinity of thermal system insulation (TSI), all ACM TSI in the immediate vicinity of the work area will be clearly identified with the OSHA "Danger" warning label, and non-ACM TSI with an "Asbestos Free" label as appropriate.

5.3 Exposure Monitoring

OSHA regulations require that "initial exposure assessments" be performed for asbestos work by employees. The most effective means of performing the assessment is through personal air monitoring. Separate monitoring is required for each type of operation such as removing an asbestos-containing pipe fitting, patching asbestos boiler insulation, cleaning asbestos tile, etc. The initial exposure assessment will determine whether respiratory protection is required for the employee. If the initial exposure assessment for a specific task determines that the employee's exposure will not exceed the permissible exposure limit (PEL) for asbestos of 0.1 fibers per cubic centimeter over an 8 hour period or the "short term" exposure limit (STEL or "ceiling" limit) of 1.0 fibers per cubic centimeter over a 30 minute period, the competent person may determine that personal air monitoring is not required for workers performing that task over the following 12 months. This determination is called a negative exposure assessment and must be based on specific criteria to ensure that the air sampling data for the prior work will be representative of the employee's exposure while performing the same task at a later date.

Personal air sampling methodology and analysis must conform to the OSHA requirements and be performed by a DPH licensed Project Monitor. A copy of personal air sampling results shall be made available to the employee for which the samples were secured within 15 days of receipt from the laboratory.

In some cases, OSHA may allow the use of "objective data" in lieu of air monitoring as a means of conducting an exposure assessment. The "objective data" are required to demonstrate that "the product or material containing asbestos minerals or the activity involving such product or material cannot release airborne fibers in concentrations exceeding the TWA and excursion limit (the permissible exposure limits) under those work conditions having the greatest potential for releasing asbestos". For work at Mystic Education Center involving contact with vinyl floor tile, it may be feasible to use objective data to produce a negative exposure assessment.

5.3.1 Air Sampling During Asbestos Projects

For asbestos abatement projects in occupied buildings, the OSHA Construction Standard requires the employers of the occupants to "take steps on a daily basis to ascertain the integrity of the enclosure and/or the effectiveness of the control method relied on by the primary asbestos contractor". For Mystic Education Center, this will be accomplished by an on-site DPH licensed Project Monitor coordinated by the DPW Asbestos Program. The Project Monitor shall collect air samples both inside and outside of the work area during the project. The Project Monitor will perform a final visual inspection when the work is complete and will secure final clearance air samples using aggressive air sampling techniques as outlined in DPH regulations.

Asbestos abatement contractors working at Mystic Education Center shall be responsible for securing air samples for their own personnel to meet the OSHA requirements. All air sampling results for abatement projects should be maintained on file at the facility.

5.4 Asbestos Spot Repairs

DPH regulations require that abatement of more than three (3) square feet or three (3) linear feet of regulated asbestos material (any ACM with the exception of exterior nonfriable material) be performed by a State licensed contractor. Abatement involving less than three (3) square feet or three (3) linear feet is termed a "spot repair" and does not have to be performed by a licensed contractor, though persons performing the work must be properly trained, specific engineering controls must be used, and waste must be properly disposed of at an authorized facility. Operators of facilities containing significant quantities of asbestos sometimes elect to provide training to in-house maintenance staff so that spot repairs can be performed without retaining an outside contractor. Examples of typical spot repairs include: removal of asbestos fitting insulation on a pipe elbow in order to repair a plumbing leak; removal of a small number of damaged asbestos floor tiles in order to replace them; replacement of an asbestos gasket; and patching of a small area of damaged asbestos pipe or boiler insulation.

Spot repair work is a Class III operation under the OSHA Construction Standard. An exposure assessment must be conducted for employees performing spot repairs. Personal air monitoring and use of a respirator is generally required unless a negative exposure assessment can be developed based on historical data. The most common type of spot repair conducted is removal of asbestos pipe insulation using a glovebag, as discussed in the following section.

5.5 Glovebag Removal of Pipe Insulation

Glovebag procedures can be used to remove small sections of pipe insulation as part of the O&M program. Workers with 16-hour O&M operations training may perform removal of up to 3 linear or 3 square feet of asbestos pipe insulation using a glovebag. Two workers are required to perform a glovebag procedure. The procedure is referred to as a "spot repair" under DPH regulations. The glovebag removal procedure is outlined below.

5.5.1 Equipment and Materials Required

The glovebag procedure typically requires the following materials and equipment:

- Glovebag (6-12 mil) fitted with long sleeves and a tool pouch
- Sprayers containing amended water
- Sprayers containing lock-down encapsulant
- Duct tape
- Polyethylene asbestos disposal bags (6 mil)
- HEPA vacuum cleaner
- Removal tools including saw, knife, stapler, scrapers, brushes, wire cutters and rags
- Polyethylene sheeting (6 mil)
- Respirators and disposable suits with hood and foot covering
- "Diplag" or comparable wettable cloth
- Hazard signs and labels
- Reinsulation materials
- Smoke tube kit to verify that glovebag installation is airtight

5.5.2 Glovebag Procedure

- Follow the manufacturer's directions where applicable. Use approved respirators and protective clothing
- Isolate the area and post warning signs on the perimeter
- Where feasible, shut down and seal off the HVAC serving the work area
- Fill the sprayer with a surfactant/water mixture
- Secure adjacent pipe as necessary
- Clean up any debris on the floor and other surfaces and cover the floor below the work area with 6 mil polyethylene sheeting
- Wrap duct tape around the pipe insulation at the boundaries of the work
- Slit the top of the glovebag open (if necessary) and cut down the sides to accomodate the size of the pipe with about two inches to spare
- Place the tools in the pouch in the glovebag including some pre-cut wettable cloth to fit the exposed insulation ends
- Place one strip of duct tape along the edge of the top slit of the glovebag for reinforcement when stapling
- Place the glovebag around the section of pipe to be worked on and staple the top together through the tape at intervals of about one inch
- Fold the stapled top flap back and tape it down with a strip of duct tape to seal along the top
- Tape the ends of the glovebag to the pipe
- Smoke test the bag for leaks. If leaks are found, tape closed using duct tape and re-test.
- Insert the wand from the water sprayer through the bag and tape tightly around the wand. One person works with the gloves while the second person directs the water spray at the work.

- Cut the pipe cover with the appropriate tool. Use the saw to cut the insulation at each end of the section to be removed.
- Slit the insulation from end to end using the knife along the bottom of the pipe.
- Lift the insulation from the pipe and gently place in bottom of bag.
- Scrape and scrub off pipe. Clean tools and place in pouch.
- Encapsulate the exposed insulation ends using a bridging or penetrating encapsulant as appropriate. Moisten and wrap the wettable cloth over the exposed insulation ends.
- Remove the water wand from the water sleeve and attach the HEPA vacuum. Turn on the vacuum just long enough to collapse the bag.
- Remove the vacuum, dry the plastic around the opening and seal with duct tape.
- From outside the bag, twist the tool pouch section. Place duct tape over the twisted portion and then cut the plastic at the tape to separate the tool bag from the glovebag.
- Discard rags and brushes with the asbestos waste.
- Twist the bag several times, tape it and slip a 6 mil disposal bag under it. Open the top of the glovebag and fold it gently into the disposal bag.
- Twist the top of the disposal bag, fold over and seal with duct tape. Place the sealed bag inside a second bag for disposal.
- HEPA clean any residue on the floor plastic, lightly mist and dispose of as asbestos waste.
- Wet clean and/or HEPA vacuum the work area.
- After cleaning is complete, remove the disposable suits, place in a waste bag, seal closed as above and contain in an outer bag.
- HEPA vacuum the exterior of the respirator before removing.
- Store waste in a secure area until it can be properly disposed of.

5.6 Maintaining and Cleaning Vinyl Asbestos Tile

The survey found vinyl asbestos tile (VAT) flooring throughout much of the facility. Though this material is typically non-friable, the frictional forces exerted on it during routine floor maintenance operations can cause asbestos fibers to be released. The OSHA Construction Standard prohibits sanding of VAT and requires that stripping of finishes be conducted using wet methods and low abrasion pads at speeds lower than 300 rpm. OSHA requires that burnishing or dry buffing be performed only on flooring which has sufficient finish so that the pad does not contact the tile. Personnel responsible for cleaning and maintaining vinyl asbestos tile should be given a minimum of two hours asbestos awareness training. The following additional measures are recommended for VAT maintenance:

- Perform stripping of tile finish coat as infrequently as possible (once per year if feasible). If possible, perform stripping when the building is unoccupied. As noted above, stripping should only be conducted only while the floor is wet using the least abrasive pad possible at speeds lower than 300 rpm.

- Prior to applying a finish coat to the tile, apply two to three coats of sealer. Continue to finish the floor with a high percent solid finish.

- If spray buffing or dry burnishing is used, always ensure that the floor has sufficient finish so that the pad does not contact the tile. Always operate the floor machine at the lowest rate of speed possible using the least abrasive pad possible.

- Use a wet mop for routine cleaning of finished floors whenever possible.

- Ensure that floor mats are used at all entrances during the winter months to reduce scuffing of the tile by sand and salt being tracked into the building.

5.7 Procedures for Asbestos Fiber Release Episodes

A fiber release episode is the falling or dislodging of ACM. Any such incident must be cleaned up by a Connecticut Department of Public Health (DPH) licensed asbestos abatement contractor.

The procedures to follow in the event of a fiber release episode are outlined below.

See

5.7.1 Fiber Release Episode General Procedures

- Restrict access to the area and post signs to prevent entry by unauthorized persons.
- Notify the Asbestos Program Manager immediately. DPW Statewide Services John Waytas of 860 539-2814
  → he/she should contact at
- Shut off air handling systems to prevent the distribution of fibers to other areas of the building.
  in due emergencies
- Building evacuation is appropriate if it is believed that asbestos fibers have been distributed to occupied areas.
- ? Notify the Department of Public Health Asbestos Program at (860) 509-7367, and the Department of Public Works Asbestos Program at (860) 713-5702.
- A minor fiber release episode (involving disturbance of less than 3 square feet and less than 3 linear feet of asbestos-containing material) ~~can be cleaned up by facility personnel, provided that they are trained and equipped properly. The cleanup would be an OSHA Class III operation and would require the use of respirators and protective clothing. Any loose ACM debris should first be cleaned up with a HEPA vacuum. Following vacuuming, the area where the debris fell should be wet with amended water and wiped up with an absorbent material. Asbestos debris, HEPA vacuum filters, mopheads and cloths should be placed in sealed leaktight containers and properly disposed of as asbestos waste.~~
- ~~The response action for major fiber release episodes cannot be conducted by in-house personnel.~~ The response action for any major fiber release episode must be designed by a DPH licensed Project Designer and conducted by a licensed abatement contractor. A licensed Project Monitor is required to conduct air sampling after completion of the response action to verify that the area is safe for reoccupancy.

→ must be cleaned up by a licensed asbestos abatement contractor.

6.0 SUMMARY OF OPERATIONS AND MAINTENANCE PROGRAM

6.1 Summary of Survey Findings

The survey identified the following types of asbestos-containing materials (ACM) in the several of the buildings at Mystic Education Center: vinyl floor tile and mastic; pipe and pipe fitting insulation; exterior window caulk and glazing

The following materials were found in isolated areas: soft ceiling surfacing material in the Administration Building Dining Room; one type of 12" square ceiling tile located in the Administration Building and Girls' Building; black tar adhesive used to affix blackboards to the wall in the Administration Building; heat exchanger insulation in the Durant Building; sheetrock joint compound in the Durant Building; suspended ceiling tile in the Girls' Building; a tar coating on cork ceiling lining in the basement cooler room in the Girls' Building; wall mortar material in the basement cooler room in the Girls' Building; and glue material used to affix bulletin boards to the walls in classroom areas in the Whipple Building.

Table 3 provides a summary of actions required to implement the O&M program. A preliminary list of abatement priorities is provided, along with cost estimates.

6.2 O&M Program Implementation

The O&M program is designed to further reduce the risk of accidental disturbance of asbestos. The following is a summary of actions necessary to begin implementation of the O&M program.

- Designate an Asbestos Program Manager to implement the O&M program and provide oversight of all asbestos related activities in the facility. The position of Asbestos Program Manager is typically held by the building engineer or facilities manager. The Asbestos Program Manager should also fulfill the duties of the "competent person" required by the OSHA Construction Industry Standard to oversee work involving potential disturbance of asbestos and ensure that employees are properly protected.

  At a minimum, the Asbestos Program Manager should have training consistent with EPA requirements for maintenance and custodial staff in school buildings. This training is 16 hours in duration and is commonly referred to as "O&M training". It is desirable that the Asbestos Program Manager have additional training, such as asbestos inspector/management planner training. Implementation of a work order review system is recommended to allow the Program Manager the opportunity to review all proposed renovation, maintenance or repair work that is to be completed internally by staff and/or outside contractors.

TABLE 3: RECOMMENDED RESPONSE ACTIONS FOR MYSTIC EDUCATION CENTER (IN ORDER OF PRIORITY)	
ITEM	**ESTIMATED COST**
1. Restrict access and post "Asbestos Debris" signs at entrance to: 1A. Girls' Building Boiler Room (Boiler Room for Whipple) (Post signs just inside at all entrance points to room. Signs are recommended as a precautionary measure, due to the presence of a small quantity of loose asbestos debris in the room. Signs are discussed in Section 5.2.2 of the O&M plan.)	---
2. Post "Asbestos Hazard" signs in routine maintenance areas, including: 2A. Girls' Building East Side of Basement Near Rooms G8/G13 2B. Durant Building Mech. Rm. 101 and SE Fan Room 2C. Rainbow House Boiler Room 2D. Admin. Bldg. Pipe Chase Rooms A129, A137, A144, A245 and A329 2E. ETC Pipe Crawlspace (Post signs just inside at all entrance points to room. Signs are discussed in Section 5.2.1 of the O&M plan)	---
3. Develop a plan for asbestos abatement at the facility, in order of priority. Prioritization is dependent on intended future uses of the buildings, as well as any pending maintenance projects and renovation plans. The following is a preliminary priority ranking, based on information currently available to DELTA:	
3A. **Girls' Building Boiler Room -** Clean loose debris. Remove intact asbestos insulation when feasible and reinsulate.	..... $9,000
3B. **Girls' Building Basement -** Remove asbestos pipe insulation and ceiling tile when feasible. Reinsulate piping. Remove vinyl asbestos floor tile in conjunction with other materials if cost effective.	..... $80,000
3C. **Girls' Building Second Floor -** Remove small quantity of damaged sheetrock with asbestos joint compound. Priority for removal of remaining sheetrock is use-dependent.	..... $2,000
3D. **Durant Building Sheetrock -** Priority for removal of sheetrock with asbestos joint compound is dependent on the intended future use of the building.	..... $520,000* *All sheetrock in Building.

TABLE 3: RECOMMENDED RESPONSE ACTIONS FOR MYSTIC EDUCATION CENTER (IN ORDER OF PRIORITY)	
3E. **Rainbow House Basement** - Remove small number of intact asbestos-containing mudded fittings when feasible to facilitate future maintenance work. pipe	..... $2,000
3F. **Durant Building Mechanical Rooms** - Remove intact asbestos insulation when feasible to facilitate future maintenance work.	..... $5,000
3G. **Administration Building Pipe Chases** - Remove asbestos insulation when feasible to facilitate future maintenance work.	..... $8,000
3H. **Whipple Building** - Remove loose floor tiles at Stairwell No. 1, ground floor landing.	..... $2,000
3I. **Crouter Building** - Remove friable asbestos materials as necessary (low priority - use dependent).	..... $5,000
6. Implement Periodic Surveillance and other O&M Program Elements (Summarized in Section 7.3 of the O&M Plan)	---

- OSHA hazard communications regulations require that the following persons be informed in writing of the presence, location and quantity of ACM in the building: employees who work in areas containing ACM; contractors bidding for work in areas containing ACM; other employers on multi-employer worksites with employees working in or adjacent to areas containing ACM; and tenants who occupy areas containing ACM. It appears that this requirement could be satisfied by informing the appropriate personnel of the availability of this O&M plan.

- Ensure that two-hour asbestos awareness training is provided for building maintenance personnel including any employees responsible for cleaning/maintaining the exposed vinyl asbestos tile. The training should include annual refreshers. Utilize the standard work practice procedures for cleaning and maintaining vinyl asbestos tile as outlined herein.

- Perform "initial exposure assessments" for any asbestos operations performed by employees (such as cleaning/maintaining vinyl asbestos tile). The most effective means of performing the assessment is through personal air monitoring. Separate monitoring is required for each type of operation.

  If the initial exposure assessment for a specific task determines that the employee's exposure will not exceed the permissible exposure limit (PEL) for asbestos of 0.1 fibers per cubic centimeter over an 8 hour period, the Asbestos Program Manager/competent person may determine that personal air monitoring is not required for workers performing that task over the following 12 months. This determination is called a negative exposure assessment and must be based on specific criteria to ensure that the air sampling data for the prior work will be representative of the employee's exposure while performing the same task at a later date.

  In some cases, OSHA may allow the use of "objective data" in lieu of air monitoring as a means of conducting an exposure assessment. The "objective data" are required to demonstrate that "the product or material containing asbestos minerals or the activity involving such product or material cannot release airborne fibers in concentrations exceeding the TWA and excursion limit (the permissible exposure limits) under those work conditions having the greatest potential for releasing asbestos". For work at Mystic Education Center involving contact with vinyl floor tile, it may be feasible to use objective data to produce a negative exposure assessment.

- It is recommended that all identified asbestos-containing materials in the building be reinspected at least once annually. Any change in material condition shall be noted during this inspection and, if necessary, the relative hazard posed to building occupants by this material shall be assessed.

- Place signs in routine maintenance areas where asbestos is present as required by the OSHA Construction Standard. The signs should identify the type of ACM present and its specific location in the area. The signs shall include the following text: DANGER. CONTAINS ASBESTOS FIBERS. AVOID CREATING DUST. CANCER AND LUNG DISEASE HAZARD. It is recommended that the signs also include a statement as follows: DO NOT DISTURB WITHOUT PROPER TRAINING AND EQUIPMENT. CONTACT THE ASBESTOS PROGRAM MANAGER (GIVE NAME AND PHONE NUMBER) FOR APPROVAL PRIOR TO ANY WORK INVOLVING TOUCHING OR DISTURBING THE ASBESTOS MATERIALS.

6.3 Actions Required to Perform OSHA Class III Operations

The following actions must be taken if employees will be asked to perform asbestos "spot repairs" (OSHA Class III operations).

- Provide sixteen-hour asbestos operations and maintenance training for any employees performing repair/maintenance operations involving intentional disturbance of asbestos, categorized as "Class III" operations by OSHA. Class III operations must not disturb more than 3 square feet or 3 linear feet of regulated ACM; work which exceeds these thresholds is categorized as an "asbestos project" by the Connecticut Department of Public Health and must be done by a licensed asbestos abatement contractor. Examples of Class III operations which may be applicable to Mystic Education Center include: removal of a small number of damaged asbestos floor tiles in order to replace them; and patching of a small area of damaged asbestos boiler breeching insulation. At the time of writing, it is DELTA's understanding that no Mystic Education Center employees have received training and therefore do not perform Class III work. **Mystic Education Center personnel must not perform Class III operations until they have received the proper training and equipment; any such work will have to be done by licensed abatement contractors in the interim.**

- Provide all necessary equipment for employees performing Class III work including hazard signs, respirators, HEPA vacuums and protective clothing. Ensure that Class III work is done using wet removal methods, airtight enclosures and other engineering controls required by DPH regulations for spot repairs.

- Perform "initial exposure assessments" for Class III and Class IV asbestos operations performed by employees. The most effective means of performing the assessment is through personal air monitoring. Separate monitoring is required for each type of operation such as removing an asbestos-containing fitting, patching asbestos boiler insulation, cleaning asbestos tile, etc. The initial exposure assessment will determine whether respiratory protection is required for the employee.

If the initial exposure assessment for a specific task determines that the employee's exposure will not exceed the permissible exposure limit (PEL) for asbestos of 0.1 fibers per cubic centimeter over an 8 hour period, the Asbestos Program Manager/competent person may determine that personal air monitoring is not required for workers performing that task over the following 12 months. This determination is called a negative exposure assessment and must be based on specific criteria to ensure that the air sampling data for the prior work will be representative of the employee's exposure while performing the same task at a later date.

- Provide respiratory protection and training in respirator use for employees performing Class III work where a negative exposure assessment cannot be produced. For practical purposes, respirators are required for any personnel performing Class III work. Respirators are also required for any areas where asbestos fiber levels exceed the PEL. OSHA requires that a written respiratory protection plan be developed.

- Provide annual medical surveillance for: employees who perform Class III (or Class I or II) work for a combined total of 30 or more days per year; employees exposed to asbestos at levels above the PEL; and employees who are issued a negative pressure respirator.

APPENDIX A

Glossary

GLOSSARY OF TERMS PERTAINING TO ASBESTOS MANAGEMENT

Abatement: Procedures to control fiber release from asbestos-containing materials including removal, encapsulation and enclosure.

Accessible: when referring to ACM, the material is subject to disturbance by building occupants or custodial or maintenance personnel in the course of their normal activities.

ACM: Asbestos-containing material. Defined as a material containing greater than one percent asbestos by volume per EPA Test Method 600 M/4 82-020.

Action Level: An airborne concentration of asbestos of 0.1 fiber per cubic centimeter of air (f/cc) calculated as an eight (8)-hour time-weighted average.

Acoustical Insulation: The general application or use of asbestos for the control of sound due to its lack of reverberant surfaces.

Acoustical Tile: A finishing material in a building usually found in the ceiling or walls for the purpose of noise control.

Adequately Wet: Sufficiently mix or penetrate with liquid to prevent the release of particulates. If visible emissions are observed coming from asbestos-containing material, then that material has not been adequately wet.

Aggressive Sampling: Air sampling which takes place after abatement and final clean-up while the air is being physically agitated to produce a "worst case" situation.

AIHA: American Industrial Hygiene Association

AIHA Accredited Laboratory: A certification given by the AIHA to an analytical laboratory that has successfully participated in the "Proficiency Analytical Testing" program for quality control as established by the National Institute for Occupational Safety and Health.

Airborne Asbestos Analysis: Determination of the amount of asbestos fibers suspended in a given amount of air.

Aircell: Pipe insulation with a fibrous, air-filled honeycomb center. This type of insulation typically contains asbestos.

Air Diffuser: A device designed to disperse an air stream throughout a given area.

Air Erosion: The passage of air over friable ACM which may result in the release of asbestos fibers.

Air Lock: A system of enclosures consisting of two polyethylene curtained doorways at least three feet apart that does not permit air movement between clean and contaminated areas.

Air Monitoring: The process of measuring the airborne fiber concentration of a specific quantity of air over a given amount of time.

Air Plenum: Any space used to convey air in a building or structure. The space above a suspended ceiling is often used as an air plenum.

Alternative Work Practice (AWP) - State of Connecticut Department of Public Health approved deviation from Asbestos Standards (Sections 19a-332a-1 to 19a-332a-16 inclusive). Alternative Work Practice methods may be used if pre-approved by DPH.

Ambient Air: The surrounding air or atmosphere in a given area under normal conditions.

Amended Water: Water to which a chemical wetting agent (surfactant) has been added to improve penetration into asbestos-containing materials that are being removed.

Amosite: An Asbestiform mineral of the amphibole group containing approximately 50% silicon and 40% Iron (II) Oxide, and is made up of straight, brittle fibers, light gray to pale brown in color.

Amphibole: One of the two major groups of minerals from which the Asbestiform minerals are derived, distinguished by their chain-like crystal structure and chemical composition.

ANSI: American National Standards Institute

Approved Landfill: A site for the disposal of asbestos-containing and other hazardous wastes that has been given EPA approval.

Asbestiform Minerals: Minerals which, due to their crystal structures and chemical composition, tend to be separated into fibers and can be classified as a form of asbestos.

Asbestos: Any of the following asbestiform minerals alone or in combination: chrysotile, amosite, crocidolite, tremolite, anthophyllite, actinolite, and any of these minerals that have been chemically treated and/or altered. Asbestos minerals are naturally occurring fibrous silicates.

Asbestos-containing Waste Materials: Regulated asbestos-containing material waste and materials contaminated with asbestos including disposable equipment and clothing, filters from control devices and bags or other similar packaging contaminated with commercial asbestos.

Asbestos Control Area - An area where asbestos abatement operations are performed which is isolated by physical boundaries which assist in the prevention of the uncontrolled release of asbestos dust, fibers, or debris. Two examples of an Asbestos Control Area are a "full containment" and a "glove-bag."

Asbestos Debris: Pieces of ACBM that can be identified by color, texture, or composition, or means dust, if the dust is determined by an accredited inspector to be ACM.

Asbestos Fibers: Fibers with their length being greater than five microns (length to width ratio of 3:1), generated from an asbestos-containing material.

Asbestosis: A non-malignant, progressive, irreversible lung disease caused by the inhalation of asbestos dust and characterized by diffuse fibrosis.

Asbestos Project: Asbestos Abatement disturbing 3 linear or 3 square feet of ACM or more.

Authorized Asbestos Disposal Facility - A location approved by the Connecticut Department of Environmental Protection for handling and disposing of asbestos waste or by an equivalent regulatory agency if the material is disposed of outside the State of Connecticut.

Bridging Encapsulant: The application of a sealant over the surface of asbestos-containing material to prevent the release of asbestos fibers.

Category I Nonfriable Asbestos-Containing Material (ACM): Asbestos-containing packing, gaskets, resilient floor covering, and asphalt roofing products containing more than 1 percent asbestos as determined using the method specified in appendix A, subpart F, 40 CFR part 763, section 1, Polarized Light Microscopy.

Category II Nonfriable ACM: Any material, excluding Category I nonfriable ACM, containing more than 1 percent asbestos as determined by using the methods specified in appendix A, subpart F, 40 CFR part 763, section 1, Polarized Light Microscopy that when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Cementitious: Asbestos-containing materials that are densely packed, granular and are friable.

CFM: Cubic feet per minute.

Chrysotile (White Asbestos): The only asbestiform mineral of the serpentine group which contains approximately 40% each of silica and magnesium oxide. It is the most common form of asbestos used in buildings.

Class I Asbestos Work - Activities involving the removal of Thermal Systems Insulation (TSI) and surfacing ACM and PACM.

Class II Asbestos Work - Activities involving the removal of ACM which is not thermal system insulation or surfacing material. This includes, but is not limited to the removal of asbestos-containing wallboard, floor tile and sheeting, roofing and siding shingles, and construction mastic.

Class III Asbestos Work - Repair and maintenance operations, where ACM, including thermal system and surfacing material, is likely to be disturbed.

Class IV Asbestos Work - Maintenance and custodial activities during which employees contact ACM and PACM and activities to clean up waste and debris containing ACM and PACM.

Clean Area: The first stage of the decontamination enclosure system in which workers prepare to enter the work area.

Competent Person - In addition to the definition in 29 CFR 1926.32(f), one who is capable of identifying existing asbestos hazards in the work place and selecting the appropriate control strategy for asbestos exposure, who has the authority to take prompt corrective measures to eliminate them, as specified in 29 CFR 1926.32(f): in addition for Class I and Class II work who is specially trained in a training course which meet the criteria of 40 CFR 763 (Appendix C to Subpart E - Asbestos Model Accreditation Plan).

Contaminated Items: Any objects that have been exposed to airborne asbestos fibers without being sealed off or isolated.

Contract Specifications: A set of guideline that a contractor must follow when conducting an asbestos abatement job.

Critical Barrier - A minimum of two layers of six (6) mil polyethylene sheeting taped securely over windows, doorways, diffusers, grilles and any other openings between the asbestos abatement work area and uncontaminated areas outside of the work area, including the outside of the building.

Curtained Doorway: A device to allow ingress or egress from one room to another while permitting minimal air movement between the rooms, typically constructed by placing two overlapping sheets of plastic over an existing or temporarily framed doorway, securing each along the top of the doorway, securing the vertical edge of one sheet along one vertical side of the doorway and securing the vertical edge of the other sheet along the opposite side of the doorway.

Damaged Friable Miscellaneous ACM: Friable miscellaneous ACM which has deteriorated or sustained physical injury such that the internal structure (cohesion) of the material is inadequate or, if applicable, which has delaminated such that its bond to the substrate (adhesion) is inadequate or which for any other reason lacks fiber cohesion or adhesion qualities. Such damage or deterioration may be illustrated by the separation of ACM into layers; separation of ACM from the substrate; flaking, blistering, or crumbling of the ACM surface; water damage; significant or repeated water stains, scrapes, gouges, mars or other signs of physical injury on the ACM. Asbestos debris originating from the ACBM in question may also indicated damage.

Damaged Friable Surfacing ACM: Friable surfacing ACM which has deteriorated or sustained physical injury such that the internal structure (cohesion) of the material is inadequate or which has delaminated such that its bond to the substrate (adhesion) is inadequate, or which, for any other reason, lacks fiber cohesion or adhesion qualities. Such damage or deterioration may be illustrated by the separation of ACM into layers; separation of ACM from the substrate; flaking, blistering,, or crumbling of the ACM surface; water damage; significant or repeat water stains, scrapes, gouges, mars or other signs of physical injury on the ACM. Asbestos debris originating from the ACBM in question may also indicate damage.

Damage or Significantly Damaged Thermal System Insulation ACM: Thermal system insulation ACM on pipes, boilers, tanks, ducts, and other thermal system insulation equipment where the insulation has lost its structural integrity, or its covering, in whole or in part, is crushed, water stained, gouged, punctured, missing, or not intact such that it is not able to contain fibers. Damage may be further illustrated by occasional punctures, gouges or other signs of physical injury to ACM; occasional water damage on the protective coverings/jackets; or exposed ACM ends or joints. Asbestos debris originating from the ACBM in question may also indicating damage.

Decontamination Unit: An enclosed area used during asbestos abatement. The unit consists of a series of connected rooms with polyethylene curtained doorways for the purpose of preventing contamination of areas adjacent to the work area. The unit consists of an equipment room, shower area, and clean room, which is used for the decontamination of workers, materials, and equipment contaminated with asbestos.

Delaminate: To separate into layers. As used here, to separate from the substrate.

Demolition: The wrecking or taking out of any load-supporting structural member and any related razing, removing, or stripping of asbestos products.

DEP - The Connecticut Department of Environmental Protection, 79 Elm Street, Hartford, CT 06106.

DPH - The Connecticut Department of Public Health, 410 Capitol Avenue, Hartford, CT 06134.

Differential Pressure - A difference in the static air pressure between the Work Area and occupied areas, and is developed by the use of HEPA filtered exhaust fans. This differential is generally in the range of 0.02 to 0.04 inches of water column.

Duct Tape: Heavy gauge tape capable of sealing joints or adjacent sheets of polyethylene.

Electron Microscopy: A method of asbestos sample analysis which utilizes an electron beam to differentiate between fibers.

Employee Notification: Informing employees or building occupants if asbestos is present in the building, also informing them of the hazards associated with asbestos exposure, what is being done to eliminate the problem, etc.

Encapsulant (sealant): A substance applied to asbestos-containing material which controls the release of airborne asbestos-fibers.

Encapsulation: The treatment of ACBM with a material that surrounds or embeds asbestos fibers in an adhesive matrix to prevent the release of fibers, as the encapsulant creates a membrane over the surface (bridging encapsulant) or penetrates the material and binds its components together (penetrating encapsulant).

Enclosure: An airtight, impermeable, permanent barrier around ACBM to prevent the release of asbestos fibers into the air.

Engineering Controls - Controls to include, but not be limited to, pressure differential equipment, decontamination enclosures, critical barriers and related procedures.

Equipment Decontamination Enclosure System - The portion of a Decontamination Enclosure System designed for controlled transfer of materials and equipment into or out of the Work Area, typically consisting of a Washroom and a Holding Area.

EPA: Environmental Protection Agency

EPA Regulations: Regulatory standards which cover emissions into the outside environment from a workplace and disposal of hazardous wastes from job sites.

Equipment Room (Change Room): A contaminated room located within the decontamination area that is supplied with impermeable bags or containers for the disposal of contaminated protective clothing and equipment.

f/CC: Fibers per cubic centimeter of air.

Fiber: A particulate form of asbestos, 5 micrometers or longer, with a length-to-diameter ratio of at least 3 to 1.

Fiber Release Episode: Any uncontrolled or unintentional disturbance of ACM resulting in visible emission.

Fibrous: Composed almost entirely of fibers.

Fireproofing: Spray-on or trowel-applied fire resistant materials.

Friable: A material, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure, and includes previously nonfriable material after such previously nonfriable material becomes damaged to the extent that when dry it may be crumbled, pulverized, or reduced to powder by hand pressure.

Friable Asbestos: Any material containing more that 1 percent asbestos that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.

Glove-Bag Technique - A method with limited applications for removing small amounts of friable asbestos-containing material from HVAC ducts, short piping runs, valves, joints, elbows, and other non-planar surfaces in a non-contaminated work area. Information on glove-bag installation, equipment and supplies, and work practices is contained in 29 CFR 1926.1101. The glove-bag assembly is a manufactured or fabricated device consisting of a glove-bag (typically constructed of six (6) mil polyethylene or polyvinyl chloride plastic), two inward projecting long sleeves, an internal tool pouch, and an attached, labeled receptacle for asbestos waste. The glove-bag is constructed and installed in such a manner that it surrounds the object or material to be removed and contains all asbestos fibers released during the process.

HEPA: High Efficiency Particulate Air (Air Filter). A filter capable of trapping and retaining at least 99.97 percent of all monodispersed particles of 0.3 micrometers in diameter or larger.

HEPA Filter Equipment - High-efficiency particulate air (HEPA) filtered vacuum and/or exhaust ventilation equipment with a filter system capable of trapping and retaining asbestos fibers. Filters shall be of 99.97 percent efficiency for retaining fibers of 0.3 microns in diameter or larger.

HEPA Filtered Vacuum: A high efficiency particulate air (HEPA) filtered vacuum capable of trapping and retaining 99.97% of all particulates larger than 0.3 microns.

Homogenous: Evenly mixed and similar in appearance and texture throughout.

Homogeneous Area: An area of surfacing material, thermal system insulation material, or miscellaneous material that is uniform in color and texture.

HVAC System: Heating, Ventilation, and Air Conditioning system.

Local Exhaust Ventilation: The mechanical removal of air contaminants from a point of operation.

Lock-down - The procedure of spraying polyethylene sheeting and building materials with an encapsulant type sealant to seal in non-visible asbestos-containing residue.

Major Fiber Release Episode - Any uncontrolled or unintentional disturbance of ACBM, resulting in a visible emission, which involves the falling or dislodging of more than 3 square or 3 linear feet of friable ACBM.

Minor Fiber Release Episode - Any uncontrolled or unintentional disturbance of ACBM, resulting in a visible emission, which involves the falling or dislodging of 3 square or linear feet or less of friable ACBM.

Medical Examinations: An evaluation of a person's health status conducted by a medical doctor.

Micron: One millionth of a meter.

Mil: Prefix meaning one-thousandth.

Negative Initial Exposure Assessment - A demonstration by the employer which complies with the criteria in 29 CFR 1926.1101(f)(2)(iii) that employee exposure during an operation is expected to be consistently below the PEL.

Negative Pressure: An atmosphere created in a work area enclosure such that airborne fibers will tend to be drawn through the filtration system rather than leak out into the surrounding areas. The air pressure inside the work are is less than that outside the work area.

Negative Pressure Enclosure (NPE) - An airtight enclosure for abatement where differential pressure is produced using exhaust ventilation equipment with HEPA filters.

NESHAP: National Emission Standards for Hazardous Air Pollutants - EPA Regulation 40 CFR subpart M, part 61.

NIOSH: The National Institute for Occupational Safety and Health which was established by the Occupational Safety and Health Act of 1970.

NIOSH/MSHA: The official approving agencies for respiratory protective equipment who test and certify respirators.

Nonfriable: Material which when dry may not be crumbled, pulverized, or reduced to powder by hand pressure.

Nonfriable Asbestos-Containing Material: Any material containing more that 1 percent asbestos that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Operations and Maintenance Program: A program of work practices to maintain ACM in good condition, ensure clean up of asbestos fibers previously released, and prevent further release by minimizing and controlling friable ACM disturbance or damage.

OSHA: The Occupational Safety and Health Administration which was created by the Occupational Safety and Health Act of 1970; serves as the enforcement agency for safety and health in the workplace environment.

PCM: Phase Contrast Microscopy.

PEL: Permissible Exposure Limit as stated by OSHA.

Penetrating Encapsulant: Liquid material applied to asbestos-containing material to control airborne fiber release by penetrating into the material and binding its components together.

Permissible Exposure Limits (PELS) - (1) Time-weighted Average Limit (TWA). The employer shall ensure that no employee is exposed to an airborne concentration of asbestos in excess of 0.1 fiber per cubic centimeter (f/cc) of air as an eight (8) hour time-weighted average (TWA). (2) Excursion Limit. The employer shall ensure that no employee is exposed to an airborne concentration of asbestos in excess of 1.0 fiber per cubic centimeter of air (1 f/cc) as averaged over a sampling period of thirty (30) minutes.

Personal Protective Equipment (PPE): Any material or device worn to protect a worker from exposure to, or contact with, any harmful material or force.

Personal Sample: An air sample taken with the sampling pump directly attached to the worker with the collecting filter placed in the worker's breathing zone.

PF: Protection factor is provided by the respirator which is determined by dividing the airborne fiber concentration outside of the mask by the concentration inside the mask.

Phase Contrast Microscopy (PCM): An optical microscopic technique used for the counting of fibers in air samples, but which does not distinguish fiber types.

Pipe Lagging: The insulation or wrapping around a pipe.

Polarized Light Microscopy (PLM): An optical microscopic technique used to identify asbestos and distinguish between different types of asbestos fibers by their shape and unique optical properties.

Polyethylene: Plastic sheeting which is often used to seal off an area in which asbestos removal is taking place for the purpose of preventing contamination of other areas.

Pre-Clean - The process of cleaning an area before asbestos abatement activities begin to ensure all dust and debris in the area considered to be asbestos-containing are properly contained and disposed of. This increases the likelihood the area will pass aggressive air sampling clearance requirements after asbestos-containing materials have been removed.

Project Monitor - The certified and licensed individual contracted or employed by the building owner or contractor to supervise and/or conduct air monitoring and analysis schemes. This individual is responsible for recognition of technical deficiencies in procedures during both planning and on-site phases of an abatement project. Requirements for Project Monitor are defined in the Connecticut Department of Public Health Regulations (Sections 20-440-1 through 20-440-9 inclusive). In addition to these requirements, this person shall be listed in the American Industrial Hygiene Association's Asbestos Analysts Registry.

Protective Clothing: Protective, lightweight garments (such as Tyvek suits) worn by workers performing asbestos abatement to keep gross contamination off the body.

Pulmonary Function Tests: A part of the medical examination required to determine the health status of a person's lungs.

Qualitative Fit Test: A method of testing a respirator's face-to-facepiece seal by covering the inhalation or exhalation valves and either breathing in or out to determine the presence of any leaks.

Regulated Area - Area established by the employer to demarcate areas where Class I, II and III work is conducted, and any adjoining area where debris and waste from such asbestos work accumulate; a work area within which airborne concentrations of asbestos exceed or there is a reasonable possibility they may exceed the PEL.

Regulated Asbestos-Containing Material (RACM): Means (a) Friable asbestos material, (b) Category I nonfriable ACM that has become friable, © Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by this subpart.

Removal: The taking out or stripping asbestos or materials containing asbestos.

Resilient Floor Covering: Asbestos-containing floor tile, including asphalt and vinyl floor tile, and sheet vinyl floor covering containing more than 1 percent asbestos as determined using polarized light microscopy.

Respirable: Breathable.

Respiratory Protection Program: A written program established by an employer which provides for the safe use of respirators by employees.

Response Action: A method, including removal, encapsulation, enclosure, repair, operations and maintenance, that protects human health and the environment from friable ACM.

Routine Maintenance Area: An area, such as a boiler room or mechanical room, in which maintenance employees or contract workers regularly conduct maintenance activities.

Serpentine: One of the two major groups of minerals from which the asbestiform minerals are derived, distinguished by their tubular structure and chemical composition.

Shower Room: A room between the clean room and the equipment room in a worker decontamination system in which workers take showers when leaving the work area.

Significantly Damaged Friable Miscellaneous ACM: Damaged friable miscellaneous ACM where the damage is extensive and severe.

Significantly Damaged Friable Surfacing ACM: Damaged friable surfacing ACM in a functional space where the damage is extensive and severe.

Substrate: The materials or existing surface located under or behind the asbestos-containing material.

Surfacing ACM: Surfacing material that is ACM.

Surfacing Material: Material in a school building that is sprayed-on, troweled-on, or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, or other purposes.

Surfactant: a chemical wetting agent added to water to improve its penetration abilities into asbestos-containing materials.

Thermal System Insulation: Material in a school building applied to pipes, fittings, boilers, breeching, tanks, ducts, or other interior structural components to prevent heat loss or gain, or water condensation, or for other purposes.

Thermal System Insulation ACM: Means thermal system insulation that is ACM.

Transmission Electron Microscopy (TEM): A method of microscopic analysis which utilizes an electron beam that is focused onto a thin sample. As the beam penetrates (transmits) through the sample, the difference in densities produces an image on a fluorescent screen from which samples can be identified and counted.

TWA: Time Weighted Average, as in air sampling.

USEPA: United States Environmental Protection Agency

Visible Emissions: Any emissions, which are visually detectable without the aid of instruments, coming from RACM or asbestos-containing waste material, or from any asbestos milling, manufacturing, or fabricating operation. This does not include condensed, uncombined water vapor.

Washroom: A room between the work are and the clean room in the equipment decontamination enclosure system where workers shower.

Waste Shipment Record: The shipping document, required to be originated and signed by the waste generator, used to track and substantiated the disposition of asbestos-containing waste material.

Water Damage: Deterioration or delamination of ceiling or wall materials due to leaks from plumbing or cracks in the roof.

Wet Cleaning: The process of eliminating asbestos contamination from surfaces and objects by using cloths, mops, or other cleaning tools which have been dampened with water.

Wetting Agents: Materials that are added to water which is used for wetting the asbestos-containing material in order for the water to penetrate more effectively.

APPENDIX B

Equipment Description for Standard O&M Procedures

Equipment Description for Standard O&M Procedures

All equipment used for O&M work practices or response actions shall be approved for use in asbestos operations. In general, some or all of the following materials and/or equipment may be required for asbestos work:

Airless Sprayer: Airless sprayers are used to apply amended water to ACM.

Asbestos Disposal Bags: 6-mil Polyethylene bags that are pre-printed with the following: "Danger; Contains Asbestos Fibers; Avoid Creating Dust; Cancer and Lung Disease Hazard; and "RQ Hazardous Substance; Solid, NOS (ASBESTOS); NA 9188; (ORM-E)". Bags shall also be individually labeled with the project, site, building owner and name of the group that removed the asbestos.

Asbestos Hazard Signs: Hazard signs shall be posted at each entrance to an asbestos work zone or a fiber release area. Signs shall conform to the OSHA requirements.

Barrier Tape: Barrier tape specific to asbestos-related work shall be used to demarcate a regulated area when the work area is not isolated by physical boundaries (e.g walls with lockable doors).

Disposable Coveralls: Disposable, impervious coveralls, equipped with head and foot covers, that are used on asbestos projects to prevent gross contamination from contacting the worker. Most disposable coveralls are made of Tyvek or spun breathable fabrics.

Encapsulant: A liquid material which can be applied to an asbestos-containing material to seal it and help prevent asbestos fiber release. Materials used for this purpose are commonly referred to as "bridging" or "penetrating" encapsulants. Encapsulants are also used to seal surfaces from which asbestos has been removed. These materials are known as "lockdown" encapsulants and help to immobilize microscopic fibers which remain after asbestos abatement.

Glovebag: A pre-fabricated plastic enclosure commonly used for "spot repair" or removal of small sections of pipe insulation.

HEPA Vacuum Equipment: Such vacuums, designed to be used with a HEPA filter, are available in various sizes and capacities, and can be used with attachments on drills, saws and other tools.

Respirators:A device used to protect against inhalation hazards. Respiratory protection should conform to the OSHA requirements.

Polyethylene sheeting (poly): Poly is used to construct critical barriers, to protect finishes, and to contain the release of airborne asbestos from the work area. The poly is generally attached using spray glue and duct tape.

Surfactant: A chemical wetting agent added to water that is used to wet ACM. This "amended water" penetrates more effectively than normal water, and permits more thorough soaking of the ACM prior to removal or disturbance.

APPENDIX C

Periodic Surveillance Form

REINSPECTION OF ASBESTOS-CONTAINING MATERIALS
MYSTIC EDUCATION CENTER, MYSTIC, CT

LOCATION (Building/Room Number): _____

TYPE OF MATERIAL: _____

LOCATION WITHIN ROOM: _____

DATE OF REINSPECTION: _____

DATE OF LAST INSPECTION: _____

ASSESSMENT:

1. EVIDENCE OF PHYSICAL DAMAGE:_____
_____

2. EVIDENCE OF WATER DAMAGE:_____
_____

3. DEGREE OF ACCESSIBILITY OF MATERIAL:_____
_____

4. DEGREE OF ACTIVITY NEAR THE MATERIAL:_____
_____

5. IS MATERIAL LOCATED IN AN AIR PLENUM OR AIR SHAFT?:_____
_____

6. OTHER OBSERVATIONS:_____
_____

7. **RECOMMENDED ACTIONS/LEVEL OF PRIORITY:**_____
_____

EXAMPLES/GUIDANCE

* FOR ITEM #3, PIPE FITTINGS ABOVE A SUSPENDED CEILING AND VINYL FLOOR TILE BENEATH CARPET ARE EXAMPLES OF MATERIALS WHICH WOULD TYPICALLY HAVE A LOW LEVEL OF ACCESSIBILITY. EXPOSED VINYL FLOOR TILE WOULD TYPICALLY HAVE A HIGH LEVEL OF ACCESSIBILITY.

** FOR ITEM #4, A STORAGE CLOSET WOULD TYPICALLY HAVE A LOW LEVEL OF ACTIVITY, WHILE A CORRIDOR NEAR OFFICE AREAS WOULD HAVE A HIGH LEVEL OF ACTIVITY.

INSPECTOR NAME: _____ SIGNATURE:_____

APPENDIX D

Completed Periodic Surveillance Forms

APPENDIX E

Asbestos Job Request/Work Authorization Form

JOB REQUEST FORM FOR MAINTENANCE WORK
MYSTIC EDUCATION CENTER
MYSTIC, CT

REQUESTED BY: _____ DATE: _____

PLANNED WORK START DATE: _____ FINISH DATE: _____

LOCATION OF WORK (ROOM NUMBERS): _____

DESCRIPTION OF WORK (INCLUDE SPECIFIC AREAS/MATERIALS AFFECTED): _____

_____

_____

_____

_____

_____

_____

DESCRIPTION OF ANY ASBESTOS-CONTAINING MATERIALS WHICH MAY BE AFFECTED, IF KNOWN. PROVIDE LOCATION AND TYPE: _____

_____

_____

_____

_____

_____

REVIEWED BY ASBESTOS PROGRAM MANAGER: _____
(SIGNATURE / DATE)

DECISION BY ASBESTOS PROGRAM MANAGER (**CIRCLE ONE**):

APPROVED (DESCRIBE ANY CONDITIONS):_____

_____

_____

_____

DENIED: ASBESTOS IS PRESENT AND MAY BE DISTURBED. ABATEMENT BY AN OUTSIDE ASBESTOS CONTRACTOR MUST BE COMPLETED PRIOR TO INITIATION OF THE IN-HOUSE MAINTENANCE WORK.

NOTE:

THIS FORM IS TO BE SUBMITTED FOR ALL MAINTENANCE WORK. THE FORM MUST BE REVIEWED AND APPROVED BY THE ASBESTOS PROGRAM MANAGER PRIOR TO THE START OF ANY WORK. IF APPROVED, THE PROGRAM MANAGER SHALL ATTACH AN AUTHORIZATION FORM TO THIS REQUEST AND RETURN IT TO THE REQUESTOR.

AUTHORIZATION FORM FOR MAINTENANCE WORK
MYSTIC EDUCATION CENTER
MYSTIC, CT

AUTHORIZATION IS GIVEN TO PROCEED WITH THE WORK DESCRIBED ON THE ATTACHED REQUEST FORM. AUTHORIZATION IS BASED ON THE FOLLOWING DETERMINATION BY THE ASBESTOS PROGRAM MANAGER:

____ ASBESTOS MATERIALS ARE NOT PRESENT IN THE VICINITY OF THE WORK

____ ASBESTOS IS PRESENT, BUT ITS DISTURBANCE IS NOT ANTICIPATED

WORK PRACTICES TO BE FOLLOWED IF ASBESTOS IS PRESENT: _____

_____
_____
_____
_____
_____
_____
_____
_____
_____

NOTE: WORK SHALL BE PERIODICALLY MONITORED BY THE PROGRAM MANAGER TO ENSURE THAT ASBESTOS IS NOT DISTURBED. IF ACCIDENTAL DISTURBANCE OCCURS, NOTIFY THE PROGRAM MANAGER IMMEDIATELY.

AUTHORIZED BY ASBESTOS PROGRAM MANAGER: _____
(SIGNATURE / DATE)

APPENDIX F

Completed Job Request/Work Authorization Forms

APPENDIX G

Training Schedule

MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT
ASBESTOS TRAINING SCHEDULE

NAME	PROGRAM RESPONSIBILITY*	HOURS OF INITIAL TRAINING**	DATE OF INITIAL TRAINING	DATES OF REFRESHER TRAINING
	PROGRAM MGR.			
	MAINTENANCE STAFF			
	MAINTENANCE STAFF			
	MAINTENANCE STAFF			

* List the person's responsibilities with respect to the asbestos program, i.e., Program Manager, O&M Worker, Maintenance Staff.

** It is recommended that the Program Manager have at least 16 hours of training. Maintenance staff who do not handle asbestos should have at least 2 hours of awareness training.

APPENDIX H

Personnel Training Records

APPENDIX I

DPW Asbestos Abatement Request Form 33

HAZARDOUS MATERIAL INSPECTION/ABATEMENT REQUEST

TO: Jerry Glassman/ John Wytas
Statewide Services – Room 250
DPW-Asbestos/Lead Management
165 Capitol Avenue, Hfd., CT 06106

Tel. 860 713-5709
Tel.:860-713-5702
FAX: 860-713-7250

FROM: _____ TEL.: _____

_____

_____

_____

(Mailing Address)

DATE: _____, 2000

BUILDING NAME: _____ DPW # _____

ADDRESS: _____

PROJECT TYPE: _____ (Asbestos/Lead/Outdoor/Indoor/Air Quality

Capital (>$50K) Term (<$50K and/or time issue) Not known yet
(Circle One)

REQUESTED COMPLETION DATE OF INSPECTION: ____/____/____

TYPE OF INSPECTION/ABATEMENT REQUEST:
(Circle One)

_____ASBESTOS (circle): Roof, Floor, Tile, Piping, Ceiling Tile, Transite, or Other: _____
If asbestos in roof, please complete the following:
Bond or Warranty: _____
Access to roof from: _____

_____LEAD (circle): Paint, Piping, Soil, Water, Roofing Material, or Other: _____
(PLEASE INDICATE FUNDING SOURCE _____)

_____INDOOR AIR QUALITY (Describe Briefly): _____

_____

(PLEASE INDICATE FUNDING SOURCE _____)

SCOPE OF ASB. ABATEMENT (if applicable) _____

_____

_____

BUILDING AREA DESCRIPTION:
Specific Area in Question: _____

ON SITE/CONTACT PERSON: _____ TEL. # _____

AGENCY REPRESENTATIVE: _____ TEL. # _____

A/E CONSULTANT: _____ TEL. # _____

5/23/00

DESIGNREV (33)
HAZARDOUS MATERIAL INSPECTION REQUEST

APPENDIX J

Lead and Asbestos Survey Reports for Individual Buildings

APPENDIX K

Records of Asbestos Abatement Projects

ASBESTOS OPERATIONS AND MAINTENANCE PLAN

MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

PREPARED BY: DELTA Environmental Services, Inc.

DPW PROJECT NUMBER: BI-2B-105 (ASB)

ISSUE DATE: November 2001

DELTA
ENVIRONMENTAL
SERVICES®, INC.

81 Schoolground Road
P.O. Box 564, Branford, CT
(203) 481-7668

ASBESTOS OPERATIONS AND MAINTENANCE PLAN

MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

PREPARED BY: DELTA Environmental Services, Inc.

DPW PROJECT NUMBER: BI-2B-105 (ASB)

ISSUE DATE: November 2001

DELTA Environmental Services,® Inc.

MYSTIC EDUCATION CENTER
OPERATIONS AND MAINTENANCE PROGRAM
TABLE OF REVISIONS AND UPDATES

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APPENDIX J - Records of Asbestos Abatement Projects

NOTE: ITEMS IN BOLD TYPE REQUIRE REGULAR UPDATING BY ASBESTOS PROGRAM MANAGER!!

1.0 INTRODUCTION

The Department of Public Works has implemented an Asbestos Operations and Maintenance (O&M) Program at the Mystic Education Center facility at 240 Oral School Road in Mystic, Connecticut. The purpose of the program is to: ensure the safety of employees who may directly contact and/or work in the vicinity of asbestos-containing materials (ACM); and to minimize the exposure of all building occupants, visitors, maintenance and custodial personnel to airborne asbestos fibers. This document was created as a guideline for all participants in the program.

The principal objective of the Asbestos Operations and Maintenance Program is to minimize the exposure of building occupants, visitors, maintenance and custodial personnel to airborne asbestos fibers by:

- The survey, inventory and periodic reassessment of all asbestos-containing materials (ACM). The purpose of the periodic reassessment is to monitor the condition of ACM.
- Appointment of a properly trained Asbestos Program Manager/Competent Person to oversee all on-site activities involving ACM.
- Awareness training of building maintenance personnel and other individuals who may encounter ACM during their normal work activities.

1.1 Site Description

Mystic Education Center is a seven-building campus-type facility. The property consists of approximately 122 acres and 250,000 square feet of building floor space. The oldest buildings on the campus (the "Girls' Building" and "Rainbow House") were constructed in 1928. The "Main Building" (also known as the "Administration Building") was constructed in 1944. The Crouter building was constructed in the 1950's. The Whipple Building was constructed in 1968. The Pratt and Durant buildings were constructed in 1974. Uses of the buildings vary and include: day programs run by the Department of Mental Retardation (DMR); apartments for approximately twenty full-time residents under the care of DMR; and office space leased to the Engineering Technology Center, a private corporation. Large portions of the buildings were vacant at the time of issuance of this O & M plan.

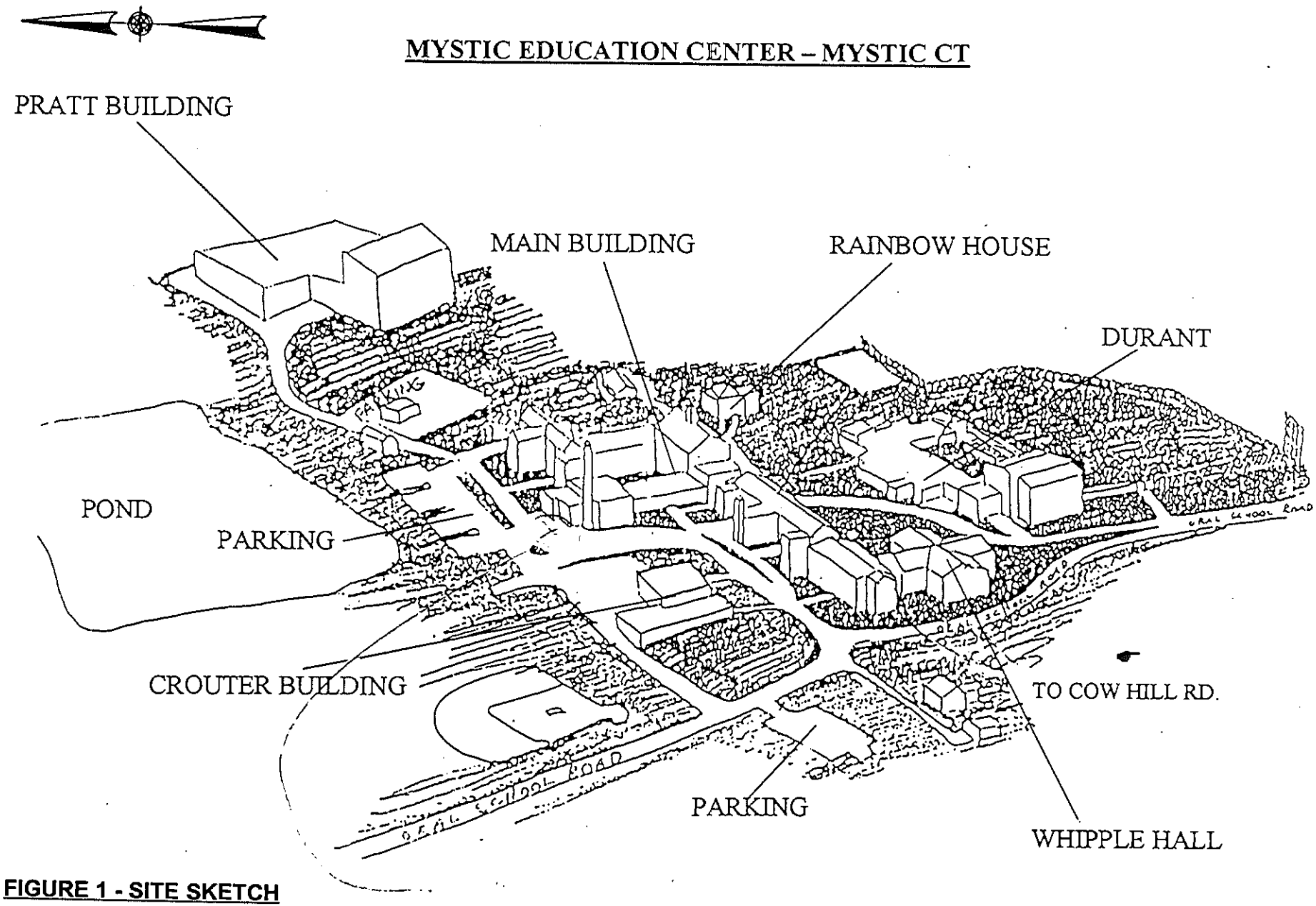

FIGURE 1 - SITE SKETCH
Mystic Education Center
Mystic, Connecticut

DELTA Environmental Services,® Inc.

1.2 Description of Facility's Asbestos Handling Policy

The policy of Mystic Education Center is that facility personnel shall not handle asbestos materials. All asbestos abatement projects at the facility shall be conducted by Connecticut licensed asbestos abatement contractors.

The policy applies to routine asbestos removal projects as well as cleanup of asbestos fiber release episodes. A description of the procedure to be followed in the event of an asbestos fiber release episode is contained herein.

Asbestos abatement work at the facility will be coordinated with the Department of Public Works Asbestos Management Section. Facility personnel shall use the following procedure for requesting asbestos abatement services:

- Notify DPW of the reason for the request and the immediacy of action required (i.e. emergency or non-emergency). The Contact Person is:

  Mr. John Wytas
  Phone: (860) 713-5702
  Fax: (860) 713-7250

- Complete DPW Form 33 (copy included in Appendix I) and fax it to DPW at (860) 713-7250.

2.0 REGULATORY SUMMARY

The following is a brief summary of selected State and Federal regulations pertinent to asbestos activities at Mystic Education Center. Specific recommendations concerning compliance with these regulations are included in Section 6.0 of this report.

2.1 Connecticut Department of Public Health (DPH) Regulations

Connecticut General Statutes Sections 19a-332a-1 through 19a-332a-16 outline specific requirements for asbestos abatement projects which are enforced by DPH. Asbestos abatement contractors who perform work at Mystic Education Center are subject to the regulations. In general, the regulations require: advance notification to DPH prior to initiation of any abatement project, posting of hazard signs and restricting access to abatement areas, specific engineering controls to prevent asbestos fiber release, post abatement air sampling to verify that the area is safe for reoccupancy, and disposal of asbestos waste at an authorized facility.

2.2 Federal Occupational Safety and Health Administration (OSHA) Regulations

The facility is subject to the OSHA Asbestos Standard for the Construction Industry (29 CFR 1926.1101). In the context of the standard, "construction" refers to "alteration, repair, maintenance, or renovation of structures, substrates, or portions thereof, that contain asbestos". The definition includes asbestos removal.

Though asbestos removal at Mystic Education Center is performed by outside contractors, it should be noted that the OSHA Construction Standard imposes specific hazard communication duties on facility owners and operators, as outlined in 29 CFR 1926.1101 (k). The standard requires identification of ACM (through a building survey) and hazard communication as discussed below.

The standard has specific requirements for various types of asbestos activities, which are divided into four work classes. Class I and II work involves asbestos removal. Class III activities are repair and maintenance operations where a small quantity (up to one standard glovebag) of asbestos is likely to be disturbed. Employees working at Mystic Education Center do not perform Class I, II or III activities.

Class IV work is defined as: maintenance and custodial activities during which employees contact but do not disturb asbestos; and activities to clean up dust, waste and debris resulting from Class I, II and III activities. Class IV activities performed at Mystic Education Center may include maintenance work involving contact without disturbance of asbestos-containing materials. These materials include vinyl floor tile and thermal systems insulation.

A summary of the requirements of the OSHA Construction Standard pertinent to Mystic Education Center follows:

- Identify asbestos-containing materials in the building as required by Section (k) (2) (I) of the regulation. This has been achieved through DELTA's recently completed asbestos survey reports.

- Post asbestos warning signs inside or at the entrance to mechanical rooms where ACM is present and where employees and outside contractors reasonably can be expected to enter. The signs should identify the specific ACM present and its location in the area.

- As required by Section (k) (2) (ii) of the regulation, inform the following persons in writing of the presence, location and quantity of ACM in the building: employees who work in areas containing ACM; contractors bidding for work in areas containing ACM; other employers on multi-employer worksites with employees working in or adjacent to areas containing ACM; and tenants who occupy areas containing ACM. It appears that this requirement could be satisfied by informing the appropriate persons of the availability of this O&M plan.

- Designate a "competent person" (as defined by OSHA) to oversee work involving potential disturbance of asbestos and ensure that employees are properly protected. The "competent person" is required to have specific asbestos training. For facilities where employees perform Class IV operations, OSHA requires the competent person to have training consistent with EPA requirements for maintenance and custodial staff in school buildings. This training is 16 hours in duration and is commonly referred to as "O&M training".

- The "competent person" is required to perform "initial exposure assessments" for any asbestos operations performed by employees. The exposure assessment is typically made through personal air monitoring of workers to determine whether their exposure exceeds OSHA's permissible exposure limits (PEL). The initial exposure assessment is used to determine whether respiratory protection is required for the employee.

  If the initial exposure assessment for a specific task determines that an employee's exposure will not exceed the PEL of 0.1 asbestos fibers per cubic centimeter over an 8 hour period (the "time-weighted average" or "TWA") or 1.0 asbestos fibers per cubic centimeter over a 30 minute period (the "excursion level"), the competent person may determine that personal air monitoring is not required for workers performing that task over the following year. This determination is called a negative exposure assessment and must use specific criteria to ensure that the air sampling data for the prior work will be representative of an employee's exposure while performing the same task at a later date.

  In some cases, OSHA may allow the use of "objective data" in lieu of air monitoring as a means of conducting an exposure assessment. The "objective data" are required to demonstrate that "the product or material containing asbestos minerals or the activity involving such product or material cannot release airborne fibers in concentrations exceeding the TWA and excursion limit (the permissible exposure limits) under those work conditions having the greatest potential for releasing asbestos".

For work at Mystic Education Center involving buffing and cleaning of asbestos-containing vinyl floor tile, it may be feasible to use objective data to produce a negative exposure assessment. Specifically, adherence to the work procedures outlined in Section 5.3 could be used as a basis for a negative exposure assessment indicating that the tile would not release asbestos fibers at levels exceeding the TWA under these conditions.

- Provide two (2) hour awareness training for any maintenance employees and other employees who perform Class IV work. The training should be done by an EPA certified training provider.

- Provide annual medical surveillance for any employees exposed to asbestos at levels above the PEL and employees who are issued a negative pressure respirator (standard cartridge filter respirator). Any employees issued a powered air purifying respirator (PAPR) are not required to have medical surveillance unless they are exposed to asbestos at levels above the PEL.

- Asbestos floor tile maintenance should be done using wet methods. Stripping should be done using low abrasive pads with the machine operated at speeds below 300 RPM. Burnishing and dry buffing should be done only with a coating of wax on the floor. Methods for maintenance of ACM tile are discussed in more detail in Section 5.3.

In addition to the Construction Standard, OSHA has an Asbestos Standard for General Industry (29 CFR 1910.1001). The general industry standard primarily applies specifically to the auto repair industry, though it also governs housekeeping operations involving asbestos which are not related to construction activities. The General Industry Standard requires: exposure monitoring of employees; hazard communication; and medical surveillance/respiratory protection for certain employees.

The provisions of the Construction Standard are more stringent and specific than the General Industry Standard, though they contain similar requirements for hazard communication. For the purposes of the Mystic Education Center O&M program, the Construction Standard takes precedence over the General Industry Standard.

- OSHA has developed a Respiratory Protection Standard (29 CFR 1910.134) applicable to all workplaces where respirators are issued or where they are necessary to protect employees. The Standard requires development and implementation of a written respiratory protection program including the following elements: procedures for respirator selection; medical evaluations of employees required to use respirators; fit testing procedures for tight-fitting respirators; procedures for respirator use; procedures for use of supplied air respirators where required; training of employees; and procedures for evaluating the effectiveness of the program. Based on the nature of operations at Mystic Education Center, it does not appear likely that respiratory protection is necessary for employees performing Class IV work, though OSHA requires that an exposure assessment be developed to confirm this finding.

2.3 Environmental Protection Agency (EPA) Regulations

The National Emission Standards for Hazardous Air Pollutants (NESHAP) govern building renovation and demolition projects. The asbestos NESHAP standard is 40 CFR Part 61 Subpart M of the Clean Air Act. The standard requires: asbestos inspection of buildings planned for renovation or demolition; advance notification to EPA or DPH prior to the start of asbestos abatement projects; specific engineering controls and work practices for asbestos abatement; supervision of the work by trained personnel; asbestos waste manifest tracking; and waste disposal at a permitted facility.

3.0 SUMMARY OF ASBESTOS SURVEY FINDINGS

A summary of DELTA's findings for each of the buildings at the facility is provided below. Table 1 summarizes the types and quantities of asbestos-containing materials found in each building and provides abatement cost estimates. Table 2 provides a summary of the cost estimates for the entire facility.

Administration Building

The survey identified the following asbestos-containing materials (ACM) in the Administration Building: various types of vinyl floor tile and mastic; pipe and pipe fitting insulation; soft ceiling surfacing material in the Dining Room; one type of 12" square ceiling tile located at the west side of the second floor corridor; and exterior window glazing.

TABLE 1: SUMMARY OF IDENTIFIED ACM AND ABATEMENT COST ESTIMATES
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

Building/Description	Quantity	Unit	Unit Cost	Subtotal Cost	Consultant (20%)	Contingency (10%)	Total Cost
ADMINISTRATION BUILDING							
REMOVAL							
Thermal Systems Insulation	226	SF	$10.00	$2,260	$452	$271	$2,983
Thermal Systems Insulation	3,224	LF	$15.00	$48,360	$9,672	$5,803	$63,835
Surfacing (Ceiling)	3,700	SF	$12.50	$46,250	$9,250	$5,550	$61,050
Misc. (VAT/Mastic)	7,145	SF	$5.00	$35,725	$7,145	$4,287	$47,157
Misc. (Ceiling Tile)	500	SF	$5.00	$2,500	$500	$300	$3,300
REPLACEMENT							
Thermal Systems Insulation	226	SF	$10.00	$2,260	$452	$271	$2,983
Thermal Systems Insulation	3,224	LF	$15.00	$48,360	$9,672	$5,803	$63,835
Surfacing		SF	N/A				
Misc.		SF	N/A				
GRAND TOTAL				$185,715	$37,143	$22,285	$245,143
ABATEMENT ESTIMATE (ADMINISTRATION BUILDING):							**$245,000**

NOTE: TABLE DOES NOT INCLUDE ABATEMENT OF ANY EXTERIOR ASBESTOS SUCH AS WINDOW CAULK OR ROOFING.

TABLE 1: SUMMARY OF IDENTIFIED ACM AND ABATEMENT COST ESTIMATES
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

Building/Description	Quantity	Unit	Unit Cost	Subtotal Cost	Consultant (20%)	Contingency (10%)	Total Cost
CROUTER BUILDING							
REMOVAL							
Thermal Systems Insulation	165	SF	$10.00	$1,650	$330	$198	$2,178
Misc. Material (VAT/Mastic)	810	SF	$5.00	$4,050	$810	$486	$5,346
REPLACEMENT							
Thermal Systems Insulation	165	SF	$10.00	$1,650	$330	$198	$2,178
Misc. (VAT/Mastic)	N/A	N/A	N/A				
GRAND TOTAL				$7,350	$1,470	$882	$9,702
ABATEMENT ESTIMATE (CROUTER BUILDING):							**$10,000**
DURANT BUILDING							
REMOVAL							
Thermal Systems Insulation	133	SF	$10.00	$1,330	$266	$160	$1,756
Thermal Systems Insulation	20	LF	$15.00	$300	$60	$36	$396
Misc. (Sheetrock)	80,000	SF	$5.00	$400,000	$80,000	$48,000	$528,000
Misc. (VAT/Mastic)	3,470	SF	$5.00	$17,350	$3,470	$2,082	$22,902

TABLE 1: SUMMARY OF IDENTIFIED ACM AND ABATEMENT COST ESTIMATES
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

Building/Description	Quantity	Unit	Unit Cost	Subtotal Cost	Consultant (20%)	Contingency (10%)	Total Cost
DURANT BUILDING (CONTINUED)							
REPLACEMENT							
Thermal Systems Insulation	133	SF	$10.00	$1,330	$266	$160	$1,756
Thermal Systems Insulation	20	LF	$15.00	$300	$60	$36	$396
Misc.		SF	N/A				
GRAND TOTAL				$420,610	$84,122	$50,474	$555,206
ABATEMENT ESTIMATE (DURANT BUILDING):							**$555,000**
GIRLS' BUILDING							
REMOVAL							
Thermal Systems Insulation	214	SF	$10.00	$2,140	$428	$257	$2,825
Thermal Systems Insulation	873	LF	$15.00	$13,095	$2,619	$1,571	$17,285
Surfacing (Cooler Wall/Ceiling Lining)	240	SF	$12.50	$3,000	$600	$360	$3,960
Misc. (Sheetrock)	3,040	SF	$5.00	$15,200	$3,040	$1,824	$20,064
Misc. (VAT/Mastic)	5,370	SF	$5.00	$26,850	$5,370	$3,222	$35,442
Misc. (Ceiling Tile)	3,280	SF	$5.00	$16,400	$3,280	$1,968	$21,648

TABLE 1: SUMMARY OF IDENTIFIED ACM AND ABATEMENT COST ESTIMATES
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

Building/Description	Quantity	Unit	Unit Cost	Subtotal Cost	Consultant (20%)	Contingency (10%)	Total Cost
GIRLS' BUILDING (CONTINUED)							
REPLACEMENT							
Thermal Systems Insulation	214	SF	$10.00	$2,140	$428	$257	$2,825
Thermal Systems Insulation	873	LF	$15.00	$13,095	$2,619	$1,571	$17,285
Surfacing		SF	N/A				
Misc.		SF	N/A				
GRAND TOTAL				$91,920	$18,384	$11,030	$121,334
ABATEMENT ESTIMATE (GIRLS' BUILDING):							**$121,000**
PRATT BUILDING							
REMOVAL							
Misc. (VAT/Mastic)	800	SF	$5.00	$4,000	$800	$480	$5,280
REPLACEMENT							
Misc. (VAT/Mastic)	N/A	N/A	N/A				
GRAND TOTAL				$4,000	$800	$480	$5,280
ABATEMENT ESTIMATE (PRATT BUILDING):							**$5,000**

TABLE 1: SUMMARY OF IDENTIFIED ACM AND ABATEMENT COST ESTIMATES
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

Building/Description	Quantity	Unit	Unit Cost	Subtotal Cost	Consultant (20%)	Contingency (10%)	Total Cost
RAINBOW HOUSE							
REMOVAL							
Thermal Systems Insulation	57	SF	$10.00	$570	$114	$71	$755
REPLACEMENT							
Thermal Systems Insulation	57	SF	$10.00	$570	$114	$71	$755
GRAND TOTAL				$1,140	$228	$142	$1,510
ABATEMENT ESTIMATE (RAINBOW HOUSE):							**$2,000**
WHIPPLE BUILDING							
REMOVAL							
Misc. (Glue Dots)	168	SF	$5.00	$840	$168	$101	$1,109
Misc. (VAT/Mastic)	19,520	SF	$5.00	$97,600	$19,520	$11,712	$128,832
REPLACEMENT							
Misc.		SF	N/A				
GRAND TOTAL				$98,440	$19,688	$11,813	$129,941
ABATEMENT ESTIMATE (WHIPPLE BUILDING):							**$130,000**

TABLE 2: ASBESTOS ABATEMENT COST ESTIMATE SUMMARY MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
BUILDING	**REMOVAL COST**	**REPLACEMENT COST**	**TOTAL COST***
Administration	$178,325	$66,818	$245,000
Crouter	$7,524	$2,178	$10,000
Durant	$553,054	$2,152	$555,000
Girls'	$101,224	$20,110	$121,000
Pratt	$5,280	$0	$5,000
Rainbow House	$755	$755	$2,000
Whipple	$129,941	$0	$130,000
TOTALS	$961,928	$91,168	**$1,068,000**

* Estimate is rounded to nearest thousand.

Crouter Building

The survey identified the following ACM in the Crouter Building: various types of vinyl floor tile and mastic; cementitious mudded fitting insulation on fiberglass insulated piping; a very small quantity of asbestos-containing "aircell" type pipe insulation; exterior door frame caulk; and exterior window frame caulk.

Durant Building

The survey identified the following ACM in the Durant Building: various types of vinyl floor tile and mastic; cloth wrap on pipe fittings, piping and a heat exchanger; heat exchanger insulation; and sheetrock joint compound.

Girls' Building

The survey identified the following ACM in the Girls' Building: various types of vinyl floor tile and mastic; pipe and pipe fitting insulation, heat exchanger insulation and hot water tank insulation; suspended ceiling tile present throughout much of the basement; glued-on ceiling tile present in Rooms 102 and 105 on the First Floor; a tar coating on cork ceiling lining in the basement cooler room between rooms G-9 and G-10; wall mortar material in the basement cooler room between rooms G-9 and G-10; sheetrock joint compound in portions of the second floor; and exterior window caulk.

Pratt Building

The survey identified the following ACM in the Pratt Building: white 12" floor tile with brown streaks, present only in the laundry room and bowling alley. Mastic from the tile was found not to contain asbestos.

Rainbow House

The survey identified the following ACM in Rainbow House: cementitious mudded fitting insulation on fiberglass insulated piping in the basement; and exterior window frame caulk.

Whipple Building

The survey identified the following ACM in the Whipple Building: vinyl floor tile and mastic; glue material ("glue dots") used to affix bulletin boards to the walls in classroom areas; exterior caulking material on metal windows; and glazing material on metal windows.

4.0 OPERATIONS AND MAINTENANCE (O&M) PLAN ELEMENTS

4.1 Asbestos Program Manager

The Asbestos Program Manager is a designated person responsible for implementing the O&M program and overseeing asbestos related activities in the facility. The position of Asbestos Program Manager is typically held by the building engineer or facilities manager. The Asbestos Program Manager should also fulfill the duties of the "competent person" required by the OSHA Construction Industry Standard to oversee work involving potential disturbance of asbestos and ensure that employees are properly protected.

For facilities such as Mystic Education Center where employees perform Class IV operations, OSHA requires the Competent Person to have training consistent with EPA requirements for maintenance and custodial staff in school buildings. This training is 16 hours in duration and is commonly referred to as "O&M training". It is desirable that the Asbestos Program Manager have additional training, such as Connecticut asbestos inspector/management planner training.

4.2 Hazard Communication

4.2.1 Signs and Labeling of Asbestos-Containing Materials (ACM)

A labeling program should be implemented to identify ACM in the facility's "routine maintenance areas", such as boiler rooms and mechanical rooms. Table 3 contains a list of areas requiring signs. The signs should conform to the requirements of the OSHA Construction Standard Section (k) (6) including identification of the type of ACM present in the area and its specific location in the area.

It is recommended that the signs include the following text: DANGER-CONTAINS ASBESTOS FIBERS. CONTACT THE ASBESTOS PROGRAM MANAGER (GIVE NAME AND PHONE NUMBER) FOR APPROVAL PRIOR TO ANY WORK INVOLVING CONTACT WITH THE ASBESTOS MATERIALS.

Signs or labels are not required for some types of ACM if employee training and notification is accomplished in accordance with OSHA requirements. These types include: asbestos-containing floor tile, roofing and thermal systems insulation concealed above drop ceilings. All persons (including outside contractors) who may disturb or contact these materials must be advised in advance that they contain asbestos.

4.2.2 Contaminated Building Areas

OSHA requires that signs be posted restricting access to building areas that are contaminated with ACM debris where it has been demonstrated, or can reasonably be expected, that airborne asbestos fiber concentrations exceed the OSHA Permissible Exposure Limit (PEL). Such locations are known as "Regulated Areas". DELTA's March 2001 survey identified some areas of localized damage to ACM at the facility, though it appears unlikely that these areas constitute "Regulated Areas". Recommendations concerning asbestos abatement at the facility are provided in Table 3. Periodic surveillance and reinspection procedures outlined in Section 4.6 should be implemented to monitor the condition of all ACM and promptly identify any areas where ACM becomes damaged, resulting in asbestos fiber release.

Fiber release episodes should be addressed in accordance with the procedures outlined in Section 5.4. **Fiber release episodes cannot be cleaned up by facility personnel.** Fiber release episodes must be addressed by a licensed asbestos abatement contractor. Fiber release episodes should be cleaned up as soon as possible. In the interim period between discovery and cleanup, the location where the release occurred is a "Regulated Area". Access to the area should be restricted and signs posted at all entrances. Regulated areas are required to be posted with signs containing the following text:

DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE CLOTHING
ARE REQUIRED IN THIS AREA

OSHA requires that signs also be posted restricting access to building areas that are contaminated with asbestos debris where fiber concentrations do not exceed the PEL. These signs should read as follows:

WARNING
AREA CONTAMINATED WITH ASBESTOS DEBRIS
AVOID CREATING DUST
AUTHORIZED PERSONNEL ONLY

Any such areas should be cleaned up as soon as possible by a State licensed asbestos abatement contractor. In the interim, access to the contaminated building areas should be restricted by limiting the availability of keys to these areas to personnel with appropriate asbestos-related training, who will enter only under the supervision and/or direction of the Asbestos Program Manager.

4.2.3 Awareness Program for Outside Contractors

Contractors hired to do work at Mystic Education Center shall be informed by the on-site Asbestos Program Manager of the location of ACM in the work area to which they are assigned. Contractors shall, under no circumstances, damage or disturb ACM unless they are a licensed Asbestos Abatement Contractor and have been specifically employed to perform asbestos removal.

The Asbestos Program Manager shall provide contractors with either a copy of the completed Asbestos Work Authorization Form (reference Appendix D) or a copy of specific sections of the asbestos survey report pertaining to the areas where the work will occur.

The Asbestos Program Manager shall caution contractors that they shall not proceed with any change in work without prior approval. It will be the responsibility of the contractor to provide their own asbestos awareness program which shall include the information contained in this section.

4.3 Training Requirements

4.3.1 Custodial and Maintenance Training

All maintenance and custodial staff who perform duties involving potential contact with ACM but do not involve the removal or disturbance of ACM should receive two hours asbestos awareness training on an annual basis. Training will include:

1. Asbestos characteristics and typical uses of ACM.

2. Health effects of asbestos exposure and the combined effects of smoking and asbestos exposure.

3. Purpose of the Asbestos O&M Program.

4. Recognition of damaged ACM, and the response that should be made if damaged ACM or suspect ACM is found.

5. Summary of the types and locations of ACM in the building.

4.3.2 Respirator Training

Any employees who wear respiratory protection shall receive training on respiratory protection and approved asbestos-related work practices and procedures. The training should include: an explanation of the importance of respirator use; proper procedures for inspection, use, maintenance and storage of the respirator; limitations of various types of respirators; and fit check procedures.

4.3.3 Building Occupant Awareness

Employees should be made aware of the existence of the Asbestos O&M Program, and be provided access to this document upon request. Employees should be made aware that ACM may be present in their workplace, and be cautioned that ACM is not to be damaged or disturbed except under controlled conditions by trained personnel.

Prior to the start of an asbestos abatement project, additional information should be provided to building occupants that will explain the work that is to be performed, and the measures that are being employed to protect them. This information will be made available either at group meetings, or by letter, the use of media resources, or a combination of the above.

4.4 Medical Surveillance

The OSHA Construction Standard requires that annual medical surveillance be provided to: employees who perform OSHA Class I, II or III work for a combined total of 30 or more days per year; employees exposed to asbestos at levels above the PEL; and employees who are issued a negative pressure respirator. As discussed previously, employees at Mystic Education Center do not perform Class I, II or III work.

Medical surveillance is required for employees issued a negative pressure respirator (standard cartridge filter respirator) in order to determine whether they are fit to wear it. Employees issued a powered air purifying respirator (PAPR) are not required to have medical surveillance unless their work meets one of the other conditions.

OSHA requires an exposure assessment be developed for any asbestos related tasks performed by employees, including Class IV work. It appears that respiratory protection may not be necessary for employees performing Class IV work (such as cleaning of vinyl floor tile) at the facility. If the exposure assessment confirms this, medical surveillance will not be required.

Medical surveillance involves: examination by a licensed physician including evaluation of pulmonary and gastrointestinal systems, including a chest roentgenogram to be administered at the discretion of the physician; and a standardized medical and work history questionnaire developed by OSHA.

4.5 Respiratory Protection Program

As discussed in Section 2.2, OSHA has developed a Respiratory Protection Standard (29 CFR 1910.134) applicable to all workplaces where respirators are issued or where they are necessary to protect employees. For any employees who perform activities requiring respiratory protection, the Standard requires development and implementation of a written respiratory protection program including the following elements: procedures for respirator selection; medical evaluations of employees required to use respirators; fit testing procedures for tight-fitting respirators; procedures for respirator use; procedures for use of supplied air respirators where required; training of employees; and procedures for evaluating the effectiveness of the program.

Based on the nature of operations at Mystic Education Center, it does not appear that respiratory protection is necessary for employees performing Class IV work, though OSHA requires that an exposure assessment be developed to confirm this finding.

4.6 Reinspection and Periodic Surveillance

It is recommended that all identified asbestos-containing materials in the building be reinspected at least once annually by the on-site Asbestos Program Manager. Any change in material condition shall be noted during this inspection and, if necessary, the relative hazard posed to building occupants by this material shall be assessed. If necessary, material repairs and/or minor abatement shall be performed at the first available opportunity to reduce or eliminate the hazard to building occupants.

A complete record of building inspections shall be maintained. A recordkeeping form for periodic surveillance is included in Appendix B. Completed forms should be kept with this O&M plan, in Appendix C.

4.7 Recordkeeping

All records mentioned in this Asbestos O&M Program shall be retained as required by the regulations and as necessary to maintain an effective program. These records shall include:

- The written O&M plan itself, including all revisions, changes and modifications.
- All asbestos project (abatement, repair, encapsulation or enclosure) records including, as appropriate, survey records, project design or abatement specifications, air sampling data, daily project monitor logs, sign-in logs, waste disposal manifests, and invoices. The building area affected and material removed shall be clearly identified on the building drawings. Include information regarding abatement projects in Appendix J.
- Attendance records at all awareness and training programs (include in Appendix G).
- Medical surveillance records (if required) shall be maintained for 30 years past the last date of employment for an individual employee. Include any personal exposure monitoring (air sampling) data.

5.0 OPERATIONS AND MAINTENANCE (O&M) STANDARD WORK PRACTICES

Standard work practices and procedures provide specific guidelines for certain asbestos-related work activities. Adherence to these practices will minimize the production of airborne asbestos fibers and will protect the worker and building occupants.

5.1 Work Order Permit System

No renovation or maintenance activity involving alteration of a building material should occur without prior review by the Asbestos Program Manager for the possibility of contact with or disturbance of ACM.

All personnel (including outside contractors) shall follow the guidelines of the Work Order Review System detailed in this document if they:

- Conduct maintenance, renovation or repair activities.
- Conduct work in asbestos contaminated work environments where deteriorated or damaged ACM may be present
- Conduct any other work or operation that potentially impacts ACM.

A copy of the Asbestos Work Authorization Form shall be maintained at the work site throughout the course of the project. A copy of the form to be used is included in Appendix D. Completed forms should be kept with this document, in Appendix E.

5.1.1 Purpose

The purpose of the work order review system is to allow the Asbestos Program Manager an opportunity to review all proposed renovation, maintenance or repair work that is to be completed internally by staff and/or outside contractors to insure that either:

- ACM will not be disturbed by the work
- Any damaged ACM present in the work area is repaired and the area cleaned before the work begins
- Suitable precautions are taken if the work has the potential to unintentionally disturb ACM (e.g. due to the physical configuration of the area and the location of the ACM in relation to the proposed work) or,
- The ACM that will be disturbed by the work is removed by a licensed asbestos abatement contractor under the supervision of a licensed Project Monitor hired for this purpose.

All ACM in the area of the work will be identified on the review form. When the work will be conducted in the vicinity of thermal system insulation (TSI), all ACM TSI in the immediate vicinity of the work area will be clearly identified with the OSHA "Danger" warning label, and non-ACM TSI with an "Asbestos Free" label as appropriate.

5.2 Exposure Monitoring

OSHA regulations require that "initial exposure assessments" be performed for any asbestos work by employees. As stated previously, the policy of Mystic Education Center is that facility personnel shall not handle asbestos. All asbestos abatement (OSHA Class I, II or III activities) must be conducted by licensed outside contractors. However, OSHA also requires exposure assessments for Class IV work (maintenance and custodial activities during which employees contact but do not disturb asbestos). Class IV activities performed at Mystic Education Center include maintenance and cleaning of vinyl floor tile.

In some cases, OSHA may allow the use of "objective data" in lieu of air monitoring as a means of conducting an exposure assessment. The "objective data" are required to demonstrate that "the product or material containing asbestos minerals or the activity involving such product or material cannot release airborne fibers in concentrations exceeding the TWA and excursion limit (the permissible exposure limits) under those work conditions having the greatest potential for releasing asbestos".

For work at Mystic Education Center involving buffing and cleaning of asbestos-containing vinyl floor tile, it may be feasible to use objective data to produce a negative exposure assessment. Specifically, adherence to the work procedures outlined in Section 5.3 could be used as a basis for a negative exposure assessment indicating that the tile would not release asbestos fibers at levels exceeding the TWA under these conditions.

5.2.1 Air Sampling During Asbestos Projects

For asbestos abatement projects in occupied buildings, the OSHA Construction Standard requires the employers of the occupants to "take steps on a daily basis to ascertain the integrity of the enclosure and/or the effectiveness of the control method relied on by the primary asbestos contractor". For Mystic Education Center, this will be accomplished by an on-site DPH licensed Project Monitor coordinated by the DPW Asbestos Program. The Project Monitor shall collect air samples both inside and outside of the work area during the project. The Project Monitor will perform a final visual inspection when the work is complete and will secure final clearance air samples using aggressive air sampling techniques as outlined in DPH regulations.

Asbestos abatement contractors working at Mystic Education Center shall be responsible for securing air samples for their own personnel to meet the OSHA requirements. All air sampling results for abatement projects should be maintained on file at the facility.

5.3 Maintaining and Cleaning Vinyl Asbestos Tile

The survey found vinyl asbestos tile (VAT) flooring throughout much of the facility. Though this material is typically non-friable, the frictional forces exerted on it during routine floor maintenance operations can cause asbestos fibers to be released. The OSHA Construction Standard prohibits sanding of VAT and requires that stripping of finishes be conducted using wet methods and low abrasion pads at speeds lower than 300 RPM.

OSHA requires that burnishing or dry buffing be performed only on flooring which has sufficient finish so that the pad does not contact the tile. Personnel responsible for cleaning and maintaining vinyl asbestos tile should be given a minimum of two hours asbestos awareness training. The following additional measures are recommended for VAT maintenance:

- Perform stripping of tile finish coat as infrequently as possible (once per year if feasible). If possible, perform stripping when the building is unoccupied. As noted above, stripping should only be conducted only while the floor is wet using the least abrasive pad possible at speeds lower than 300 RPM.

- Prior to applying a finish coat to the tile, apply two to three coats of sealer. Continue to finish the floor with a high percent solid finish.

- If spray buffing or dry burnishing is used, always ensure that the floor has sufficient finish so that the pad does not contact the tile. Always operate the floor machine at the lowest rate of speed possible using the least abrasive pad possible.

- Use a wet mop for routine cleaning of finished floors whenever possible.

- Ensure that floor mats are used at all entrances during the winter months to reduce scuffing of the tile by sand and salt being tracked into the building.

5.4 Procedures for Asbestos Fiber Release Episodes

A fiber release episode is the falling or dislodging of ACM. Any such incident must be cleaned up by a Connecticut Department of Public Health (DPH) licensed asbestos abatement contractor.

The procedures to follow in the event of a fiber release episode are outlined below.

5.4.1 Fiber Release Episode General Procedures

- Restrict access to the area and post signs to prevent unauthorized entry.

- Notify the on-site Asbestos Program Manager immediately. He or she should contact the Department of Public Works Statewide Services Asbestos Program. Contact information is provided below:

  Mr. John Wytas - Department of Public Works*
  Office Phone: (860) 713-5702
  Cell Phone: (860) 539-2814
  *** This information is valid as of November 2001. Update as necessary!**

- Additional technical assistance can be provided by the Department of Public Health Asbestos Program as needed. The phone number is (860) 509-7367.

- Shut off air handling systems to prevent the distribution of fibers to other areas of the building.

- Building evacuation is appropriate if it is believed that asbestos fibers have been distributed to occupied areas.

- **The response action cannot be conducted by in-house personnel.** The response action for any major fiber release episode must be designed by a DPH licensed Project Designer and conducted by a licensed abatement contractor. A licensed Project Monitor is required to conduct air sampling after completion of the response action to verify that the area is safe for reoccupancy.

6.0 SUMMARY OF OPERATIONS AND MAINTENANCE PROGRAM

6.1 Summary of Survey Findings

The survey identified the following types of asbestos-containing materials (ACM) in the several of the buildings at Mystic Education Center: vinyl floor tile and mastic; pipe and pipe fitting insulation; exterior window caulk and glazing.

The following materials were found in isolated areas: soft ceiling surfacing material in the Administration Building Dining Room; one type of 12" square ceiling tile located in the Administration Building and Girls' Building; heat exchanger insulation in the Durant Building; sheetrock joint compound in the Durant Building; suspended ceiling tile in the Girls' Building; a tar coating on cork ceiling lining in the basement cooler room in the Girls' Building; wall mortar material in the basement cooler room in the Girls' Building; and glue material used to affix bulletin boards to the walls in classroom areas in the Whipple Building.

Table 3 provides a summary of actions required to implement the O&M program. A preliminary list of abatement priorities is provided, along with cost estimates.

TABLE 3: RECOMMENDED RESPONSE ACTIONS FOR MYSTIC EDUCATION CENTER (IN ORDER OF PRIORITY)

ITEM	ESTIMATED COST
1. Restrict access and post "Asbestos Debris" signs at entrance to: 1A. Girls' Building Boiler Room (Boiler Room for Whipple) (Post signs just inside at all entrance points to room. Signs are recommended as a precautionary measure, due to the presence of a small quantity of loose asbestos debris in the room. Signs are discussed in Section 4.2.2 of the O&M plan.)	---
2. Post "Asbestos Hazard" signs in routine maintenance areas, including: 2A. Girls' Building East Side of Basement Near Rooms G8/G13 2B. Durant Building Mech. Rm. 101 and SE Fan Room 2C. Rainbow House Boiler Room 2D. Admin. Bldg. Pipe Chase Rooms A129, A137, A144, A245 and A329 2E. ETC Pipe Crawlspace (Post signs just inside at all entrance points to room. Signs are discussed in Section 4.2.1 of the O&M plan)	---
3. Develop a plan for asbestos abatement at the facility, in order of priority. Prioritization is dependent on intended future uses of the buildings, as well as any pending maintenance projects and renovation plans. The following is a preliminary priority ranking, based on information currently available to DELTA:	
3A. **Girls' Building Boiler Room -** Clean loose debris. Remove intact asbestos insulation when feasible and reinsulate.	..... $9,000
3B. **Whipple Building -** Remove loose floor tiles at Stairwell No. 1, ground floor landing.	..... $2,000
3C. **Girls' Building Second Floor -** Remove small quantity of damaged sheetrock with asbestos joint compound. Priority for removal of remaining sheetrock is use-dependent.	..... $2,000
3D. **Girls' Building Basement -** Remove asbestos pipe insulation and ceiling tile when feasible. Reinsulate piping. Remove vinyl asbestos floor tile in conjunction with other materials if cost effective.	..... $80,000
3E. **Durant Building Sheetrock -** Priority for removal of sheetrock with asbestos joint compound is dependent on the intended future use of the building.	..... $520,000* *All sheetrock in Building.

TABLE 3: RECOMMENDED RESPONSE ACTIONS FOR MYSTIC EDUCATION CENTER (IN ORDER OF PRIORITY)	
3F. **Rainbow House Basement** - Remove small number of intact asbestos-containing mudded fittings when feasible to facilitate future maintenance work.	..... $2,000
3G. **Durant Building Mechanical Rooms** - Remove intact asbestos insulation when feasible to facilitate future maintenance work.	..... $5,000
3H. **Administration Building Pipe Chases** - Remove asbestos insulation when feasible to facilitate future maintenance work.	..... $8,000
3I. **Crouter Building** - Remove friable asbestos materials as necessary (low priority - use dependent).	..... $5,000
4. Implement Periodic Surveillance and other O&M Program Elements (Summarized in Section 6.2 of the O&M Plan)	---

6.2 O&M Program Implementation

The O&M program is designed to further reduce the risk of accidental disturbance of asbestos. The following is a summary of actions necessary to begin implementation of the O&M program.

- Designate an Asbestos Program Manager to implement the O&M program and provide oversight of all asbestos related activities in the facility. The position of Asbestos Program Manager is typically held by the building engineer or facilities manager. The Asbestos Program Manager should also fulfill the duties of the "competent person" required by the OSHA Construction Industry Standard to oversee work involving potential disturbance of asbestos and ensure that employees are properly protected.

  At a minimum, the Asbestos Program Manager should have training consistent with EPA requirements for maintenance and custodial staff in school buildings. This training is 16 hours in duration and is commonly referred to as "O&M training". It is desirable that the Asbestos Program Manager have additional training, such as asbestos inspector/management planner training. Implementation of a work order review system is recommended to allow the Program Manager the opportunity to review all proposed renovation, maintenance or repair work that is to be completed internally by staff and/or outside contractors.

- OSHA hazard communications regulations require that the following persons be informed in writing of the presence, location and quantity of ACM in the building: employees who work in areas containing ACM; contractors bidding for work in areas containing ACM; other employers on multi-employer worksites with employees working in or adjacent to areas containing ACM; and tenants who occupy areas containing ACM. It appears that this requirement could be satisfied by informing the appropriate personnel of the availability of this O&M plan.

- Ensure that two-hour asbestos awareness training is provided for building maintenance personnel including any employees responsible for cleaning/maintaining the exposed vinyl asbestos tile. The training should include annual refreshers. Utilize the standard work practice procedures for cleaning and maintaining vinyl asbestos tile as outlined in Section 5.3.

- OSHA regulations require that "initial exposure assessments" be performed for any asbestos work by employees. The policy of Mystic Education Center is that facility personnel shall not handle asbestos. All asbestos abatement (OSHA Class I, II or III activities) must be conducted by licensed outside contractors. However, OSHA also requires exposure assessments for Class IV work (maintenance and custodial activities during which employees contact but do not disturb asbestos). Class IV activities performed at Mystic Education Center include maintenance and cleaning of vinyl floor tile.

  In some cases, OSHA may allow the use of "objective data" in lieu of air monitoring as a means of conducting an exposure assessment. The "objective data" are required to demonstrate that "the product or material containing asbestos minerals or the activity involving such product or material cannot release airborne fibers in concentrations exceeding the TWA and excursion limit (the permissible exposure limits) under those work conditions having the greatest potential for releasing asbestos".

  For work at Mystic Education Center involving buffing and cleaning of asbestos-containing vinyl floor tile, it may be feasible to use objective data to produce a negative exposure assessment. Specifically, adherence to the work procedures outlined in Section 5.3 could be used as a basis for a negative exposure assessment indicating that the tile would not release asbestos fibers at levels exceeding the TWA under these conditions.

- It is recommended that all identified asbestos-containing materials in the building be reinspected at least once annually. Any change in material condition shall be noted during this inspection and, if necessary, the relative hazard posed to building occupants by this material shall be assessed.

- Place signs in routine maintenance areas where asbestos is present as required by the OSHA Construction Standard. The signs should identify the type of ACM present and its specific location in the area. The signs shall include the following text: DANGER. CONTAINS ASBESTOS FIBERS. AVOID CREATING DUST. CANCER AND LUNG DISEASE HAZARD. It is recommended that the signs also include a statement as follows: DO NOT DISTURB WITHOUT PROPER TRAINING AND EQUIPMENT. CONTACT THE ASBESTOS PROGRAM MANAGER (GIVE NAME AND PHONE NUMBER) FOR APPROVAL PRIOR TO ANY WORK INVOLVING TOUCHING OR DISTURBING THE ASBESTOS MATERIALS. Table 3 includes a list of areas requiring signs.

APPENDIX A

Glossary

GLOSSARY OF TERMS PERTAINING TO ASBESTOS MANAGEMENT

Abatement: Procedures to control fiber release from asbestos-containing materials including removal, encapsulation and enclosure.

Accessible: when referring to ACM, the material is subject to disturbance by building occupants or custodial or maintenance personnel in the course of their normal activities.

ACM: Asbestos-containing material. Defined as a material containing greater than one percent asbestos by volume per EPA Test Method 600 M/4 82-020.

Action Level: An airborne concentration of asbestos of 0.1 fiber per cubic centimeter of air (f/cc) calculated as an eight (8)-hour time-weighted average.

Acoustical Insulation: The general application or use of asbestos for the control of sound due to its lack of reverberant surfaces.

Acoustical Tile: A finishing material in a building usually found in the ceiling or walls for the purpose of noise control.

Adequately Wet: Sufficiently mix or penetrate with liquid to prevent the release of particulates. If visible emissions are observed coming from asbestos-containing material, then that material has not been adequately wet.

Aggressive Sampling: Air sampling which takes place after abatement and final clean-up while the air is being physically agitated to produce a "worst case" situation.

AIHA: American Industrial Hygiene Association

AIHA Accredited Laboratory: A certification given by the AIHA to an analytical laboratory that has successfully participated in the "Proficiency Analytical Testing" program for quality control as established by the National Institute for Occupational Safety and Health.

Airborne Asbestos Analysis: Determination of the amount of asbestos fibers suspended in a given amount of air.

Aircell: Pipe insulation with a fibrous, air-filled honeycomb center. This type of insulation typically contains asbestos.

Air Diffuser: A device designed to disperse an air stream throughout a given area.

Air Erosion: The passage of air over friable ACM which may result in the release of asbestos fibers.

Air Lock: A system of enclosures consisting of two polyethylene curtained doorways at least three feet apart that does not permit air movement between clean and contaminated areas.

Air Monitoring: The process of measuring the airborne fiber concentration of a specific quantity of air over a given amount of time.

Air Plenum: Any space used to convey air in a building or structure. The space above a suspended ceiling is often used as an air plenum.

Alternative Work Practice (AWP) - State of Connecticut Department of Public Health approved deviation from Asbestos Standards (Sections 19a-332a-1 to 19a-332a-16 inclusive). Alternative Work Practice methods may be used if pre-approved by DPH.

Ambient Air: The surrounding air or atmosphere in a given area under normal conditions.

Amended Water: Water to which a chemical wetting agent (surfactant) has been added to improve penetration into asbestos-containing materials that are being removed.

Amosite: An Asbestiform mineral of the amphibole group containing approximately 50% silicon and 40% Iron (II) Oxide, and is made up of straight, brittle fibers, light gray to pale brown in color.

Amphibole: One of the two major groups of minerals from which the Asbestiform minerals are derived, distinguished by their chain-like crystal structure and chemical composition.

ANSI: American National Standards Institute

Approved Landfill: A site for the disposal of asbestos-containing and other hazardous wastes that has been given EPA approval.

Asbestiform Minerals: Minerals which, due to their crystal structures and chemical composition, tend to be separated into fibers and can be classified as a form of asbestos.

Asbestos: Any of the following asbestiform minerals alone or in combination: chrysotile, amosite, crocidolite, tremolite, anthophyllite, actinolite, and any of these minerals that have been chemically treated and/or altered. Asbestos minerals are naturally occurring fibrous silicates.

Asbestos-containing Waste Materials: Regulated asbestos-containing material waste and materials contaminated with asbestos including disposable equipment and clothing, filters from control devices and bags or other similar packaging contaminated with commercial asbestos.

Asbestos Control Area - An area where asbestos abatement operations are performed which is isolated by physical boundaries which assist in the prevention of the uncontrolled release of asbestos dust, fibers, or debris. Two examples of an Asbestos Control Area are a "full containment" and a "glove-bag."

Asbestos Debris: Pieces of ACBM that can be identified by color, texture, or composition, or means dust, if the dust is determined by an accredited inspector to be ACM.

Asbestos Fibers: Fibers with their length being greater than five microns (length to width ratio of 3:1), generated from an asbestos-containing material.

Asbestosis: A non-malignant, progressive, irreversible lung disease caused by the inhalation of asbestos dust and characterized by diffuse fibrosis.

Asbestos Project: Asbestos Abatement disturbing 3 linear or 3 square feet of ACM or more.

Authorized Asbestos Disposal Facility - A location approved by the Connecticut Department of Environmental Protection for handling and disposing of asbestos waste or by an equivalent regulatory agency if the material is disposed of outside the State of Connecticut.

Bridging Encapsulant: The application of a sealant over the surface of asbestos-containing material to prevent the release of asbestos fibers.

Category I Nonfriable Asbestos-Containing Material (ACM): Asbestos-containing packing, gaskets, resilient floor covering, and asphalt roofing products containing more than 1 percent asbestos as determined using the method specified in appendix A, subpart F, 40 CFR part 763, section 1, Polarized Light Microscopy.

Category II Nonfriable ACM: Any material, excluding Category I nonfriable ACM, containing more than 1 percent asbestos as determined by using the methods specified in appendix A, subpart F, 40 CFR part 763, section 1, Polarized Light Microscopy that when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Cementitious: Asbestos-containing materials that are densely packed, granular and are friable.

CFM: Cubic feet per minute.

Chrysotile (White Asbestos): The only asbestiform mineral of the serpentine group which contains approximately 40% each of silica and magnesium oxide. It is the most common form of asbestos used in buildings.

Class I Asbestos Work - Activities involving the removal of Thermal Systems Insulation (TSI) and surfacing ACM and PACM.

Class II Asbestos Work - Activities involving the removal of ACM which is not thermal system insulation or surfacing material. This includes, but is not limited to the removal of asbestos-containing wallboard, floor tile and sheeting, roofing and siding shingles, and construction mastic.

Class III Asbestos Work - Repair and maintenance operations, where ACM, including thermal system and surfacing material, is likely to be disturbed.

Class IV Asbestos Work - Maintenance and custodial activities during which employees contact ACM and PACM and activities to clean up waste and debris containing ACM and PACM.

Clean Area: The first stage of the decontamination enclosure system in which workers prepare to enter the work area.

Competent Person - In addition to the definition in 29 CFR 1926.32(f), one who is capable of identifying existing asbestos hazards in the work place and selecting the appropriate control strategy for asbestos exposure, who has the authority to take prompt corrective measures to eliminate them, as specified in 29 CFR 1926.32(f): in addition for Class I and Class II work who is specially trained in a training course which meet the criteria of 40 CFR 763 (Appendix C to Subpart E - Asbestos Model Accreditation Plan).

Contaminated Items: Any objects that have been exposed to airborne asbestos fibers without being sealed off or isolated.

Contract Specifications: A set of guideline that a contractor must follow when conducting an asbestos abatement job.

Critical Barrier - A minimum of two layers of six (6) mil polyethylene sheeting taped securely over windows, doorways, diffusers, grilles and any other openings between the asbestos abatement work area and uncontaminated areas outside of the work area, including the outside of the building.

Curtained Doorway: A device to allow ingress or egress from one room to another while permitting minimal air movement between the rooms, typically constructed by placing two overlapping sheets of plastic over an existing or temporarily framed doorway, securing each along the top of the doorway, securing the vertical edge of one sheet along one vertical side of the doorway and securing the vertical edge of the other sheet along the opposite side of the doorway.

Damaged Friable Miscellaneous ACM: Friable miscellaneous ACM which has deteriorated or sustained physical injury such that the internal structure (cohesion) of the material is inadequate or, if applicable, which has delaminated such that its bond to the substrate (adhesion) is inadequate or which for any other reason lacks fiber cohesion or adhesion qualities. Such damage or deterioration may be illustrated by the separation of ACM into layers; separation of ACM from the substrate; flaking, blistering, or crumbling of the ACM surface; water damage; significant or repeated water stains, scrapes, gouges, mars or other signs of physical injury on the ACM. Asbestos debris originating from the ACBM in question may also indicated damage.

Damaged Friable Surfacing ACM: Friable surfacing ACM which has deteriorated or sustained physical injury such that the internal structure (cohesion) of the material is inadequate or which has delaminated such that its bond to the substrate (adhesion) is inadequate, or which, for any other reason, lacks fiber cohesion or adhesion qualities. Such damage or deterioration may be illustrated by the separation of ACM into layers; separation of ACM from the substrate; flaking, blistering,, or crumbling of the ACM surface; water damage; significant or repeat water stains, scrapes, gouges, mars or other signs of physical injury on the ACM. Asbestos debris originating from the ACBM in question may also indicate damage.

Damage or Significantly Damaged Thermal System Insulation ACM: Thermal system insulation ACM on pipes, boilers, tanks, ducts, and other thermal system insulation equipment where the insulation has lost its structural integrity, or its covering, in whole or in part, is crushed, water stained, gouged, punctured, missing, or not intact such that it is not able to contain fibers. Damage may be further illustrated by occasional punctures, gouges or other signs of physical injury to ACM; occasional water damage on the protective coverings/jackets; or exposed ACM ends or joints. Asbestos debris originating from the ACBM in question may also indicating damage.

Decontamination Unit: An enclosed area used during asbestos abatement. The unit consists of a series of connected rooms with polyethylene curtained doorways for the purpose of preventing contamination of areas adjacent to the work area. The unit consists of an equipment room, shower area, and clean room, which is used for the decontamination of workers, materials, and equipment contaminated with asbestos.

Delaminate: To separate into layers. As used here, to separate from the substrate.

Demolition: The wrecking or taking out of any load-supporting structural member and any related razing, removing, or stripping of asbestos products.

DEP - The Connecticut Department of Environmental Protection, 79 Elm Street, Hartford, CT 06106.

DPH - The Connecticut Department of Public Health, 410 Capitol Avenue, Hartford, CT 06134.

Differential Pressure - A difference in the static air pressure between the Work Area and occupied areas, and is developed by the use of HEPA filtered exhaust fans. This differential is generally in the range of 0.02 to 0.04 inches of water column.

Duct Tape: Heavy gauge tape capable of sealing joints or adjacent sheets of polyethylene.

Electron Microscopy: A method of asbestos sample analysis which utilizes an electron beam to differentiate between fibers.

Employee Notification: Informing employees or building occupants if asbestos is present in the building, also informing them of the hazards associated with asbestos exposure, what is being done to eliminate the problem, etc.

Encapsulant (sealant): A substance applied to asbestos-containing material which controls the release of airborne asbestos-fibers.

Encapsulation: The treatment of ACBM with a material that surrounds or embeds asbestos fibers in an adhesive matrix to prevent the release of fibers, as the encapsulant creates a membrane over the surface (bridging encapsulant) or penetrates the material and binds its components together (penetrating encapsulant).

Enclosure: An airtight, impermeable, permanent barrier around ACBM to prevent the release of asbestos fibers into the air.

Engineering Controls - Controls to include, but not be limited to, pressure differential equipment, decontamination enclosures, critical barriers and related procedures.

Equipment Decontamination Enclosure System - The portion of a Decontamination Enclosure System designed for controlled transfer of materials and equipment into or out of the Work Area, typically consisting of a Washroom and a Holding Area.

EPA: Environmental Protection Agency

EPA Regulations: Regulatory standards which cover emissions into the outside environment from a workplace and disposal of hazardous wastes from job sites.

Equipment Room (Change Room): A contaminated room located within the decontamination area that is supplied with impermeable bags or containers for the disposal of contaminated protective clothing and equipment.

f/CC: Fibers per cubic centimeter of air.

Fiber: A particulate form of asbestos, 5 micrometers or longer, with a length-to-diameter ratio of at least 3 to 1.

Fiber Release Episode: Any uncontrolled or unintentional disturbance of ACM resulting in visible emission.

Fibrous: Composed almost entirely of fibers.

Fireproofing: Spray-on or trowel-applied fire resistant materials.

Friable: A material, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure, and includes previously nonfriable material after such previously nonfriable material becomes damaged to the extent that when dry it may be crumbled, pulverized, or reduced to powder by hand pressure.

Friable Asbestos: Any material containing more that 1 percent asbestos that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.

Glove-Bag Technique - A method with limited applications for removing small amounts of friable asbestos-containing material from HVAC ducts, short piping runs, valves, joints, elbows, and other non-planar surfaces in a non-contaminated work area. Information on glove-bag installation, equipment and supplies, and work practices is contained in 29 CFR 1926.1101. The glove-bag assembly is a manufactured or fabricated device consisting of a glove-bag (typically constructed of six (6) mil polyethylene or polyvinyl chloride plastic), two inward projecting long sleeves, an internal tool pouch, and an attached, labeled receptacle for asbestos waste. The glove-bag is constructed and installed in such a manner that it surrounds the object or material to be removed and contains all asbestos fibers released during the process.

HEPA: High Efficiency Particulate Air (Air Filter). A filter capable of trapping and retaining at least 99.97 percent of all monodispersed particles of 0.3 micrometers in diameter or larger.

HEPA Filter Equipment - High-efficiency particulate air (HEPA) filtered vacuum and/or exhaust ventilation equipment with a filter system capable of trapping and retaining asbestos fibers. Filters shall be of 99.97 percent efficiency for retaining fibers of 0.3 microns in diameter or larger.

HEPA Filtered Vacuum: A high efficiency particulate air (HEPA) filtered vacuum capable of trapping and retaining 99.97% of all particulates larger than 0.3 microns.

Homogenous: Evenly mixed and similar in appearance and texture throughout.

Homogeneous Area: An area of surfacing material, thermal system insulation material, or miscellaneous material that is uniform in color and texture.

HVAC System: Heating, Ventilation, and Air Conditioning system.

Local Exhaust Ventilation: The mechanical removal of air contaminants from a point of operation.

Lock-down - The procedure of spraying polyethylene sheeting and building materials with an encapsulant type sealant to seal in non-visible asbestos-containing residue.

Major Fiber Release Episode - Any uncontrolled or unintentional disturbance of ACBM, resulting in a visible emission, which involves the falling or dislodging of more than 3 square or 3 linear feet of friable ACBM.

Minor Fiber Release Episode - Any uncontrolled or unintentional disturbance of ACBM, resulting in a visible emission, which involves the falling or dislodging of 3 square or linear feet or less of friable ACBM.

Medical Examinations: An evaluation of a person's health status conducted by a medical doctor.

Micron: One millionth of a meter.

Mil: Prefix meaning one-thousandth.

Negative Initial Exposure Assessment - A demonstration by the employer which complies with the criteria in 29 CFR 1926.1101(f)(2)(iii) that employee exposure during an operation is expected to be consistently below the PEL.

Negative Pressure: An atmosphere created in a work area enclosure such that airborne fibers will tend to be drawn through the filtration system rather than leak out into the surrounding areas. The air pressure inside the work are is less than that outside the work area.

Negative Pressure Enclosure (NPE) - An airtight enclosure for abatement where differential pressure is produced using exhaust ventilation equipment with HEPA filters.

NESHAP: National Emission Standards for Hazardous Air Pollutants - EPA Regulation 40 CFR subpart M, part 61.

NIOSH: The National Institute for Occupational Safety and Health which was established by the Occupational Safety and Health Act of 1970.

NIOSH/MSHA: The official approving agencies for respiratory protective equipment who test and certify respirators.

Nonfriable: Material which when dry may not be crumbled, pulverized, or reduced to powder by hand pressure.

Nonfriable Asbestos-Containing Material: Any material containing more that 1 percent asbestos that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Operations and Maintenance Program: A program of work practices to maintain ACM in good condition, ensure clean up of asbestos fibers previously released, and prevent further release by minimizing and controlling friable ACM disturbance or damage.

OSHA: The Occupational Safety and Health Administration which was created by the Occupational Safety and Health Act of 1970; serves as the enforcement agency for safety and health in the workplace environment.

PCM: Phase Contrast Microscopy.

PEL: Permissible Exposure Limit as stated by OSHA.

Penetrating Encapsulant: Liquid material applied to asbestos-containing material to control airborne fiber release by penetrating into the material and binding its components together.

Permissible Exposure Limits (PELS) - (1) Time-weighted Average Limit (TWA). The employer shall ensure that no employee is exposed to an airborne concentration of asbestos in excess of 0.1 fiber per cubic centimeter (f/cc) of air as an eight (8) hour time-weighted average (TWA). (2) Excursion Limit. The employer shall ensure that no employee is exposed to an airborne concentration of asbestos in excess of 1.0 fiber per cubic centimeter of air (1 f/cc) as averaged over a sampling period of thirty (30) minutes.

Personal Protective Equipment (PPE): Any material or device worn to protect a worker from exposure to, or contact with, any harmful material or force.

Personal Sample: An air sample taken with the sampling pump directly attached to the worker with the collecting filter placed in the worker's breathing zone.

PF: Protection factor is provided by the respirator which is determined by dividing the airborne fiber concentration outside of the mask by the concentration inside the mask.

Phase Contrast Microscopy (PCM): An optical microscopic technique used for the counting of fibers in air samples, but which does not distinguish fiber types.

Pipe Lagging: The insulation or wrapping around a pipe.

Polarized Light Microscopy (PLM): An optical microscopic technique used to identify asbestos and distinguish between different types of asbestos fibers by their shape and unique optical properties.

Polyethylene: Plastic sheeting which is often used to seal off an area in which asbestos removal is taking place for the purpose of preventing contamination of other areas.

Pre-Clean - The process of cleaning an area before asbestos abatement activities begin to ensure all dust and debris in the area considered to be asbestos-containing are properly contained and disposed of. This increases the likelihood the area will pass aggressive air sampling clearance requirements after asbestos-containing materials have been removed.

Project Monitor - The certified and licensed individual contracted or employed by the building owner or contractor to supervise and/or conduct air monitoring and analysis schemes. This individual is responsible for recognition of technical deficiencies in procedures during both planning and on-site phases of an abatement project. Requirements for Project Monitor are defined in the Connecticut Department of Public Health Regulations (Sections 20-440-1 through 20-440-9 inclusive). In addition to these requirements, this person shall be listed in the American Industrial Hygiene Association's Asbestos Analysts Registry.

Protective Clothing: Protective, lightweight garments (such as Tyvek suits) worn by workers performing asbestos abatement to keep gross contamination off the body.

Pulmonary Function Tests: A part of the medical examination required to determine the health status of a person's lungs.

Qualitative Fit Test: A method of testing a respirator's face-to-facepiece seal by covering the inhalation or exhalation valves and either breathing in or out to determine the presence of any leaks.

Regulated Area - Area established by the employer to demarcate areas where Class I, II and III work is conducted, and any adjoining area where debris and waste from such asbestos work accumulate; a work area within which airborne concentrations of asbestos exceed or there is a reasonable possibility they may exceed the PEL.

Regulated Asbestos-Containing Material (RACM): Means (a) Friable asbestos material, (b) Category I nonfriable ACM that has become friable, © Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by this subpart.

Removal: The taking out or stripping asbestos or materials containing asbestos.

Resilient Floor Covering: Asbestos-containing floor tile, including asphalt and vinyl floor tile, and sheet vinyl floor covering containing more than 1 percent asbestos as determined using polarized light microscopy.

Respirable: Breathable.

Respiratory Protection Program: A written program established by an employer which provides for the safe use of respirators by employees.

Response Action: A method, including removal, encapsulation, enclosure, repair, operations and maintenance, that protects human health and the environment from friable ACM.

Routine Maintenance Area: An area, such as a boiler room or mechanical room, in which maintenance employees or contract workers regularly conduct maintenance activities.

Serpentine: One of the two major groups of minerals from which the asbestiform minerals are derived, distinguished by their tubular structure and chemical composition.

Shower Room: A room between the clean room and the equipment room in a worker decontamination system in which workers take showers when leaving the work area.

Significantly Damaged Friable Miscellaneous ACM: Damaged friable miscellaneous ACM where the damage is extensive and severe.

Significantly Damaged Friable Surfacing ACM: Damaged friable surfacing ACM in a functional space where the damage is extensive and severe.

Substrate: The materials or existing surface located under or behind the asbestos-containing material.

Surfacing ACM: Surfacing material that is ACM.

Surfacing Material: Material in a school building that is sprayed-on, troweled-on, or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, or other purposes.

Surfactant: a chemical wetting agent added to water to improve its penetration abilities into asbestos-containing materials.

Thermal System Insulation: Material in a school building applied to pipes, fittings, boilers, breeching, tanks, ducts, or other interior structural components to prevent heat loss or gain, or water condensation, or for other purposes.

Thermal System Insulation ACM: Means thermal system insulation that is ACM.

Transmission Electron Microscopy (TEM): A method of microscopic analysis which utilizes an electron beam that is focused onto a thin sample. As the beam penetrates (transmits) through the sample, the difference in densities produces an image on a fluorescent screen from which samples can be identified and counted.

TWA: Time Weighted Average, as in air sampling.

USEPA: United States Environmental Protection Agency

Visible Emissions: Any emissions, which are visually detectable without the aid of instruments, coming from RACM or asbestos-containing waste material, or from any asbestos milling, manufacturing, or fabricating operation. This does not include condensed, uncombined water vapor.

Washroom: A room between the work are and the clean room in the equipment decontamination enclosure system where workers shower.

Waste Shipment Record: The shipping document, required to be originated and signed by the waste generator, used to track and substantiated the disposition of asbestos-containing waste material.

Water Damage: Deterioration or delamination of ceiling or wall materials due to leaks from plumbing or cracks in the roof.

Wet Cleaning: The process of eliminating asbestos contamination from surfaces and objects by using cloths, mops, or other cleaning tools which have been dampened with water.

Wetting Agents: Materials that are added to water which is used for wetting the asbestos-containing material in order for the water to penetrate more effectively.

APPENDIX B

Example Recordkeeping Form For Periodic Surveillance

REINSPECTION OF ASBESTOS-CONTAINING MATERIALS
MYSTIC EDUCATION CENTER, MYSTIC, CT

LOCATION (Building/Room Number): _____

TYPE OF MATERIAL: _____

LOCATION WITHIN ROOM: _____

DATE OF REINSPECTION: _____

DATE OF LAST INSPECTION: _____

ASSESSMENT:

1. EVIDENCE OF PHYSICAL DAMAGE: _____

2. EVIDENCE OF WATER DAMAGE: _____

3. DEGREE OF ACCESSIBILITY OF MATERIAL: _____

4. DEGREE OF ACTIVITY NEAR THE MATERIAL: _____

5. IS MATERIAL LOCATED IN AN AIR PLENUM OR AIR SHAFT?: _____

6. OTHER OBSERVATIONS: _____

7. **RECOMMENDED ACTIONS/LEVEL OF PRIORITY:** _____

EXAMPLES/GUIDANCE

* FOR ITEM #3, PIPE FITTINGS ABOVE A SUSPENDED CEILING AND VINYL FLOOR TILE BENEATH CARPET ARE EXAMPLES OF MATERIALS WHICH WOULD TYPICALLY HAVE A LOW LEVEL OF ACCESSIBILITY. EXPOSED VINYL FLOOR TILE WOULD TYPICALLY HAVE A HIGH LEVEL OF ACCESSIBILITY.

** FOR ITEM #4, A STORAGE CLOSET WOULD TYPICALLY HAVE A LOW LEVEL OF ACTIVITY, WHILE A CORRIDOR NEAR OFFICE AREAS WOULD HAVE A HIGH LEVEL OF ACTIVITY.

INSPECTOR NAME: _____ SIGNATURE: _____

APPENDIX C

Completed Periodic Surveillance Forms

APPENDIX D

Asbestos Job Request/Work Authorization Form

JOB REQUEST FORM FOR MAINTENANCE WORK
MYSTIC EDUCATION CENTER
MYSTIC, CT

REQUESTED BY: _____ DATE: _____

PLANNED WORK START DATE: _____ FINISH DATE: _____

LOCATION OF WORK (ROOM NUMBERS): _____

DESCRIPTION OF WORK (INCLUDE SPECIFIC AREAS/MATERIALS AFFECTED): _____

_____

_____

_____

_____

_____

_____

DESCRIPTION OF ANY ASBESTOS-CONTAINING MATERIALS WHICH MAY BE AFFECTED, IF KNOWN. PROVIDE LOCATION AND TYPE: _____

_____

_____

_____

_____

_____

REVIEWED BY ASBESTOS PROGRAM MANAGER: _____
(SIGNATURE / DATE)

DECISION BY ASBESTOS PROGRAM MANAGER (**CIRCLE ONE**):

APPROVED (DESCRIBE ANY CONDITIONS):_____

_____

_____

_____

DENIED: ASBESTOS IS PRESENT AND MAY BE DISTURBED. ABATEMENT BY AN OUTSIDE ASBESTOS CONTRACTOR MUST BE COMPLETED PRIOR TO INITIATION OF THE IN-HOUSE MAINTENANCE WORK.

NOTE:

THIS FORM IS TO BE SUBMITTED FOR ALL MAINTENANCE WORK. THE FORM MUST BE REVIEWED AND APPROVED BY THE ASBESTOS PROGRAM MANAGER PRIOR TO THE START OF ANY WORK. IF APPROVED, THE PROGRAM MANAGER SHALL ATTACH AN AUTHORIZATION FORM TO THIS REQUEST AND RETURN IT TO THE REQUESTOR.

AUTHORIZATION FORM FOR MAINTENANCE WORK
MYSTIC EDUCATION CENTER
MYSTIC, CT

AUTHORIZATION IS GIVEN TO PROCEED WITH THE WORK DESCRIBED ON THE ATTACHED REQUEST FORM. AUTHORIZATION IS BASED ON THE FOLLOWING DETERMINATION BY THE ASBESTOS PROGRAM MANAGER:

____ ASBESTOS MATERIALS ARE NOT PRESENT IN THE VICINITY OF THE WORK

____ ASBESTOS IS PRESENT, BUT ITS DISTURBANCE IS NOT ANTICIPATED

WORK PRACTICES TO BE FOLLOWED IF ASBESTOS IS PRESENT: _____

_____
_____
_____
_____
_____
_____
_____
_____
_____

NOTE: WORK SHALL BE PERIODICALLY MONITORED BY THE PROGRAM MANAGER TO ENSURE THAT ASBESTOS IS NOT DISTURBED. IF ACCIDENTAL DISTURBANCE OCCURS, NOTIFY THE PROGRAM MANAGER IMMEDIATELY.

AUTHORIZED BY ASBESTOS PROGRAM MANAGER: _____
(SIGNATURE / DATE)

APPENDIX E

Completed Job Request/Work Authorization Forms

APPENDIX F

Training Schedule

MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT
ASBESTOS TRAINING SCHEDULE

NAME	PROGRAM RESPONSIBILITY*	HOURS OF INITIAL TRAINING**	DATE OF INITIAL TRAINING	DATES OF REFRESHER TRAINING
	PROGRAM MGR.			
	MAINTENANCE STAFF			
	MAINTENANCE STAFF			
	MAINTENANCE STAFF			

* List the person's responsibilities with respect to the asbestos program, i.e., Program Manager, O&M Worker, Maintenance Staff.

** It is recommended that the Program Manager have at least 16 hours of training. Maintenance staff who do not handle asbestos should have at least 2 hours of awareness training.

APPENDIX G

Personnel Training Records

APPENDIX H

DPW Asbestos Abatement Request Form 33

HAZARDOUS MATERIAL INSPECTION/ABATEMENT REQUEST

TO: Jerry Glassman/ John Wytas
Statewide Services – Room 280
DPW-Asbestos/Lead Management
165 Capitol Avenue, Hfd., CT 06106

Tel. 860 713-5709
Tel.:860-713-5702
FAX: 860-713-7250

FROM: _____ TEL.: _____

_____

_____

_____

(Mailing Address)

DATE: _____, 2000

BUILDING NAME: _____ DPW # _____

ADDRESS: _____

PROJECT TYPE: _____ (Asbestos/Lead/Outdoor/Indoor/Air Quality

Capital (>$50K) Term (<$50K and/or time issue) Not known yet
(Circle One)

REQUESTED COMPLETION DATE OF INSPECTION: ____/____/____

TYPE OF INSPECTION/ABATEMENT REQUEST:
(Circle One)

_____ASBESTOS (circle): Roof, Floor, Tile, Piping, Ceiling Tile, Transite, or Other: _____
If asbestos in roof, please complete the following:
Bond or Warranty: _____
Access to roof from: _____

_____LEAD (circle): Paint, Piping, Soil, Water, Roofing Material, or Other: _____
(PLEASE INDICATE FUNDING SOURCE _____)

_____INDOOR AIR QUALITY (Describe Briefly): _____

_____

(PLEASE INDICATE FUNDING SOURCE _____)

SCOPE OF ASB. ABATEMENT (if applicable) _____

_____

_____

BUILDING AREA DESCRIPTION:
Specific Area in Question: _____

ON SITE/CONTACT PERSON: _____ TEL. # _____

AGENCY REPRESENTATIVE: _____ TEL. # _____

A/E CONSULTANT: _____ TEL. # _____

5/23/00

DESIGNREV (33)
HAZARDOUS MATERIAL INSPECTION REQUEST

APPENDIX I

Lead and Asbestos Survey Reports

APPENDIX J

Records of Asbestos Abatement Projects

- DRAFT -

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
GIRLS' BUILDING (DPW Building 16946)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: March 2001

DELTA
ENVIRONMENTAL
SERVICES®, INC.

81 Schoolground Road
P.O. Box 564, Branford, CT
(203) 481-7668

- DRAFT -

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
GIRLS' BUILDING (DPW Building 16946)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

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(203) 481-7668

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3-2 Asbestos-Containing Material

3-3 Non-Asbestos-Containing Material

5-1 Asbestos Abatement Cost Estimate

APPENDICES

APPENDIX A - Inventory of Identified Asbestos-Containing Material

APPENDIX B - Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

APPENDIX C - Laboratory and Inspector Accreditations

APPENDIX D - Building Diagrams

1.0 INTRODUCTION

This report summarizes the results of an asbestos and lead inspection conducted by DELTA Environmental Services, Inc. (DELTA) for the Girls' Building (DPW Building Number 16946) at the Mystic Education Center facility at 290 Oral School Road in Mystic, Connecticut. The project consisted of: review of available building records; physical inspection of the building to determine the quantities and locations of asbestos-containing materials (ACM); and bulk sampling of suspected asbestos-containing materials (ACM).

2.0 BUILDING DESCRIPTION

Mystic Education Center is a seven-building campus-type facility. The property consists of approximately 122 acres and 250,000 square feet of building floor space. The Girls' Building is one of the oldest buildings on the campus and was constructed in 1928. The building consists of: a kitchen area and storage rooms in the basement; offices on the first floor; vacant dormitory areas on the second floor and vacant office areas on the third floor. The building is heated via steam radiators.

3.0 ASBESTOS SURVEY

3.1 Asbestos Sampling Procedures

Bulk samples of suspected ACM were collected by James P. McCarthy, P.E., of DELTA, a Connecticut Department of Public Health licensed inspector. Samples were collected using a clean knife or other appropriate tool after first wetting the material to be sampled to limit fiber release.

Samples were placed in dedicated sealable plastic bags and promptly transmitted to the analytical laboratory using strict chain of custody procedures. Sampling was performed in accordance with Environmental Protection Agency protocols, which require a minimum of three negative results in order to establish that a material does not contain asbestos.

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
1	1217243	Brown Baseboard Molding Adhesive	Second Floor Corridor Near G205	NAD
2	1217244	Brown Baseboard Molding Adhesive	Second Floor Room G209	NAD
3	1217245	Brown Baseboard Molding Adhesive	Second Floor Room G209	NAD
4	1217246	Yellow Baseboard Molding Adhesive	Second Floor Room G210	NAD
5	1217247	Yellow Baseboard Molding Adhesive	Second Floor Room G210	NAD
6	1217248	Yellow Baseboard Molding Adhesive	Second Floor Room G210	NAD
7	1217249	Light Brown 12" Floor Tile with Dark Brown and White Streaks Mastic	Second Floor Room G209	1.3% Chrysotile (Point Count) NAD
8	1217250	Light Brown 12" Floor Tile with Dark Brown and White Streaks Mastic	Second Floor Room G209	Not Analyzed* NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
9	1217251	Light Brown 12" Floor Tile with Dark Brown and White Streaks Mastic	Second Floor Room G209	Not Analyzed* NAD
10	1217252	Sheetrock	Second Floor Day Room Southeast Corner	NAD
11	1217253	Joint Compound	Second Floor Day Room Southeast Corner	NAD
12	1217254	Sheetrock	Second Floor Room G205 Closet Wall	NAD
13	1217255	Joint Compound	Second Floor Room G205 Closet Wall	NAD
14	1217256	Sheetrock	Second Floor Corridor Near Room 210	NAD
15	1217257	Joint Compound	Second Floor Corridor Near Room 210	1.5% Chrysotile (Point Count)

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
16	1217258	Linoleum Mastic	Second Floor Room G216	NAD NAD
17	1217259	Linoleum Mastic	Second Floor Room G216	NAD NAD
18	1217260	Linoleum Mastic	Second Floor Room G216	NAD NAD
19	1217261	Skim Coat on Sheetrock	Third Floor Room G306	NAD
20	1217262	Skim Coat on Sheetrock	Third Floor Room G306	NAD
21	1217263	Skim Coat on Sheetrock	Third Floor Room G306	NAD
22	1217264	Sheetrock	Third Floor Room G306	NAD
23	1217265	Joint Compound	Third Floor Room G304	NAD
24	1217266	Sheetrock	Third Floor Room G304	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
25	1217267	Sheetrock	Third Floor Room G302	NAD
26	1217268	Joint Compound	Third Floor Room G302	NAD
27	142-666-39	Brown Linoleum	Room G106	NAD
28	142-666-40	Brown Linoleum	Room G106	NAD
29	142-666-41	Brown Linoleum	Room G106	NAD
30	142-666-42	Tan 12" Floor Tile	Room G106 (salient)	< 1% Chrysotile
	142-666-45	Yellow Mastic From Above		NAD
31	142-666-43	Tan 12" Floor Tile	Room G106 (salient)	< 1% Chrysotile
	142-666-46	Yellow Mastic From Above		NAD
32	142-666-44	Tan 12" Floor Tile	Room G106 (salient)	< 1% Chrysotile
	142-666-47	Yellow Mastic From Above		NAD
33	142-666-48	Wall Plaster Top Coat	First Floor Room G106	NAD
34	142-666-49	Wall Plaster Brown Coat		NAD
35	142-666-50	Wall Plaster Top Coat	First Floor Room G107	NAD
36	142-666-51	Wall Plaster Brown Coat		NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
37	142-666-52	Joint Compound	Room G107	NAD
38	142-666-53	Joint Compound	Room G107	NAD
39	142-666-54	Joint Compound	Room G107	NAD
40	142-666-55	Sheetrock Partition Wall	Room G107	NAD
41	142-666-56	Sheetrock Partition Wall	Room G107	NAD
42	142-666-57	Sheetrock Partition Wall	Room G107	NAD
43	142-666-58	Pipe Insulation	Kitchen Area Near G15 Above Ceiling	70% Chrysotile
44	142-666-59	Suspended Ceiling Tile 2' X 4' Type 1 - Dot & Groove Pattern	Kitchen Area Near G15 Above Ceiling	NAD
45	142-666-60	Suspended Ceiling Tile 2' X 4' Type 1 - Dot & Groove Pattern	Kitchen Area Near G15 Above Ceiling	NAD
46	142-666-61	Suspended Ceiling Tile 2' X 4' Type 1 - Dot & Groove Pattern	Kitchen Area Near G15 Above Ceiling	NAD
47	142-666-62	Wall Plaster Top Coat	Stairwell Landing to Basement Kitchen Area	NAD
48	142-666-63	Wall Plaster Brown Coat		NAD
55	142-666-72	Wall Plaster Top Coat	Second Floor Corridor	NAD
56	142-666-73	Wall Plaster Brown Coat		NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
57	142-666-74	Wall Plaster Top Coat	Basement Room G5	NAD
58	142-666-75	Wall Plaster Brown Coat		NAD
79	142-666-100	Ceiling Plaster Top Coat	First Floor Room G104	NAD
79	142-666-101	Ceiling Plaster Brown Coat		NAD
97	1217269	Cork/Bituminous Ceiling	Basement Cooler Room Between G9 and G10	6.5% Chrysotile (Point Count)
98	1217270	Cork/Bituminous Ceiling	Basement Cooler Room Between G9 and G10	Not Analyzed*
99	1217271	Cork/Bituminous Ceiling	Basement Cooler Room Between G9 and G10	Not Analyzed*
100	1217272	Concrete Wall	Basement Cooler Room Between G9 and G10	1.3% Chrysotile (Point Count)
101	1217273	Concrete Wall	Basement Cooler Room Between G9 and G10	Not Analyzed*
102	1217274	Concrete Wall	Basement Cooler Room Between G9 and G10	Not Analyzed*
103	1217275	Fitting on Fiberglass Pipe to Heat Exchanger	Old Boiler Room	NAD
104	1217276	Fitting on Fiberglass Pipe Below Cold Water Valve	Old Boiler Room	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
105	1217277	Fitting on Fiberglass Pipe to Hot Water Tank	Old Boiler Room	NAD
106	1217278	Hot Water Tank Insulation	Old Boiler Room	3.5% Chrysotile (Point Count)
107	1217279	Heat Exchanger Insulation	Old Boiler Room	30% Chrysotile
108	1217280	Beige 12" Floor Tile	Third Floor Room G304	0.25% Chrysotile (Point Count)
		Mastic		NAD
109	143-248-11	Wall Plaster Top Coat	First Floor Room G101	NAD
110	143-248-12	Wall Plaster Brown Coat	North Wall	NAD
111	143-248-13	Wall Plaster Top Coat	First Floor Room G101	NAD
112	143-248-14	Wall Plaster Brown Coat	Southeast Corner	NAD
113	143-248-15	Ceiling Plaster Top Coat	First Floor Room G103	NAD
114	143-248-16	Ceiling Plaster Brown Coat		NAD
115	143-248-17	Wall Plaster Top Coat	First Floor Room G110	NAD
116	143-248-18	Wall Plaster Brown Coat		NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
117	143-248-19	Wall Plaster Brown Coat	Basement Room Beneath G101 Near Wall	NAD
118	143-248-20	Wall Plaster Brown Coat	Basement Room Beneath G101 Far Wall	NAD
119	143-248-21	Wall Plaster Top Coat	Basement Room G7	NAD
120	143-248-22	Wall Plaster Brown Coat		NAD
121	143-248-23	Wall Plaster Top Coat	Basement Room G5	NAD
122	143-248-24	Wall Plaster Brown Coat		NAD
123	143-248-25	Wall Plaster Top Coat	Basement Room G8	NAD
124	143-248-26	Wall Plaster Brown Coat		NAD
125	143-248-27	Wall Plaster Top Coat	Second Floor Room G216	NAD
126	143-248-28	Wall Plaster Brown Coat		NAD
127	1184280	Ceiling Tile 12" Square	Copy Center	5.4% Amosite (Point Count)
128	1184281	Ceiling Tile 12" Square	Copy Center	Not Analyzed*
129	1184282	Ceiling Tile 12" Square	Copy Center	Not Analyzed*

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
130	1184283	Beige 12" Floor Tile Yellow Mastic From Above	Second Floor Room G215	NAD NAD
131	1184284	Beige 12" Floor Tile Yellow Mastic From Above	Second Floor Room G215	NAD NAD
132	1184285	Beige 12" Floor Tile Yellow Mastic From Above	Second Floor Room G215	NAD NAD
133	1184286	Tan 12" Floor Tile Yellow Mastic From Above	Second Floor Corridor	NAD NAD
134	1184287	Tan 12" Floor Tile Yellow Mastic From Above	Second Floor Corridor	NAD NAD
135	1184288	Tan 12" Floor Tile Yellow Mastic From Above	Second Floor Corridor	NAD NAD
148	1217315	Window Glazing	Exterior Wood Window	NAD
149	1217316	Window Glazing	Exterior Wood Window	NAD
150	1217317	Window Glazing	Exterior Wood Window	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
151	1217318	Window Caulk	Exterior Wood Window	1.3% Chrysotile (Point Count)
152	1217319	Window Caulk	Exterior Wood Window	Not Analyzed*
153	1217320	Window Caulk	Exterior Wood Window	Not Analyzed*
154	143-726-7	Red 9" Floor Tile with White Streaks	Basement Room G7	3% Chrysotile
	143-726-10	Mastic		14% Chrysotile
155	143-726-8	Red 9" Floor Tile with White Streaks	Basement Room G7	Not Analyzed*
	143-726-11	Mastic		Not Analyzed*
156	143-726-9	Red 9" Floor Tile with White Streaks	Basement Room G7	Not Analyzed*
	143-726-12	Mastic		Not Analyzed*
157	143-726-13	Suspended Ceiling Tile 2' X 4' Type 2 - Dot Pattern	Basement Room G7	14% Amosite
158	143-726-14	Suspended Ceiling Tile 2' X 4' Type 2 - Dot Pattern	Basement Room G8	Not Analyzed*
159	143-726-15	Suspended Ceiling Tile 2' X 4' Type 2 - Dot Pattern	Basement Room G13	Not Analyzed*

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
160	143-726-16	Green 9" Floor Tile	Basement Room G8	7% Chrysotile
	143-726-19	Mastic		19% Chrysotile
161	143-726-17	Green 9" Floor Tile	Basement Room G8	Not Analyzed*
	143-726-20	Mastic		Not Analyzed*
162	143-726-18	Green 9" Floor Tile	Basement Room G8	Not Analyzed*
	143-726-21	Mastic		Not Analyzed*
163	143-726-22	Brown Baseboard Molding Adhesive	Basement Room G7	NAD
164	143-726-23	Brown Baseboard Molding Adhesive	Basement Room G7	NAD
165	143-726-24	Brown Baseboard Molding Adhesive	Basement Room G7	NAD

NOTE: "NAD" INDICATES NO ASBESTOS DETECTED

* EPA protocols consider one positive result as confirmation that a material contains asbestos. If the first sample of a material is found to contain asbestos, no further confirmation is necessary and any additional samples are therefore not analyzed.

3.2 Asbestos Analytical Procedures

Analysis was performed by International Asbestos Testing Laboratories, Inc. (IATL), Mt. Laurel, New Jersey, and Chemscope, Inc., North Haven, Connecticut. Both laboratories are accredited by the National Institute of Standards and Technology accredited laboratory. Analysis was performed using Polarized Light Microscopy (PLM) Method EPA 600. Point counting was used to quantify asbestos content for all samples found to contain less than ten percent asbestos.

3.3 Asbestos Analytical Results

The results of recent bulk sampling performed by DELTA are summarized in Table 3-1. Laboratory data sheets are included in Appendix B.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: pipe and pipe fitting insulation, heat exchanger insulation and hot water tank insulation in the basement boiler room (Room G-11); pipe and pipe fitting insulation present throughout the basement; red 9" floor tile and mastic present in isolated areas of the basement; green 9" floor tile and mastic present in isolated areas of the basement and first floor; light brown 12" floor tile (the tile mastic does not contain asbestos) in rooms G-208 and G-209 on the second floor; 2' by 4' suspended ceiling tile present throughout much of the basement; 12" square ceiling tile present in Rooms 102 and 105 on the First Floor; a tar coating on cork ceiling lining in the basement cooler room between rooms G-9 and G-10; wall mortar material in the basement cooler room between rooms G-9 and G-10; sheetrock joint compound in portions of the second floor; and exterior window caulk.

The basement boiler room (the room provides heat for the Whipple Building) contains asbestos insulation on a heat exchanger and hot water tank. Asbestos-containing "aircell" type pipe insulation (four to six inches in diameter) is also present with asbestos-containing mudded fittings. Mudded fittings on fiberglass-insulated pipe runs in the boiler room were tested and found not to contain asbestos. The insulation in the boiler room is in poor to fair condition. Some asbestos insulation debris was noted on the floor at the far wall of the room.

TABLE 3-2: ASBESTOS-CONTAINING MATERIAL
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

HOMOGENEOUS AREA NUMBER	MATERIAL DESCRIPTION	LOCATION	ASBESTOS TYPE AND CONTENT (%)
1	Light Brown 12" Floor Tile with Dark Brown and White Streaks	Second Floor Room G209	1.3% Chrysotile
2	Joint Compound	Second Floor Partition and Room Closet Walls	1.5% Chrysotile
3	Pipe Insulation	Throughout	70% Chrysotile
4	Suspended Ceiling Tile - 2' X 4' Type 2 - Pinhole Pattern White Face with Gray Interior	Throughout Basement Except for Rooms G2, G3, G14, G15	14% Amosite
5	Acoustical Ceiling Tile - 1' X 1' (Homogeneous with Admin. Bldg. West Side of Second Fl. Corridor)	Copy Center, Room G102	5.4% Amosite
6	Red 9" Floor Tile	Basement Rooms G5, G7	3% Chrysotile
7	Mastic From Red 9" Floor Tile	Basement Rooms G5, G7	14% Chrysotile
8	Green 9" Floor Tile	Basement Rooms G1, G3, G4, G6, G8, G13, G14, G15, Basement Corridors, Stairwell Landings, Corridor to Admin. Building	7% Chrysotile

TABLE 3-2: ASBESTOS-CONTAINING MATERIAL GIRLS' BUILDING MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
9	Mastic From Green 9" Floor Tile	Basement Rooms G1, G3, G4, G6, G8, G13, G14, G15, Basement Corridors, Stairwell Landings, Corridor to Admin. Building	19% Chrysotile
10	Exterior Window Caulk	Throughout	1.3% Chrysotile
11	Cork/Bituminous Ceiling	Basement Cooler Room Between G9 and G10	6.5% Chrysotile
12	Concrete Wall	Basement Cooler Room Between G9 and G10	1.3% Chrysotile
13	Hot Water Tank Insulation	Basement Boiler Room G11	3.5% Chrysotile
14	Heat Exchanger Insulation	Basement Boiler Room G11	30% Chrysotile
NOTE: NAD indicates "No Asbestos Detected"			

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

HOMOGENEOUS AREA NUMBER	MATERIAL DESCRIPTION	LOCATION	ASBESTOS TYPE AND CONTENT (%)
15	Brown Linoleum	Throughout Most of Building	NAD
16	Tan "Granite Pattern" Linoleum	Second Floor Room G216	NAD
17	Tan 12" Floor Tile	Room G106, Second Floor Corridor and Second Floor Day Room	< 1% Chrysotile
18	Mastic From Tan 12" Floor Tile	Room G106, Second Floor Corridor	NAD
19	Beige 12" Floor Tile	Second Floor Rooms G200, G201, G202, G205, G207, G208, G210, G212 and Third Floor Rooms G302, G304	< 1% Chrysotile
20	Mastic From Beige 12" Floor Tile	Second Floor Bedrooms	NAD
21	Mastic From Light Brown 12" Floor Tile with Dark Brown and White Streaks	Second Floor Room G209	NAD
22	Brown Baseboard Molding Adhesive	Basement and Second Floor	NAD
23	Yellow Baseboard Molding Adhesive	Second Floor Room G210	NAD
24	Wall Plaster Top Coat	Throughout	NAD

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

25	Wall Plaster Brown Coat	Throughout	NAD
26	Ceiling Plaster Top Coat	Throughout	NAD
27	Ceiling Plaster Brown Coat	Throughout	NAD
28	Sheetrock	Room G107	NAD
29	Joint Compound	Room G107	NAD
30	Sheetrock	Second Floor Partition and Room Closet Walls	NAD
31	Sheetrock	Third Floor Offices	NAD
32	Joint Compound	Third Floor Offices	NAD
33	Skim Coat on Sheetrock	Third Floor Room G306	NAD
34	Suspended Ceiling Tile - 2' X 4' Type 1 - Dot and Groove Pattern White Face with Brown Interior	Basement Kitchen Area (Room G14), First and Second Floor Corridors	NAD
35	Glue Dots From Acoustical Ceiling Tile - 1' X 1' (Homogeneous with Admin. Bldg. West Side of Second Fl. Corridor)	Copy Center, Room G102	NAD

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL GIRLS' BUILDING MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
36	Exterior Window Glazing	Throughout	NAD
37	Mudded Fittings on Fiberglass Insulated Piping	Basement Boiler Room G11	NAD
NOTE: NAD indicates "No Asbestos Detected"			

Asbestos-containing pipe insulation is present throughout the basement of the building, though it has been removed in some isolated areas. Rooms G-8 and G-14 have newer appearing fiberglass pipe insulation below the suspended ceilings, with both fiberglass and asbestos insulation above the ceilings. Room G-2 was reportedly abated as the result of a steam pipe leak.

It appears that the asbestos-containing thermal systems insulation in the basement should be assigned a moderate level of priority for abatement, due to its impact on future building maintenance activities.

The various types of vinyl floor tile in the building were found to contain between 1.3 and 7% chrysotile asbestos. Mastic from the 9" tile was also found to contain asbestos, at concentrations ranging from 14 to 19% chrysotile. Mastic from the 12" asbestos tile on the second floor does not contain asbestos. Floor tile is generally in poor to fair condition in the basement, with loose tiles in several spots. Tile on the upper floors is generally in good condition. Though the floor tile in the building is unlikely to present a hazard unless it is actively disturbed, any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile (and mastic if applicable) as asbestos.

One type of 2' by 4' suspended ceiling tile present throughout much of the basement was found to contain 14% amosite asbestos. A type of 1' square ceiling tile (glued to the ceiling and walls) present in Rooms 102 and 105 on the first floor was found to contain 5% amosite asbestos. It appears that these materials should be assigned a moderate level of priority for abatement, due to their impact on future building maintenance activities. Specifically, the 2' X 4' suspended tile should not be disturbed given the potential for release of asbestos fibers.

A tar coating (on cork ceiling lining) and wall mortar in the basement cooler room between rooms G-9 and G-10 were found to contain asbestos; these materials are nonfriable and unlikely to present an asbestos hazard unless actively disturbed.

Sheetrock joint compound in portions of the second floor was found to contain 2% chrysotile asbestos. The sheetrock is damaged in a few spot areas; it is recommended that these areas be abated.

Exterior window caulking material was found to contain 1.3% chrysotile asbestos. Window glazing was found not to contain asbestos. The caulking material is hard and is nonfriable. The caulking is unlikely to release asbestos fibers under normal conditions, but would have to be addressed if the windows are replaced.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

4.0 DISCUSSION AND RECOMMENDATIONS

The Girls' Building is one of the oldest buildings on the campus and was constructed in 1928. The building consists of: a kitchen area and storage rooms in the basement; offices on the first floor; dormitory areas (currently vacant) on the second floor and vacant office areas on the third floor. The building is heated via steam radiators.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: pipe and pipe fitting insulation, heat exchanger insulation and hot water tank insulation in the basement boiler room (Room G-11); pipe and pipe fitting insulation present throughout the basement; red 9" floor tile and mastic present in isolated areas of the basement; green 9" floor tile and mastic present in isolated areas of the basement and first floor; light brown 12" floor tile (the tile mastic does not contain asbestos) in rooms G-208 and G-209 on the second floor; 2' by 4' suspended ceiling tile present throughout much of the basement; 12" square ceiling tile present in Rooms 102 and 105 on the First Floor; a tar coating on cork ceiling lining in the basement cooler room between rooms G-9 and G-10; wall mortar material in the basement cooler room between rooms G-9 and G-10; and sheetrock joint compound in portions of the second floor.

The basement boiler room contains asbestos insulation on a heat exchanger and hot water tank. Asbestos-containing "aircell" type pipe insulation is also present with asbestos-containing mudded fittings. Mudded fittings on fiberglass-insulated pipe runs in the boiler room were tested and found not to contain asbestos. The insulation in the boiler room is in poor to fair condition. Some asbestos insulation debris was noted on the floor at the far wall of the room. Asbestos-containing pipe insulation is present throughout the basement of the building, though it has been removed in some isolated areas. It appears that the asbestos-containing thermal systems insulation in the basement should be assigned a moderate level of priority for abatement, due to its impact on future building maintenance activities.

Asbestos-containing floor tile is generally in poor to fair condition in the basement, with loose tiles in several spots. Tile on the upper floors is generally in good condition. Though the floor tile in the building is unlikely to present a hazard unless it is actively disturbed, any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile (and mastic if applicable) as asbestos.

One type of 2' by 4' suspended ceiling tile present throughout much of the basement was found to contain 14% amosite asbestos. A type of 1' square ceiling tile (glued to the ceiling and walls) present in Rooms 102 and 105 on the first floor was found to contain 5% amosite asbestos. It appears that these materials should be assigned a moderate level of priority for abatement, due to their impact on building maintenance activities. Specifically, the 2' X 4' suspended tile should not be disturbed given the potential for release of asbestos fibers.

A tar coating (on cork ceiling lining) and wall mortar in the basement cooler room between rooms G-9 and G-10 were found to contain asbestos; these materials are nonfriable and unlikely to present an asbestos hazard unless actively disturbed.

Sheetrock joint compound in portions of the second floor was found to contain 2% chrysotile asbestos. The sheetrock is damaged in a few spot areas; it is recommended that these areas be abated.

Exterior window caulking material was found to contain 1.3% chrysotile asbestos. Window glazing was found not to contain asbestos. The caulking material is hard and is nonfriable. The caulking is unlikely to release asbestos fibers under normal conditions, but would have to be addressed if the windows are replaced.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

5.0 ESTIMATED COST FOR ASBESTOS ABATEMENT

A cost estimate for abatement of all identified asbestos-containing materials in the building is outlined in Table 5-1. The estimated cost for abatement of the building (including thermal systems reinsulation) is $119,496. It should be noted that the cost estimate does not include removal of roofing materials. The cost estimate utilizes standard unit prices for removal of different types of asbestos-containing materials. When an actual asbestos abatement project is planned, a more precise estimate can be developed based on the specific work scope.

6.0. LIMITATIONS

The survey has the following limitations:

- DELTA's survey included an evaluation for the presence of asbestos-containing insulation on electrical equipment in the building. The inspection included building wiring, whips and fixtures. No suspect insulation was found. The inspection was designed to cover a representative portion of the building, since it was not feasible to examine all fixtures, junction boxes, etc.

- The survey did not utilize "destructive" sampling methods, and therefore may not have identified all of the asbestos-containing materials in the building. Specifically, the inspection did not include areas enclosed by walls or ceilings, unless these spaces could be accessed without damage.

- The survey did not include destructive sampling of furnishings such as chalkboards, corkboards, fire doors and benchtops.

- The survey attempted to access and identify asbestos-containing materials associated with HVAC and mechanical systems. However, such systems were not dismantled during the inspection. It is possible that boilers, furnaces, fan units and other devices may contain gaskets and other interior asbestos material which can only be accessed through dismantling them. Care should be taken to avoid the accidental disturbance of asbestos during maintenance or repair work on such devices.

TABLE 5-1: ASBESTOS ABATEMENT COST ESTIMATE
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT
(TOTAL ABATEMENT OF ASBESTOS-CONTAINING MATERIALS)

Building/Description	Quantity	Unit	Unit Cost	Subtotal Cost	Consultant (20%)	Contingency (10%)	Total Cost
REMOVAL							
Thermal Systems Insulation	214	SF	$10.00	$2,140	$428	$214	$2,782
Thermal Systems Insulation	873	LF	$15.00	$13,095	$2,619	$1,309	$17,023
Surfacing (Cooler Wall/Ceiling Lining)	240	SF	$12.50	$3,000	$600	$300	$3,900
Misc. (Sheetrock)	3,040	SF	$5.00	$15,200	$3,040	$1,520	$19,760
Misc. (VAT/Mastic)	5,370	SF	$5.00	$26,850	$5,370	$2,685	$34,905
Misc. (Ceiling Tile)	3,280	SF	$5.00	$16,400	$3,280	$1,640	$21,320
REPLACEMENT							
Thermal Systems Insulation	214	SF	$10.00	$2,140	$428	$214	$2,782
Thermal Systems Insulation	873	LF	$15.00	$13,095	$2,619	$1,309	$17,023
Surfacing		SF	N/A				
Misc.		SF	N/A				
GRAND TOTAL				$91,920	$18,384	$9,192	$119,496
						ABATEMENT ESTIMATE:	**$119,496**

NOTE: TABLE DOES NOT INCLUDE ABATEMENT OF ANY EXTERIOR ASBESTOS SUCH AS WINDOW CAULK OR ROOFING.

APPENDIX A

Inventory of Identified Asbestos-Containing Material

GIRLS' BUILDING
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
BASEMENT													
	PIPE TUNNEL TO ADMIN												
G1		8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	150								
G1		3	PIPE/FITTING INSULATION	70%				25	10				
G1		4	2' X 4' SUSPENDED CEILING TILE	14%		150							
G2													ROOM PREVIOUSLY ABATED
G3		8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	120								
G3		3	PIPE/FITTING INSULATION	70%				20	2				
G4	BATHROOM	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	120								
G4	BATHROOM	3	PIPE/FITTING INSULATION	70%				15	5				
G4	BATHROOM	4	2' X 4' SUSPENDED CEILING TILE	14%		120							
G1 - G4	CORRIDOR	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	70								
G1 - G4	CORRIDOR	3	PIPE/FITTING INSULATION	70%				6	1				
G1 - G4	CORRIDOR	4	2' X 4' SUSPENDED CEILING TILE	14%		70							
G5		6	9" RED FLOOR TILE/MASTIC	3% / 14%	400								
G5		3	PIPE/FITTING INSULATION	70%				50	10				
G5		4	2' X 4' SUSPENDED CEILING TILE	14%		400							
G6	BATHROOM	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	150								
G6	BATHROOM	3	PIPE/FITTING INSULATION	70%				20	6				
G6	BATHROOM	4	2' X 4' SUSPENDED CEILING TILE	14%									
G7		6	9" RED FLOOR TILE/MASTIC	3% / 14%	700								
G7		3	PIPE/FITTING INSULATION	70%				65	5				
G7		4	2' X 4' SUSPENDED CEILING TILE	14%		700							
G7 - G8	CORRIDOR	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	50								
G7 - G8	CORRIDOR	3	PIPE/FITTING INSULATION	70%				12	2				
G7 - G8	CORRIDOR	4	2' X 4' SUSPENDED CEILING TILE	14%		50							
G9 - G12	CORRIDOR	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	120								
G8		8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	400								
G8		3	PIPE/FITTING INSULATION	70%				100	8				
G8		4	2' X 4' SUSPENDED CEILING TILE	14%		400							
G9		8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	100								
COOLER ROOM	BET. G9 AND G10	11	CORK CEILING LINING WITH TAR COATING	7%		40							
COOLER ROOM	BET. G9 AND G10	12	CONCRETE WALL LINING	1.3%			200						
G10		8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	100								
G11	BOILER RM. FOR WHIPPLE	3	PIPE/FITTING INSULATION					100	12				SOME INSUL. IS FIBERGLASS
G11	BOILER RM. FOR WHIPPLE	14	HEAT EXCHANGER INSULATION	30%							30		ASB. DEBRIS ON FLOOR
G11	BOILER RM. FOR WHIPPLE	13	HOT WATER TANK INSULATION	4%							60		ASB. DEBRIS ON FLOOR

GIRLS' BUILDING
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
G12		8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	100								
G13		8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	350								
G13		3	PIPE/FITTING INSULATION	70%				20	1				MOST OF PIPE INSUL. IS FIBERGLASS
G13		4	2' X 4' SUSPENDED CEILING TILE	14%		350							
G14	KITCHEN	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	1500								
G14	KITCHEN	3	PIPE/FITTING INSULATION	70%				400	50				MOST OF PIPE INSUL. IS FIBERGLASS
G15	LAUNDRY	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	300								FLOOR TILE IS IN POOR CONDITION
G15	LAUNDRY	3	PIPE/FITTING INSULATION	70%				40	12				
	BASEMENT LANDING	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	100								
BASE/1ST	INT. LANDING	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	60								
FIRST FL.													
	CORRIDOR TO ADMIN.	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	300								
G101													
G102	OFFICE	5	1' X 1' CEILING TILE	5%		900							TILE IS PRESENT ON WALLS AND CEILING
G103	BATHROOM												
G104													
G105	COPY CENTER	5	1' X 1' CEILING TILE	5%		100							TILE IS PRESENT ON WALLS AND CEILING
G106	AUDITORIUM												
G107	FORMER CLASSROOM												
	CORRIDOR												

GIRLS' BUILDING
MYSTIC EDUCATION CENTER
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ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
SECOND FL.													
G200	MAIL ROOM												
G201	BEDROOM												
G202	BEDROOM												
G203	BATHROOM												
G204	BATHROOM												
G205	BEDROOM	2	SHEETROCK JOINT COMPOUND	2%			110						DAMAGE AT CLOSET WALL
CORRIDOR	ALONG ROOM 205	2	SHEETROCK JOINT COMPOUND	2%			70						
G207	BEDROOM	2	SHEETROCK JOINT COMPOUND	2%			600						ALL WALLS
G206	BEDROOM	2	SHEETROCK JOINT COMPOUND	2%			280						SOUTH AND WEST WALLS
G208	BEDROOM	1	12" LIGHT BROWN FLOOR TILE	1.3%	10								ACM TILE IS IN CLOSET ONLY
G209	BEDROOM	2	SHEETROCK JOINT COMPOUND	2%			280						SOUTH AND EAST WALLS
G209	BEDROOM	1	12" LIGHT BROWN FLOOR TILE	1.3%	270								
G210	BEDROOM	2	SHEETROCK JOINT COMPOUND	2%			600						ALL WALLS
CORRIDOR	ALONG ROOMS 207-210	2	SHEETROCK JOINT COMPOUND	2%			500						4 SF DAMAGED; HOLE PUNCHED IN WALL
G211	BEDROOM	2	SHEETROCK JOINT COMPOUND	2%			110						CLOSET WALL AND CORRIDOR WALL
DAY ROOM	DAYROOM	2	SHEETROCK JOINT COMPOUND	2%			350						NORTH WALL ONLY
CORRIDOR	ALONG ROOM 211	2	SHEETROCK JOINT COMPOUND	2%			70						
CORRIDOR	STAIRWELL NEAR 211	2	SHEETROCK JOINT COMPOUND	2%			70						
G212	BEDROOM												
G213	MEDICATION ROOM												
G213A	CLOSET												
G214	BATHROOM												
G215	BEDRODM												
CLOSET	NEAR G215												
CORRIDOR	MAIN CORRIDOR												
G216	BEDROOM												

GIRLS' BUILDING
MYSTIC EDUCATION CENTER
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ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
THIRD FL.													
G301	OFFICE												
G302	OFFICE												
G303	OFFICE												
G304	OFFICE												
G305	OFFICE												
G306	OFFICE												
G307	OFFICE												
G308	OFFICE												
G309	OFFICE												
G310	BATHROOM												
	CUSTODIAN CLOSET												
G311	OFFICE												
STAIRWELLS													
EAST	BASEMENT LANDING	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	100								
	INT. BETWEEN BASE/FIRST	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	60								
WEST	BASEMENT LANDING	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	100								
	INT. BETWEEN BASE/FIRST	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	60								

APPENDIX B

Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-35 Gray mastic (from under sample #32) / 23-Basement Cafeteria	*No Asbestos Detected* *42% Non- Fibrous Particles* *58% Volatile on Ignition*
142-666-36 Gray mastic (from under sample #33) / 24-Basement Cafeteria	*No Asbestos Detected* *18% Non- Fibrous Particles* *82% Volatile on Ignition*
142-666-37 Gray mastic (from under sample #34) / 25-Basement Cafeteria	*No Asbestos Detected* *31% Non- Fibrous Particles* *69% Volatile on Ignition*
142-666-38 Beige crumbly molding adhesive with a brown undercoating () / 26-Basement Cafeteria	*No Asbestos Detected* *83% Non- Fibrous Particles* *17% Volatile on Ignition*
142-666-39 Brown hard flooring material on brown woven material () / 27-Girl's Building G106	*No Asbestos Detected* *33% Non- Fibrous Particles* *67% Volatile on Ignition*
142-666-40 Brown hard flooring material on brown woven material () / 28-Girl's Building G106	*No Asbestos Detected* *28% Non- Fibrous Particles* *72% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-41 Brown hard flooring material on brown woven material () / 29-Girl's Building G106	*No Asbestos Detected* *23% Non- Fibrous Particles* *77% Volatile on Ignition*
142-666-42 Hard tan 12x12 floor tile (on yellow mastic) / 30-Salient Area G106	*<1% Chrysotile Asbestos* *81% Non- Fibrous Particles* *19% Volatile on Ignition*
142-666-43 Hard tan 12x12 floor tile (on yellow mastic) / 31-Salient Area G106	*<1% Chrysotile Asbestos* *82% Non- Fibrous Particles* *18% Volatile on Ignition*
142-666-44 Hard tan 12x12 floor tile (on yellow mastic) / 32-Salient Area G106	*<1% Chrysotile Asbestos* *81% Non- Fibrous Particles* *19% Volatile on Ignition*
142-666-45 Yellow mastic (from under sample #42) / 30-Salient Area G106	*No Asbestos Detected* *64% Non- Fibrous Particles* *36% Volatile on Ignition*
142-666-46 Yellow mastic (from under sample #43) / 31-Salient Area G106	*No Asbestos Detected* *72% Non- Fibrous Particles* *28% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-47 Yellow mastic (from under sample #44) / 32-Salient Area G106	*No Asbestos Detected* *63% Non- Fibrous Particles* *37% Volatile on Ignition*
142-666-48 White hard plaster layer (on light gray granular plaster layer) / 33-Salient Area G106	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-49 Light gray granular plaster layer (from under sample #48) / 34-Salient Area G106	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
142-666-50 White hard plaster layer (on light gray granular plaster layer) / 35-G107	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-51 Light gray granular plaster layer (from under sample #50) / 36-Salient Area G106	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
142-666-52 White crumbly joint compound with a light blue face () / 37-G107	*No Asbestos Detected* *100% Non- Fibrous Particles*

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Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-53 White crumbly joint compound with a light blue face () / 38-G107	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-54 White crumbly joint compound with a light blue face () / 39-G107	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-55 Gray crumbly sheetrock with brown fibrous paper layers and a light blue face () / 40-G107	*No Asbestos Detected* *65% Non- Fibrous Particles* *20% Cellulose* *15% Fiberglass*
142-666-56 Gray crumbly sheetrock with brown fibrous paper layers and a light blue face () / 41-G107	*No Asbestos Detected* *65% Non- Fibrous Particles* *20% Cellulose* *15% Fiberglass*
142-666-57 Gray crumbly sheetrock with brown fibrous paper layers and a light blue face () / 42-G107	*No Asbestos Detected* *65% Non- Fibrous Particles* *20% Cellulose* *15% Fiberglass*
142-666-58 Gray fibrous pipe insulation with a brown coating () / 43-Kitchen Area Near G15 Above Ceiling	*70% Chrysotile Asbestos* *10% Non- Fibrous Particles* *20% Cellulose*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-59 Gray fibrous 2x4 suspended ceiling tile () / 44-Kitchen Area Near G15 Above Ceiling	*No Asbestos Detected* *10% Non- Fibrous Particles* *40% Cellulose* *50% Mineral Wool*
142-666-60 Gray fibrous 2x4 suspended ceiling tile () / 45-Kitchen Area Near G15 Above Ceiling	*No Asbestos Detected* *10% Non- Fibrous Particles* *40% Cellulose* *50% Mineral Wool*
142-666-61 Gray fibrous 2x4 suspended ceiling tile () / 46-Kitchen Area Near G15 Above Ceiling	*No Asbestos Detected* *10% Non- Fibrous Particles* *40% Cellulose* *50% Mineral Wool*
142-666-62 White hard plaster layer (on gray granular plaster layer) / 47-Stairwell Landing to Basement Kitchen Area	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-63 Gray granular plaster layer (from under sample #62) / 48-Stairwell Landing to Basement Kitchen Area	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
142-666-64 Light brown hard 9x9 floor tile (on brown and black mastic) / 49-Wipple Corridor #1 Near Dining Room	*Not Analyzed*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-71 Black mastic (from under gray 9x9 floor tile) / 54-Wipple Room 165	*Not Analyzed*
142-666-72 White hard plaster layer (on light gray granular plaster layer) / 55-Girl's Building Second Floor Corridor	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-73 Light gray granular plaster layer (from under sample #72) / 56-Girl's Building Second Floor Corridor	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*
142-666-74 White hard plaster layer (on light gray granular plaster layer) / 57-Girl's Building Basement	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-75 Light gray granular plaster layer (from under sample #74) / 58-Girl's Building Basement	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*
142-666-76 White hard plaster layer (on light gray granular plaster layer) / 59-Administration Building Stairs to Basement Near A-B	*No Asbestos Detected* *100% Non- Fibrous Particles*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-95 Light gray granular plaster layer (from under sample #94) / 74-Administration Building Corridor Near A252 Second Floor-West Side	*2% Amosite Asbestos* *88% Non- Fibrous Particles* *10% Mineral Wool* *<1% Cellulose* *<1% Horse Hair*
142-666-96 Tan fibrous 12x12 large pinhole ceiling tile with a white face () / 75-Administration Building Corridor Second Floor-East Side	*No Asbestos Detected* *2% Non- Fibrous Particles* *98% Cellulose*
142-666-97 Tan fibrous 12x12 large pinhole ceiling tile with a white face () / 76-Administration Building Corridor Second Floor-East Side	*No Asbestos Detected* *2% Non- Fibrous Particles* *98% Cellulose*
142-666-98 Tan fibrous 12x12 large pinhole ceiling tile with a white face () / 77-Administration Building Corridor Second Floor-East Side	*No Asbestos Detected* *2% Non- Fibrous Particles* *98% Cellulose*
142-666-99 Brown hard glue dab (from under 12x12 ceilign tile) / 78-Administration Building Corridor Second Floor-East Side	*No Asbestos Detected* *48% Non- Fibrous Particles* *52% Volatile on Ignition*
142-666-100 White hard plaster layer (on light gray granular plaster layer) / 79-G104	*No Asbestos Detected* *100% Non- Fibrous Particles*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-101 Light gray granular plaster layer (from under sample #100) / 79-G104	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*
142-666-102 Light gray crumbly pipe fitting (on fiberglass insulation) / 80-Whipple Corridor Above Ceiling Near 156	*No Asbestos Detected* *55% Non- Fibrous Particles* *45% Mineral Wool* *<1% Cellulose*
142-666-103 Light gray crumbly pipe fitting (on fiberglass insulation) / 81-Whipple Corridor Above Ceiling Near 156	*No Asbestos Detected* *55% Non- Fibrous Particles* *45% Mineral Wool* *<1% Cellulose*
142-666-104 Light gray crumbly pipe fitting (on fiberglass insulation) / 82-Whipple Corridor Above Ceiling Near 156	*No Asbestos Detected* *55% Non- Fibrous Particles* *45% Mineral Wool* *<1% Cellulose*
142-666-105 Hard gray 9x9 floor tile with black dot pattern (on black mastic) / 83-Whipple Corridor Connecting Passage	*3% Chrysotile Asbestos* *72% Non- Fibrous Particles* *25% Volatile on Ignition*
142-666-106 Hard gray 9x9 floor tile with black dot pattern (on black mastic) / 84-Whipple Corridor Connecting Passage	*Not Analyzed*

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: P 97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
25	White 12" Floor Tile w/ Green Stream							Basement, Cafeteria				
26	Molding Adhesive							↓				
27	Brown Linoleum						No Asbestos Detected	Girl's Building G106				
28	↓						↓	↓				
29	↓							↓				
30	Tan 12" Floor Tile							G106 (Patient Area)				
31	↓							↓				
32	↓							↓				
33	Wall Plaster Top Coat						No Asbestos Detected	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Palucell	4-19-00	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

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34	Wall plaster Brown coat						No Asbestos Detected	G106				
35	Wall plaster top coat						↓	G107				
36	Wall plaster Brown coat						↓	↓				
37	Joint Compound partition wall											
38	↓											
39	↓											
40	Sheetrock partition wall											
41	↓											
42	↓											

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
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SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patuch	9-19-00	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

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ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
43	Pipe Insulation							Kitchen Area Near G15 above ceiling				
44	2 x 4 suspended ceiling tile											
45												
46												
47	Wall plaster top coat						No Asbestos	Stairwell landing to basement Kitchen Area				
48	Wall plaster brown coat						No Asbestos					
49	Light Brown 9" Floor Tile						Not Analyzed.	Wineke Corridor No. 1 Near Dining Rm				
50	Mastic from Light brown 9" floor tile						1% Chrysotile Asbestos					
51	Gray 9" Floor Tile						Not Analyzed	Room 165 Wineke				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
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SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patucchi	9-19-00	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

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ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
S2	Gray 9" Floor Tile							Room 165 Whipple				
S3	↓							↓				
S4	Mastic from Gray 9" Floor Tile						8% Chrysotile Asbestos	↓				
S5	Wall Plaster Top Coat							Girls' Building 2nd Floor Corridor				
S6	Wall Plaster Brown Coat							↓				
S7	Wall Plaster Top Coat						No Asbestos	Girls' Building Basement				
S8	Wall Plaster Brown Coat						No Asbestos	↓				
S9	Wall Plaster Top Coat						No Asbestos	Admin. Bldg. Stairs to Basement Near A-B				
60	Wall Plaster Brown Coat						No Asbestos	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patucelli	9-19-00	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

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ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
61	Ceiling Tiles 2'x4' suspended							Landing near A-B (Admin. Bldg)				
62	↓							↓				
63	↓							↓				
64	Ceiling Cement/ Skim Coat							Room A238				
65	↓							↓				
66	↓							↓				
67	Wall Plaster Top Coat							↓				
68	Wall Plaster Bottom Coat							↓				
69	Wall Plaster Bottom Coat						White-No Asbestos Lt gray-No Asbestos	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Paticelli	9-19-00	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-140-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
70	12" x 12" Ceiling Tile + Tyre 1	Glue Dot					15% Amosite Asbestos	Admin. Bldg Corridor Near A252 2nd Floor - West side				
71												
72												
73	Ceiling Plaster Top Coat						No Asbestos.					
74	Ceiling Plaster Brown Coat						2% Amosite Asbestos					
75	12" x 12" Ceiling Tile Large pinhole						No Asbestos.	Admin Bldg Corridor 2nd Floor - East side				
76												
77												
78	Glue Dot from 12" x 12" ceiling Tile											

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Paluciti	9/9/00	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D 97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
79	Ceiling Plaster Both Layers							G 104				
80	Pipe Fitting or Fiberglass Insulation						No Asbestos Detected.	White corridor above ceiling near 156				
81	↓							↓				
82	↓							↓				
83	Tan 9" Dot Pattern Floor Tile						3% Chrysotile Asbestos	White corridor connecting passage				
84	↓							↓				
85	↓							↓				
86	Light Brown 9" Floor Tile							White corridor near Exit				
87	↓							↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patterson	9-19-00	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217243 **Material Description:** Dk.Brown Mastic
Client No.: 1 **Location:** 2nd Floor Corridor Near 205

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100

Lab No. 1217244 **Material Description:** Dk.Brown Mastic
Client No.: 2 **Location:** Room 209

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100

Lab No. 1217245 **Material Description:** Dk.Brown Mastic
Client No.: 3 **Location:** Room 209

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100

Lab No. 1217246 **Material Description:** Yellow Mastic
Client No.: 4 **Location:** Room 210

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: MUHAMMAD T. MIRZA

Date: JAN 2001

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

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CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217247 **Material Description:** Yellow Mastic
Client No.: 5 **Location:** Room 210

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100

Lab No. 1217248 **Material Description:** Yellow Mastic
Client No.: 6 **Location:** Room 210

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100

Lab No. 1217249 **Material Description:** Tan/Dk.BrownFlr.Tile
Client No.: 7 **Location:** Yellow Mastic Room 209

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.3	Chrysotile	None Detected	None Detected	PC 98.7

Lab No. 1217249 **Material Description:** Tan/Dk.BrownFlr.Tile
Client No.: 7 **Location:** Yellow Mastic Room 209

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100
Yellow Mastic				
From Above				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: MUHAMMAD T. MIRZA

Date: JAN 31 2001

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

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Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217250 **Material Description:** Yellow Mastic
Client No.: 8 **Location:** Room 209

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100

Floor Tile

Not Analyzed

Lab No. 1217251 **Material Description:** Yellow Mastic
Client No.: 9 **Location:** Room 209

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100

Floor Tile

Not Analyzed

Lab No. 1217252 **Material Description:** Tan/Off-White
Client No.: 10 **Location:** Sheetrock 2nd Floor; Dayroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	10	Fibrous Glass	60
		30	Cellulose	

Lab No. 1217253 **Material Description:** White Joint Compound
Client No.: 11 **Location:** 2nd Floor; Dayroom S.E. Corner

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: MUHAMMAD T. MIRZA

Date: JAN

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

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Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217254 **Material Description:** Tan Sheetrock
Client No.: 12 **Location:** Room 205; Closet

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	10	Cellulose	80
		10	Fibrous Glass	

Lab No. 1217255 **Material Description:** White Joint Compound
Client No.: 13 **Location:** Room 205; Closet

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1217256 **Material Description:** Tan/Off-White
Client No.: 14 **Location:** Sheetrock Corridor; Near 210

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	10	Cellulose	90

Lab No. 1217257 **Material Description:** Off-WhiteJt.Compound
Client No.: 15 **Location:** Corridor; Near 210

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.5	Chrysotile	None Detected	None Detected	PC 98.5

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

Date:

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Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217258 **Material Description:** Lt.Tan Linoleum
Client No.: 16 **Location:** Yellow Mastic Room 216

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	15	Cellulose	75
		5	Fibrous Glass	
		5	Synthetic	

Lab No. 1217258 **Material Description:** Lt.Tan Linoleum
Client No.: 16 **Location:** Yellow Mastic Room 216

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100
Yellow Mastic				
From Above				

Lab No. 1217259 **Material Description:** Lt.Tan Linoleum
Client No.: 17 **Location:** Yellow Mastic Room 216

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	15	Cellulose	75
		5	Fibrous Glass	
		5	Synthetic	

Lab No. 1217259 **Material Description:** Lt.Tan Linoleum
Client No.: 17 **Location:** Yellow Mastic Room 216

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100
Yellow Mastic				
From Above				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: MUHAMMAD T. MIRZA

Date: JA

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

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PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217260 **Material Description:** Lt.Tan Linoleum
Client No.: 18 **Location:** Yellow Mastic Room 216

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	15	Cellulose	75
		5	Fibrous Glass	
		5	Synthetic	

Lab No. 1217260 **Material Description:** Lt.Tan Linoleum
Client No.: 18 **Location:** Yellow Mastic Room 216

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100
Yellow Mastic				
From Above				

* **Lab No.** 1217261 **Material Description:** White Joint Compound
Client No.: 19 **Location:** Room 306

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

* **Lab No.** 1217262 **Material Description:** White Joint Compound
Client No.: 20 **Location:** Room 306

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: MUHAMMAD T. MIRZA

Date: JAN 2 2001

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

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Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

* **Lab No.** 1217263 **Material Description:** White Joint Compound
Client No.: 21 **Location:** Room 306

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1217264 **Material Description:** Tan Sheetrock
Client No.: 22 **Location:** Room 306

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	5	Fibrous Glass	70
No Joint Compound		25	Cellulose	

* **Lab No.** 1217265 **Material Description:** Tan Sheetrock
Client No.: 23 **Location:** Room 304

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	5	Fibrous Glass	75
No Joint Compound		20	Cellulose	

* **Lab No.** 1217266 **Material Description:** White Joint Compound
Client No.: 24 **Location:** Room 304

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

* Different material than indicated on Sample Log/Description.

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: MUHAMMAD T. MIRZA

Date: JAN

Approved By: Frank Ehrenfeld

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Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217267 **Material Description:** Tan Sheetrock
Client No.: 25 **Location:** Room 302

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	5	Fibrous Glass	65
No Joint Compound		30	Cellulose	

Lab No. 1217268 **Material Description:** White Joint Compound
Client No.: 26 **Location:** Room 302

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1217269 **Material Description:** Black Tar
Client No.: 97 **Location:** Basement Cooler Room Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 6.5	Chrysotile	3	Cellulose	PC 90.5

Lab No. 1217270 **Material Description:** Sample Not Analyzed
Client No.: 98 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: MUHAMMAD T. MIRZA

Date:

Approved By: Frank Ehrenfeld

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Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217271 **Material Description:** Sample Not Analyzed
Client No.: 99 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1217272 **Material Description:** Lt.Grey Concrete
Client No.: 100 **Location:** Basement Cooler Room Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.3	Chrysotile	None Detected	None Detected	PC 98.7

Lab No. 1217273 **Material Description:** Sample Not Analyzed
Client No.: 101 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1217274 **Material Description:** Sample Not Analyzed
Client No.: 102 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: MUHAMMAD T. MIRZA

Date:

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

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Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217275 **Material Description:** Grey Insulation
Client No.: 103 **Location:** Heat Exchanger Old Boiler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Mineral Wool	70

Lab No. 1217276 **Material Description:** Grey Insulation
Client No.: 104 **Location:** Below Cold Water Shut Off Valve

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Mineral Wool	70

Lab No. 1217277 **Material Description:** Grey Insulation
Client No.: 105 **Location:** Hot Water Tank Old Boiler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Mineral Wool	70

Lab No. 1217278 **Material Description:** Grey Insulation
Client No.: 106 **Location:** Old Boiler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.5	Chrysotile	30	Mineral Wool	PC 66.5

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Approved By: Frank Ehrenfeld

Date:

Frank E. Ehrenfeld, III
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CERTIFICATE OF ANALYSIS

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Report Date: 01/31/2001
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Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217279 **Material Description:** Off-White/Lt.Grey
Client No.: 107 **Location:** Insulation Old Boiler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
30	Chrysotile	10	Mineral Wool	60

Lab No. 1217280 **Material Description:** OffWhite/GreyFlrTile
Client No.: 108 **Location:** Yellow Mastic Room 304

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.25	Chrysotile	None Detected	None Detected	PC 99.75

Lab No. 1217280 **Material Description:** OffWhite/GreyFlrTile
Client No.: 108 **Location:** Yellow Mastic Room 304

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100

Yellow Mastic
From Above

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: MUHAMMAD T. MIRZA

Date:

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

ATL International Asbestos Testing Laboratories
16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 609.231.9449 Fax: 609.231.9818

972/8

- Chain of Custody -

Client: Delta Environmental Services
P.O. Box 564
Branford, CT 06405

Project Name: Mystic Education Center
Project No.: D97-148-24

Phone: (203) 481-7668
FAX: (203) 488-8164

Contact: Jim McCarthy
Pager:

Special Instructions:

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[✓] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400
[ ] PCM : OSHA
[ ] PCM : Other_____

[ ] AAS : NIOSH 7082 (Air)
[ ] AAS : Lead in Drinking Water
[ ] AAS : Lead in Paint ASTM D3335-85a
[ ] AAS : Lead Dust/Wipe
[ ] AAS : Other Metals / Soil_____

[✓] PLM : Bulk Asbestos EPA 600
[ ] PLM : Point Counting 198.1
[ ] PLM : NOB via 198.1 (PLM only)
[ ] If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements **
(**call to confirm TAT!)

[ ] TEM : AHERA
[ ] TEM : NIOSH 7402
[ ] TEM : EPA Level II
[ ] TEM : Microvac Dust
[ ] TEM : Asbestos in Water
[ ] TEM : Bulk Analysis
[ ] TEM : NOB 198.4
[ ] TEM : Other_____
[ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ date / time Verbals: _____ date / time

[ ] 10 Day [ ] 5 Day [✓] 72 hour [ ] 48 hour [ ] 24 hour [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): _____ (start) - _____ (end) IATL#(s): _____ (start) - _____ (end) Total: __

Chain of Custody:

Relinquished:	June R McCarthy	Date: 1/24/01	Time: 3:00 pm
Received:		Date:	Time:
Sample Log-in:	C01/297830	Date:	Time:
Sample Prep:		Date:	Time:
Analyzed:	MM	Date: 1/31/01	Time:
QA/QC Review:	JAN 25	Date: 2/1/01	Time:

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center
PROJECT LOCATION: Mystic, CT Girl's Building
PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify ___ O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
1	Brown Baseboard Molding Adhesive	1	217	243			Asbestos PCM EPA 600 positive stop	2nd Floor Corridor Near 205				
2	↓	1	217	244			↓	Room 209				
3	↓	1	217	245			↓	Room 209				
4	Yellow Baseboard Molding Adhesive	1	217	246			positive stop	Room 210				
5	↓	1	217	247			↓	↓				
6	↓	1	217	248			↓	↓				
7	Light Brown 12" Floor Tile w/ Dark Brown & white streaks	1	217	249			positive stop	Room 209				
8	↓	1	217	250			↓	↓				
9	↓	1	217	251			↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify ___

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
10	Sheetrock	12	17	252			Asbestos PCM EPA 600	2nd Floor Dayroom SE Corner				
11	Joint Compound	12	17	253				↓				
12	Sheetrock	12	17	254				Room 205 Closet				
13	Joint Compound	12	17	255				↓				
14	Sheetrock	12	17	256				Corridor Near 210				
15	Joint Compound	12	17	257				↓				
16	Tan/white Linoleum	12	17	258			Positive stop	Room 216				
17	↓	12	17	259			↓	↓				
18	↓	12	17	260			↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Malatesta	Delta			1		James R Malatesta			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

DELTA Environmental Services,® Inc.

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
19	Skim Coat on Sheetrock	12	17	261			Asbestos PCM EPA 600 positive stop	Room 306				
20	↓	12	17	262			↓	↓				
21	↓	12	17	263			↓	↓				
22	Sheetrock	12	17	264				Room 306				
23	Joint Compound	12	17	265				Room 304				
24	Sheetrock	12	17	266				↓				
25	↓	12	17	267				Room 302				
26	Joint Compound	12	17	268				Room 302				
97	Cork/Bitumen Coating	12	17	269				Basement Cooler Room Ceiling				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED		COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
98	Cord/Bituminous Coating				1217270		Asbestos PLM EPA 600	positive stop	Basement Cooker Room Ceiling				
99	↓				1217271			↓	↓				
100	Concrete Wall				1217272			positive stop					
101	↓				1217273			↓	↓				
102	↓				1217274			↓	↓				
103	Fitting on Fiberglass Piping				1217275			positive stop	Heat Exchanger Old Boiler Room				
104	↓				1217276			↓	Below Cold Water Shutoff Valve				
105	↓				1217277			↓	Hot Water Tank Old Boiler Room				
106	Hot Water Tank Insul.				1217278				Old Boiler Room				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Malatto	Delta			1		James R Malatto			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

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(203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
107	Heat Exchanger Insulation				121	7279	Asbestos PLM EPA 600	Old Boiler Room				
108	Beige 12" Floor Tile				121	7280		Room 304				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

Bulk sample(s) from Mystic Educational Center, Mystic CT received from customer on 11/15/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
143-248-11 White hard plaster top coat with a blue face (wall) / 109-G101-North Wall	*No Asbestos Detected* *100% Non- Fibrous Particles*
143-248-12 Gray granular plaster layer (wall) / 110-G101-North Wall	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*
143-248-13 White hard plaster top coat with a blue face (wall) / 111-G101-Southeast Corner	*No Asbestos Detected* *100% Non- Fibrous Particles*
143-248-14 Brown granular plaster layer (wall) / 112-G101-Southeast Corner	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose*
143-248-15 White hard plaster top coat (ceiling) / 113-G103	*No Asbestos Detected* *100% Non- Fibrous Particles*
143-248-16 Gray granular plaster layer (ceiling) / 114-G103	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose*

Bulk sample(s) from Mystic Educational Center, Mystic CT received from customer on 11/15/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
143-248-17 White hard plaster top coat with a gray face and a tan undercoat (wall) / 115-G110	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Synthetic Fibers*
143-248-18 Gray granular plaster layer (wall) / 116-G110	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
143-248-19 Gray granular plaster layer (wall) / 117-Girls'd Building-Room Below G101-Near Wall	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
143-248-20 Gray granular plaster layer (wall) / 118-Girls'd Building-Room Below G101-Near Wall	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
143-248-21 White hard plaster top coat with an off-white face (wall) / 119-Room G7	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose*
143-248-22 Gray granular plaster layer (wall) / 120-Room G7	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*

Bulk sample(s) from Mystic Educational Center, Mystic CT received from customer on 11/15/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
143-248-23 Pale gray hard plaster top coat with an off-white face (wall) / 121-Room G5	*No Asbestos Detected* *100% Non- Fibrous Particles*
143-248-24 Gray granular plaster layer (wall) / 122-Room G5	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
143-248-25 White hard plaster top coat with a beige face (wall) / 123-Room G8	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose*
143-248-26 Gray granular plaster layer (wall) / 124-Room G8	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*
143-248-27 White hard plaster top coat with an off-white face (wall) / 125-Room G216	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose*
143-248-28 Brown granular plaster layer (wall) / 126-Room G216	*No Asbestos Detected* *100% Non- Fibrous Porticles* *<1% Cellulose*

NVLAP ACCREDITED LAB# 101061-0

Bulk sample(s) from Mystic Educational Center, Mystic CT received from customer on 11/15/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**

AIHA Bulk Asbestos Proficiency Analytical Testing (PAT) Program. PAT Proficient Lab #100134
Accreditation by the National Institute of Standards and Technology/National Voluntary Lab Accreditation Program (NVLAP) does not imply endorsement by this Federal Agency.
This report pertains only to the samples tested and may not be reproduced in part.
The scope of Accreditation referenced in this report pertains to bulk asbestos analysis by PLM.
Connecticut Approved Environmental Lab PH 0581
See test parameters on reverse side of this report.

Signature (if applicable)	**Signature (if applicable)**	*Authorized Signature:* or	*Authorized Signature:* Suzanne Cristante
Analyst	**Inspector**	*Ronald D. Arena* *Director*	*Suzanne Cristante* *QA Coordinator*

NVLAP ACCREDITED LAB# 101061-0

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Educational Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
108	Ceiling. Both plaster layers							3rd Floor Corridor Admin Bldg Office A328				
109	Wall plaster top coat						PLEASE USE SAMPLES POSITIVE STOP 109-126 No Asbestos Detected	G101 - North wall				
110	Wall plaster Brown Coat						No Asbestos Detected	↓				
111	Wall plaster top coat							G101 - SE Corner				
112	Wall plaster Brown Coat							↓				
113	Ceiling plaster top coat							G 103				
114	Ceiling plaster Brown Coat							↓				
115	Wall plaster top coat							G 110				
116	Wall plaster Brown Coat						↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Palucelli	11-15-00	9:55am
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Educational Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
117	Wall plaster Brown coat						PLEASE USE SAMPLES POSITIVE STOP 109-126 No Asbestos Detected	Girls' Bldg Room Below G101 Near wall				
118	↓						No Asbestos Detected	↓ Far wall				
119	Wall plaster Top coat							Room G7				
120	Wall plaster Brown coat							↓				
121	Wall plaster Top coat							Room G5				
122	Wall plaster Brown coat							↓				
123	Wall plaster Top coat							Room G8				
124	Wall plaster Brown coat							↓				
125	Wall plaster Top coat						↓	Room G216				

Container Codes: P = Plastic E = EPA VIAL G = Glass A = Amber Glass B = Bacteria Bottle
Preservative Codes: I = Iced F = Filtered N = Nitric Acid (HNO_3) H = Hydrochloric Acid (HCl) S= Sodium Hydroxide (NaOH) T = Sodium Thiosulfate F = Sulfuric Acid
O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patrick	11-15-00	9:53am
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
26	Wall Plaster Brown Coat							Room G216				

Container Codes: P = Plastic E = EPA VIAL G = Glass A = Amber Glass B = Bacteria Bottle
Preservative Codes: I = Iced F = Filtered N = Nitric Acid (HNO_3) H = Hydrochloric Acid (HCl) S= Sodium Hydroxide (NaOH) T = Sodium Thiosulfate F = Sulfuric Acid
O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patucelli	11-15-00	9:53am
ADDITIONAL COMMENTS:				2					
				3					
				4					

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 11/24/2000
Project: Mystic Education Center, 11-14-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1184278 **Material Description:** Brown Floor Tile
Client No.: 97 **Location:** Basement Maintenance Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC Trace	Chrysotile	None Detected	None Detected	100

No Mastic

Lab No. 1184279 **Material Description:** Black Mastic
Client No.: 98 **Location:** Basement Maintenance Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1184280 **Material Description:** White Ceiling Tile
Client No.: 127 **Location:** Girls Bldg. Copy Center

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 5.4	Amosite	70	Fibrous Glass	PC 24.6

Lab No. 1184281 **Material Description:** Sample Not Analyzed
Client No.: 128 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 11/22/2000
Project: Mystic Education Center, 11-14-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1184282 **Material Description:** Sample Not Analyzed
Client No.: 129 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1184283 **Material Description:** Off-White Floor Tile
Client No.: 130 **Location:** Yellow Mastic G215

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1184283 **Material Description:** Off-White Floor Tile
Client No.: 130 **Location:** Yellow Mastic G215

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Yellow Mastic From Above				

Lab No. 1184284 **Material Description:** Off-White Floor Tile
Client No.: 131 **Location:** Yellow Mastic G210

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By:

Date:

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 11/22/2000
Project: Mystic Education Center, 11-14-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1184284 **Material Description:** Off-White Floor Tile
Client No.: 131 **Location:** Yellow Mastic G210

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Yellow Mastic				
From Above				

Lab No. 1184285 **Material Description:** Off-White Floor Tile
Client No.: 132 **Location:** Yellow Mastic G207

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1184285 **Material Description:** Off-White Floor Tile
Client No.: 132 **Location:** Yellow Mastic G207

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Yellow Mastic				
From Above				

Lab No. 1184286 **Material Description:** Tan Floor Tile
Client No.: 133 **Location:** Yellow Mastic 2nd Floor Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 11/22/2000
Project: Mystic Education Center, 11-14-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1184286 **Material Description:** Tan Floor Tile
Client No.: 133 **Location:** Yellow Mastic 2nd Floor Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Yellow Mastic
From Above

Lab No. 1184287 **Material Description:** Tan Floor Tile
Client No.: 134 **Location:** Yellow Mastic 2nd Floor Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1184287 **Material Description:** Tan Floor Tile
Client No.: 134 **Location:** Yellow Mastic 2nd Floor Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Yellow Mastic
From Above

Lab No. 1184288 **Material Description:** Tan Floor Tile
Client No.: 135 **Location:** Yellow Mastic 2nd Floor Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 11/22/2000
Project: Mystic Education Center, 11-14-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1184288
Client No.: 135

Material Description: Tan Floor Tile
Location: Yellow Mastic 2nd Floor Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Yellow Mastic				
From Above				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By:

Date:

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 609.231.9449 Fax: 609.231.9818

972/8

- Chain of Custody -

Client: Delta Environmental Services
P.O. Box 564
Branford, CT 06405

Project Name: Mystic Education Center
Project No.: Mystic, CT
047-148-24

Phone: (203) 481-7668
FAX: (203) 488-8164

Contact: Jim McCarthy
Pager:

Special Instructions:

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[✓] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400	[✓] PLM : Bulk Asbestos EPA 600	[ ] TEM : AHERA
[ ] PCM : OSHA	[ ] PLM : Point Counting 198.1	[ ] TEM : NIOSH 7402
[ ] PCM : Other_____	[ ] PLM : NOB via 198.1 (PLM only)	[ ] TEM : EPA Level II
	[ ] If <1% by PLM, to TEM via 198.4	[ ] TEM : Microvac Dust
[ ] AAS : NIOSH 7082 (Air)	to meet NYSDOH requirements **	[ ] TEM : Asbestos in Water
[ ] AAS : Lead in Drinking Water	(**call to confirm TAT!)	[ ] TEM : Bulk Analysis
[ ] AAS : Lead in Paint ASTM D3335-85a		[ ] TEM : NOB 198.4
[ ] AAS : Lead Dust/Wipe		[ ] TEM : Other_____
[ ] AAS : Other Metals / Soil_____		[ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ (date / time) Verbals: _____ (date / time)

[ ] 10 Day [ ] 5 Day [✓] 72 hour [ ] 48 hour [ ] 24 hour [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

97 - 98

Client #(s): 127 (start) - 135 (end)

IATL#(s): _____ (start) - _____ (end) Total: ___

Chain of Custody:

Relinquished:	Jane A. McArthur	Date: 11/14/00	Time: 4:00pm
Received:	[illegible]	Date:	Time:
Sample Log-in:	[illegible]	Date:	Time:
Sample Prep:		Date:	Time:
Analyzed:	[illegible]	Date: 11/22/00	Time:
QA/QC Review:	[illegible]	Date: 11/24/00	Time:

NOV 18

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

DELTA Environmental Services,® Inc.

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
97	Brown 9" Floor Tile						1184278	Basement Maintenance Shop				
98	Matte From Above						1184279	↓				
127	12" Ceiling Tile						1184280 Please use positive stop	Girls' Bldg. Copy center				
128	↓						1184281 ↓	↓				
129	↓						1184282 ↓	↓				
130	12" Beige Floor Tile						1184283 Please use positive stop	G 215				
131	↓						1184284 ↓	G 210				
132	↓						1184285 ↓	G 207				
133	12" Brown/Tan Floor Tile						1184286 Please use positive stop with #134,135	2nd Floor Corridor				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

NOV 18

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1					
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well; O = Outfall; WO = Waste Oil; RO = Run Off; B = Bottom Sediment; SW = Sewage; SG = Sludge; S = Soil; R = River/Stream; LF = Landfill; WW = Wastewater; L = Lake/Ocean; X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
134	12" Brown/Tan Floor Tile						1184287 Please use positive stop	2nd Floor Corridor				
135	↓						1184288 ↓	↓				

Container Codes: P = Plastic; E = EPA VIAL; G = Glass; A = Amber Glass; B = Bacteria Bottle

Preservative Codes: I = Iced; F = Filtered; N = Nitric Acid (HNO_3); H = Hydrochloric Acid (HCl); S= Sodium Hydroxide (NaOH); T = Sodium Thiosulfate; F = Sulfuric Acid; O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1					
ADDITIONAL COMMENTS:				2					
				3					
				4					

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217315 **Material Description:** White Glazing
Client No.: 148 **Location:** Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1217316 **Material Description:** White Glazing
Client No.: 149 **Location:** Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1217317 **Material Description:** White Glazing
Client No.: 150 **Location:** Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1217318 **Material Description:** Yellow Caulk
Client No.: 151 **Location:** Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.3	Chrysotile	None Detected	None Detected	PC 98.7

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Graciela Manjarres N.

Date: JAN 2001

Graciela Manjarres N., AIHA-AAP

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217319
Client No.: 152
Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1217320
Client No.: 153
Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Graciela Manjarres N.

Date: JAN

Graciela Manjarres N., AIHA-AAP

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

97/8 (2)

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Girls' Building

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
148	Window Glazing				121	7315	Asbestos PLM EPA 600 / PLEASE USE POSITIVE STOP					
149	↓				121	7316	↓					
150	↓				121	7317	↓					
151	Window Caulk				121	7318	PLEASE USE POSITIVE STOP					
152	↓				121	7319	↓					
153	↓				121	7320	↓					

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R. McLaughlin	Delta			1		James R. McLaughlin			
ADDITIONAL COMMENTS:				2					
				3					
				4		[illegible]		1/31/2001	

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 1/4/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
143-726-5 Orange mastic (from under sample #2) / 2-Administrative Building A151	*No Asbestos Detected* *39% Non- Fibrous Particles* *61% Volatile on Ignition*
143-726-6 Orange mastic (from under sample #3) / 3-Administrative Building A151	*No Asbestos Detected* *30% Non- Fibrous Particles* *70% Volatile on Ignition*
143-726-7 Red 9x9 floor tile with white streaks (on black mastic) / 4-Girl's Building-Room G7	*3% Chrysotile Asbestos* *71% Non- Fibrous Particles* *26% Volatile on Ignition*
143-726-8 Red 9x9 floor tile with white streaks (on black mastic) / 5-Girl's Building-Room G7	*Not Analyzed*
143-726-9 Red 9x9 floor tile with white streaks (on black mastic) / 6-Girl's Building-Room G7	*Not Analyzed*
143-726-10 Black mastic (from under sample #4) / 4-Girl's Building-Room G7	*14% Chrysotile Asbestos* *22% Non- Fibrous Particles* *64% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 1/4/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
143-726-11 Black mastic (from under sample #5) / 5-Girl's Building-Room G7	*Not Analyzed*
143-726-12 Black mastic (from under sample #6) / 6-Girl's Building-Room G7	*Not Analyzed*
143-726-13 Light gray fibrous 2x4 suspended ceiling tile with a white face (Type 2) / 7-Girl's Building-Room G7	*14% Amosite Asbestos* *14% Non- Fibrous Particles* *65% Mineral Wool* *7% Volatile on Ignition*
143-726-14 Light gray fibrous 2x4 suspended ceiling tile with a white face (Type 2) / 8-Girl's Building-Room G8	*Not Analyzed*
143-726-15 Light gray fibrous 2x4 suspended ceiling tile with a white face (Type 2) / 9-Girl's Building-Room G13	*Not Analyzed*
143-726-16 Green 9x9 floor tile (on black mastic) / 10-Girl's Building-Room G8	*7% Chrysotile Asbestos* *66% Non- Fibrous Particles* *27% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 1/4/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
143-726-17 Green 9x9 floor tile (on black mastic) / 11-Girl's Building-Room G8	*Not Analyzed*
143-726-18 Green 9x9 floor tile (on black mastic) / 12-Girl's Building-Room G8	*Not Analyzed*
143-726-19 Black mastic (from under sample #16) / 10-Girl's Building-Room G8	*19% Chrysotile Asbestos* *16% Non- Fibrous Particles* *65% Volatile on Ignition*
143-726-20 Black mastic (from under sample #17) / 11-Girl's Building-Room G8	*Not Analyzed*
143-726-21 Black mastic (from under sample #18) / 12-Girl's Building-Room G8	*Not Analyzed*
143-726-22 Brown brittle base molding adhesive () / 13-Girl's Building-Room G7	*No Asbestos Detected* *50% Non- Fibrous Particles* *3% Non- Asbestos Rods* *47% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 1/4/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
143-726-23 Brown brittle base molding adhesive () / 14-Girl's Building-Room G7	*No Asbestos Detected* *45% Non- Fibrous Particles* *2% Non- Asbestos Rods* *53% Volatile on Ignition*
143-726-24 Brown brittle base molding adhesive () / 15-Girl's Building-Room G7	*No Asbestos Detected* *43% Non- Fibrous Particles* *2% Non- Asbestos Rods* *55% Volatile on Ignition*
143-726-25 Black 12x12 floor tile (on brown mastic) / 16-Administration Building-Dining Room	*1-2% Chrysotile Asbestos* *70% Non- Fibrous Particles* *28% Volatile on Ignition*
143-726-26 Black 12x12 floor tile (on brown mastic) / 17-Administration Building-Dining Room	*Not Analyzed*
143-726-27 Black 12x12 floor tile (on brown mastic) / 18-Administration Building-Dining Room	*Not Analyzed*
143-726-28 Brown mastic (from under sample #25) / 16-Administration Building-Dining Room	*No Asbestos Detected* *20% Non- Fibrous Particles* *80% Volatile on Ignition*

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
1	Tan 9" Floor Tile						Asbestos PLM EPA 600	Admin Bldg A 151 / Please Analyze Both Tile & Mastic				
2								Admin Bldg A 151				
3												
4	Red-Brick Color 9" Floor Tile							Girls Building Room 67				
5												
6												
7	2x4' Suspended Ceiling Tile Type 2							Girls Building Room 67				
8								Girls Building Room 66				
9								Girls Building Room 613				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melatts	Delta			1	1-9	James R Melatts	G. Patricelli	1-4-01	
				2					
				3					
				4					

ADDITIONAL COMMENTS: Please use positive stop – Analyze at least one sample of each tile even if mastic is positive

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405

(203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify ___, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
10	Green 9" Floor Tile						Asbestos PLM EPA 600	Girls' Building Room G8				
11	↓							↓				
12	↓							↓				
13	Base molding Adhesive							Girls' Building Room G7				
14	↓							↓				
15	↓							↓				
16	Black 12" Floor Tile							Admin. Bldg Dining Room				
17	↓							↓				
18	↓							↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify ___

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME
James R Melanthis	Delta		

ADDITIONAL COMMENTS:

TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	~~ACCEPTED BY~~	DATE	TIME
1	10-18	James R Melanthis	G. Patucelli	1-4-01	
2					
3					
4					

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT - INSP/MGMT PLANNER

LICENSE NO.
000044
CURRENT THROUGH
02/28/01
VALIDATION NO.
00-321886

JAMES P. MCCARTHY

SIGNATURE

COMMISSIONER, DEPT. OF PUBLIC HEALTH

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

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BULK ASBESTOS FIBER ANALYSIS

March 31, 2002

Effective through

David F. Alderman

For the National Institute of Standards and Technology

NVLAP Lab Code: 101061-0

NVLAP-01C (11-95)

APPENDIX D

Building Diagrams

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
GIRLS' BUILDING (DPW Building 16946)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: November 2001

DELTA
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APPENDIX C - Laboratory and Inspector Accreditations

APPENDIX D - Building Diagrams

1.0 INTRODUCTION

This report summarizes the results of an asbestos and lead inspection conducted by DELTA Environmental Services, Inc. (DELTA) for the Girls' Building (DPW Building Number 16946) at the Mystic Education Center facility at 290 Oral School Road in Mystic, Connecticut. The project consisted of: review of available building records; physical inspection of the building to determine the quantities and locations of asbestos-containing materials (ACM); and bulk sampling of suspected asbestos-containing materials (ACM).

2.0 BUILDING DESCRIPTION

Mystic Education Center is a seven-building campus-type facility. The property consists of approximately 122 acres and 250,000 square feet of building floor space. The Girls' Building is one of the oldest buildings on the campus and was constructed in 1928. The building consists of: a kitchen area and storage rooms in the basement; offices on the first floor; vacant dormitory areas on the second floor and vacant office areas on the third floor. The building is heated via steam radiators.

3.0 ASBESTOS SURVEY

3.1 Asbestos Sampling Procedures

Bulk samples of suspected ACM were collected by James P. McCarthy, P.E., of DELTA, a Connecticut Department of Public Health licensed inspector. Samples were collected using a clean knife or other appropriate tool after first wetting the material to be sampled to limit fiber release.

Samples were placed in dedicated sealable plastic bags and promptly transmitted to the analytical laboratory using strict chain of custody procedures. Sampling was performed in accordance with Environmental Protection Agency protocols, which require a minimum of three negative results in order to establish that a material does not contain asbestos.

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
1	1217243	Brown Baseboard Molding Adhesive	Second Floor Corridor Near G205	NAD
2	1217244	Brown Baseboard Molding Adhesive	Second Floor Room G209	NAD
3	1217245	Brown Baseboard Molding Adhesive	Second Floor Room G209	NAD
4	1217246	Yellow Baseboard Molding Adhesive	Second Floor Room G210	NAD
5	1217247	Yellow Baseboard Molding Adhesive	Second Floor Room G210	NAD
6	1217248	Yellow Baseboard Molding Adhesive	Second Floor Room G210	NAD
7	1217249	Light Brown 12" Floor Tile with Dark Brown and White Streaks Mastic	Second Floor Room G209	1.3% Chrysotile (Point Count) NAD
8	1217250	Light Brown 12" Floor Tile with Dark Brown and White Streaks Mastic	Second Floor Room G209	Not Analyzed* NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
9	1217251	Light Brown 12" Floor Tile with Dark Brown and White Streaks Mastic	Second Floor Room G209	Not Analyzed* NAD
10	1217252	Sheetrock	Second Floor Day Room Southeast Corner	NAD
11	1217253	Joint Compound	Second Floor Day Room Southeast Corner	NAD
12	1217254	Sheetrock	Second Floor Room G205 Closet Wall	NAD
13	1217255	Joint Compound	Second Floor Room G205 Closet Wall	NAD
14	1217256	Sheetrock	Second Floor Corridor Near Room 210	NAD
15	1217257	Joint Compound	Second Floor Corridor Near Room 210	1.5% Chrysotile (Point Count)

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
16	1217258	Linoleum Mastic	Second Floor Room G216	NAD NAD
17	1217259	Linoleum Mastic	Second Floor Room G216	NAD NAD
18	1217260	Linoleum Mastic	Second Floor Room G216	NAD NAD
19	1217261	Skim Coat on Sheetrock	Third Floor Room G306	NAD
20	1217262	Skim Coat on Sheetrock	Third Floor Room G306	NAD
21	1217263	Skim Coat on Sheetrock	Third Floor Room G306	NAD
22	1217264	Sheetrock	Third Floor Room G306	NAD
23	1217265	Joint Compound	Third Floor Room G304	NAD
24	1217266	Sheetrock	Third Floor Room G304	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
25	1217267	Sheetrock	Third Floor Room G302	NAD
26	1217268	Joint Compound	Third Floor Room G302	NAD
27	142-666-39	Brown Linoleum	Room G106	NAD
28	142-666-40	Brown Linoleum	Room G106	NAD
29	142-666-41	Brown Linoleum	Room G106	NAD
30	142-666-42	Tan 12" Floor Tile	Room G106 (salient)	< 1% Chrysotile
	142-666-45	Yellow Mastic From Above		NAD
31	142-666-43	Tan 12" Floor Tile	Room G106 (salient)	< 1% Chrysotile
	142-666-46	Yellow Mastic From Above		NAD
32	142-666-44	Tan 12" Floor Tile	Room G106 (salient)	< 1% Chrysotile
	142-666-47	Yellow Mastic From Above		NAD
33	142-666-48	Wall Plaster Top Coat	First Floor Room G106	NAD
34	142-666-49	Wall Plaster Brown Coat		NAD
35	142-666-50	Wall Plaster Top Coat	First Floor Room G107	NAD
36	142-666-51	Wall Plaster Brown Coat		NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
37	142-666-52	Joint Compound	Room G107	NAD
38	142-666-53	Joint Compound	Room G107	NAD
39	142-666-54	Joint Compound	Room G107	NAD
40	142-666-55	Sheetrock Partition Wall	Room G107	NAD
41	142-666-56	Sheetrock Partition Wall	Room G107	NAD
42	142-666-57	Sheetrock Partition Wall	Room G107	NAD
43	142-666-58	Pipe Insulation	Kitchen Area Near G15 Above Ceiling	70% Chrysotile
44	142-666-59	Suspended Ceiling Tile 2' X 4' Type 1 - Dot & Groove Pattern	Kitchen Area Near G15 Above Ceiling	NAD
45	142-666-60	Suspended Ceiling Tile 2' X 4' Type 1 - Dot & Groove Pattern	Kitchen Area Near G15 Above Ceiling	NAD
46	142-666-61	Suspended Ceiling Tile 2' X 4' Type 1 - Dot & Groove Pattern	Kitchen Area Near G15 Above Ceiling	NAD
47	142-666-62	Wall Plaster Top Coat	Stairwell Landing to Basement Kitchen Area	NAD
48	142-666-63	Wall Plaster Brown Coat		NAD
55	142-666-72	Wall Plaster Top Coat	Second Floor Corridor	NAD
56	142-666-73	Wall Plaster Brown Coat		NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
57	142-666-74	Wall Plaster Top Coat	Basement Room G5	NAD
58	142-666-75	Wall Plaster Brown Coat		NAD
79	142-666-100	Ceiling Plaster Top Coat	First Floor Room G104	NAD
79	142-666-101	Ceiling Plaster Brown Coat		NAD
97	1217269	Cork/Bituminous Ceiling	Basement Cooler Room Between G9 and G10	6.5% Chrysotile (Point Count)
98	1217270	Cork/Bituminous Ceiling	Basement Cooler Room Between G9 and G10	Not Analyzed*
99	1217271	Cork/Bituminous Ceiling	Basement Cooler Room Between G9 and G10	Not Analyzed*
100	1217272	Concrete Wall	Basement Cooler Room Between G9 and G10	1.3% Chrysotile (Point Count)
101	1217273	Concrete Wall	Basement Cooler Room Between G9 and G10	Not Analyzed*
102	1217274	Concrete Wall	Basement Cooler Room Between G9 and G10	Not Analyzed*
103	1217275	Fitting on Fiberglass Pipe to Heat Exchanger	Old Boiler Room	NAD
104	1217276	Fitting on Fiberglass Pipe Below Cold Water Valve	Old Boiler Room	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
105	1217277	Fitting on Fiberglass Pipe to Hot Water Tank	Old Boiler Room	NAD
106	1217278	Hot Water Tank Insulation	Old Boiler Room	3.5% Chrysotile (Point Count)
107	1217279	Heat Exchanger Insulation	Old Boiler Room	30% Chrysotile
108	1217280	Beige 12" Floor Tile	Third Floor Room G304	0.25% Chrysotile (Point Count)
		Mastic		NAD
109	143-248-11	Wall Plaster Top Coat	First Floor Room G101 North Wall	NAD
110	143-248-12	Wall Plaster Brown Coat		NAD
111	143-248-13	Wall Plaster Top Coat	First Floor Room G101 Southeast Corner	NAD
112	143-248-14	Wall Plaster Brown Coat		NAD
113	143-248-15	Ceiling Plaster Top Coat	First Floor Room G103	NAD
114	143-248-16	Ceiling Plaster Brown Coat		NAD
115	143-248-17	Wall Plaster Top Coat	First Floor Room G110	NAD
116	143-248-18	Wall Plaster Brown Coat		NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
117	143-248-19	Wall Plaster Brown Coat	Basement Room Beneath G101 Near Wall	NAD
118	143-248-20	Wall Plaster Brown Coat	Basement Room Beneath G101 Far Wall	NAD
119	143-248-21	Wall Plaster Top Coat	Basement Room G7	NAD
120	143-248-22	Wall Plaster Brown Coat		NAD
121	143-248-23	Wall Plaster Top Coat	Basement Room G5	NAD
122	143-248-24	Wall Plaster Brown Coat		NAD
123	143-248-25	Wall Plaster Top Coat	Basement Room G8	NAD
124	143-248-26	Wall Plaster Brown Coat		NAD
125	143-248-27	Wall Plaster Top Coat	Second Floor Room G216	NAD
126	143-248-28	Wall Plaster Brown Coat		NAD
127	1184280	Ceiling Tile 12" Square	Copy Center	5.4% Amosite (Point Count)
128	1184281	Ceiling Tile 12" Square	Copy Center	Not Analyzed*
129	1184282	Ceiling Tile 12" Square	Copy Center	Not Analyzed*

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
130	1184283	Beige 12" Floor Tile Yellow Mastic From Above	Second Floor Room G215	NAD NAD
131	1184284	Beige 12" Floor Tile Yellow Mastic From Above	Second Floor Room G215	NAD NAD
132	1184285	Beige 12" Floor Tile Yellow Mastic From Above	Second Floor Room G215	NAD NAD
133	1184286	Tan 12" Floor Tile Yellow Mastic From Above	Second Floor Corridor	NAD NAD
134	1184287	Tan 12" Floor Tile Yellow Mastic From Above	Second Floor Corridor	NAD NAD
135	1184288	Tan 12" Floor Tile Yellow Mastic From Above	Second Floor Corridor	NAD NAD
148	1217315	Window Glazing	Exterior Wood Window	NAD
149	1217316	Window Glazing	Exterior Wood Window	NAD
150	1217317	Window Glazing	Exterior Wood Window	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
151	1217318	Window Caulk	Exterior Wood Window	1.3% Chrysotile (Point Count)
152	1217319	Window Caulk	Exterior Wood Window	Not Analyzed*
153	1217320	Window Caulk	Exterior Wood Window	Not Analyzed*
154	143-726-7	Red 9" Floor Tile with White Streaks	Basement Room G7	3% Chrysotile
	143-726-10	Mastic		14% Chrysotile
155	143-726-8	Red 9" Floor Tile with White Streaks	Basement Room G7	Not Analyzed*
	143-726-11	Mastic		Not Analyzed*
156	143-726-9	Red 9" Floor Tile with White Streaks	Basement Room G7	Not Analyzed*
	143-726-12	Mastic		Not Analyzed*
157	143-726-13	Suspended Ceiling Tile 2' X 4' Type 2 - Dot Pattern	Basement Room G7	14% Amosite
158	143-726-14	Suspended Ceiling Tile 2' X 4' Type 2 - Dot Pattern	Basement Room G8	Not Analyzed*
159	143-726-15	Suspended Ceiling Tile 2' X 4' Type 2 - Dot Pattern	Basement Room G13	Not Analyzed*

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
160	143-726-16	Green 9" Floor Tile	Basement Room G8	7% Chrysotile
	143-726-19	Mastic		19% Chrysotile
161	143-726-17	Green 9" Floor Tile	Basement Room G8	Not Analyzed*
	143-726-20	Mastic		Not Analyzed*
162	143-726-18	Green 9" Floor Tile	Basement Room G8	Not Analyzed*
	143-726-21	Mastic		Not Analyzed*
163	143-726-22	Brown Baseboard Molding Adhesive	Basement Room G7	NAD
164	143-726-23	Brown Baseboard Molding Adhesive	Basement Room G7	NAD
165	143-726-24	Brown Baseboard Molding Adhesive	Basement Room G7	NAD

NOTE: "NAD" INDICATES NO ASBESTOS DETECTED

* EPA protocols consider one positive result as confirmation that a material contains asbestos. If the first sample of a material is found to contain asbestos, no further confirmation is necessary and any additional samples are therefore not analyzed.

3.2 Asbestos Analytical Procedures

Analysis was performed by International Asbestos Testing Laboratories, Inc. (IATL), Mt. Laurel, New Jersey, and Chemscope, Inc., North Haven, Connecticut. Both laboratories are accredited by the National Institute of Standards and Technology accredited laboratory. Analysis was performed using Polarized Light Microscopy (PLM) Method EPA 600. Point counting was used to quantify asbestos content for all samples found to contain less than ten percent asbestos.

3.3 Asbestos Analytical Results

The results of recent bulk sampling performed by DELTA are summarized in Table 3-1. Laboratory data sheets are included in Appendix B.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: pipe and pipe fitting insulation, heat exchanger insulation and hot water tank insulation in the basement boiler room (Room G-11); pipe and pipe fitting insulation present throughout the basement; red 9" floor tile and mastic present in isolated areas of the basement; green 9" floor tile and mastic present in isolated areas of the basement and first floor; light brown 12" floor tile (the tile mastic does not contain asbestos) in rooms G-208 and G-209 on the second floor; 2' by 4' suspended ceiling tile present throughout much of the basement; 12" square ceiling tile present in Rooms 102 and 105 on the First Floor; a tar coating on cork ceiling lining in the basement cooler room between rooms G-9 and G-10; wall mortar material in the basement cooler room between rooms G-9 and G-10; sheetrock joint compound in portions of the second floor; and exterior window caulk.

The basement boiler room (the room provides heat for the Whipple Building) contains asbestos insulation on a heat exchanger and hot water tank. Asbestos-containing "aircell" type pipe insulation (four to six inches in diameter) is also present with asbestos-containing mudded fittings. Mudded fittings on fiberglass-insulated pipe runs in the boiler room were tested and found not to contain asbestos. The insulation in the boiler room is in poor to fair condition. Some asbestos insulation debris was noted on the floor at the far wall of the room.

TABLE 3-2: ASBESTOS-CONTAINING MATERIAL
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

HOMOGENEOUS AREA NUMBER	MATERIAL DESCRIPTION	LOCATION	ASBESTOS TYPE AND CONTENT (%)
1	Light Brown 12" Floor Tile with Dark Brown and White Streaks	Second Floor Room G209	1.3% Chrysotile
2	Joint Compound	Second Floor Partition and Room Closet Walls	1.5% Chrysotile
3	Pipe Insulation	Throughout	70% Chrysotile
4	Suspended Ceiling Tile - 2' X 4' Type 2 - Pinhole Pattern White Face with Gray Interior	Throughout Basement Except for Rooms G2, G3, G14, G15	14% Amosite
5	Acoustical Ceiling Tile - 1' X 1' (Homogeneous with Admin. Bldg. West Side of Second Fl. Corridor)	Copy Center, Room G102	5.4% Amosite
6	Red 9" Floor Tile	Basement Rooms G5, G7	3% Chrysotile
7	Mastic From Red 9" Floor Tile	Basement Rooms G5, G7	14% Chrysotile
8	Green 9" Floor Tile	Basement Rooms G1, G3, G4, G6, G8, G13, G14, G15, Basement Corridors, Stairwell Landings, Corridor to Admin. Building	7% Chrysotile

TABLE 3-2: ASBESTOS-CONTAINING MATERIAL GIRLS' BUILDING MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
9	Mastic From Green 9" Floor Tile	Basement Rooms G1, G3, G4, G6, G8, G13, G14, G15, Basement Corridors, Stairwell Landings, Corridor to Admin. Building	19% Chrysotile
10	Exterior Window Caulk	Throughout	1.3% Chrysotile
11	Cork/Bituminous Ceiling	Basement Cooler Room Between G9 and G10	6.5% Chrysotile
12	Concrete Wall	Basement Cooler Room Between G9 and G10	1.3% Chrysotile
13	Hot Water Tank Insulation	Basement Boiler Room G11	3.5% Chrysotile
14	Heat Exchanger Insulation	Basement Boiler Room G11	30% Chrysotile
NOTE: NAD indicates "No Asbestos Detected"			

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

HOMOGENEOUS AREA NUMBER	MATERIAL DESCRIPTION	LOCATION	ASBESTOS TYPE AND CONTENT (%)
15	Brown Linoleum	Throughout Most of Building	NAD
16	Tan "Granite Pattern" Linoleum	Second Floor Room G216	NAD
17	Tan 12" Floor Tile	Room G106, Second Floor Corridor and Second Floor Day Room	< 1% Chrysotile
18	Mastic From Tan 12" Floor Tile	Room G106, Second Floor Corridor	NAD
19	Beige 12" Floor Tile	Second Floor Rooms G200, G201, G202, G205, G207, G208, G210, G212 and Third Floor Rooms G302, G304	< 1% Chrysotile
20	Mastic From Beige 12" Floor Tile	Second Floor Bedrooms	NAD
21	Mastic From Light Brown 12" Floor Tile with Dark Brown and White Streaks	Second Floor Room G209	NAD
22	Brown Baseboard Molding Adhesive	Basement and Second Floor	NAD
23	Yellow Baseboard Molding Adhesive	Second Floor Room G210	NAD
24	Wall Plaster Top Coat	Throughout	NAD

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

25	Wall Plaster Brown Coat	Throughout	NAD
26	Ceiling Plaster Top Coat	Throughout	NAD
27	Ceiling Plaster Brown Coat	Throughout	NAD
28	Sheetrock	Room G107	NAD
29	Joint Compound	Room G107	NAD
30	Sheetrock	Second Floor Partition and Room Closet Walls	NAD
31	Sheetrock	Third Floor Offices	NAD
32	Joint Compound	Third Floor Offices	NAD
33	Skim Coat on Sheetrock	Third Floor Room G306	NAD
34	Suspended Ceiling Tile - 2' X 4' Type 1 - Dot and Groove Pattern White Face with Brown Interior	Basement Kitchen Area (Room G14), First and Second Floor Corridors	NAD
35	Glue Dots From Acoustical Ceiling Tile - 1' X 1' (Homogeneous with Admin. Bldg. West Side of Second Fl. Corridor)	Copy Center, Room G102	NAD

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL
GIRLS' BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

36	Exterior Window Glazing	Throughout	NAD
37	Mudded Fittings on Fiberglass Insulated Piping	Basement Boiler Room G11	NAD

NOTE: NAD indicates "No Asbestos Detected"

Asbestos-containing pipe insulation is present throughout the basement of the building, though it has been removed in some isolated areas. Rooms G-8 and G-14 have newer appearing fiberglass pipe insulation below the suspended ceilings, with both fiberglass and asbestos insulation above the ceilings. Room G-2 was reportedly abated as the result of a steam pipe leak.

It appears that the asbestos-containing thermal systems insulation in the basement should be assigned a moderate level of priority for abatement, due to its impact on future building maintenance activities.

The various types of vinyl floor tile in the building were found to contain between 1.3 and 7% chrysotile asbestos. Mastic from the 9" tile was also found to contain asbestos, at concentrations ranging from 14 to 19% chrysotile. Mastic from the 12" asbestos tile on the second floor does not contain asbestos. Floor tile is generally in poor to fair condition in the basement, with loose tiles in several spots. Tile on the upper floors is generally in good condition. Though the floor tile in the building is unlikely to present a hazard unless it is actively disturbed, any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile (and mastic if applicable) as asbestos.

One type of 2' by 4' suspended ceiling tile present throughout much of the basement was found to contain 14% amosite asbestos. A type of 1' square ceiling tile (glued to the ceiling and walls) present in Rooms 102 and 105 on the first floor was found to contain 5% amosite asbestos. It appears that these materials should be assigned a moderate level of priority for abatement, due to their impact on future building maintenance activities. Specifically, the 2' X 4' suspended tile should not be disturbed given the potential for release of asbestos fibers.

A tar coating (on cork ceiling lining) and wall mortar in the basement cooler room between rooms G-9 and G-10 were found to contain asbestos; these materials are nonfriable and unlikely to present an asbestos hazard unless actively disturbed.

Sheetrock joint compound in portions of the second floor was found to contain 2% chrysotile asbestos. The sheetrock is damaged in a few spot areas; it is recommended that these areas be abated.

Exterior window caulking material was found to contain 1.3% chrysotile asbestos. Window glazing was found not to contain asbestos. The caulking material is hard and is nonfriable. The caulking is unlikely to release asbestos fibers under normal conditions, but would have to be addressed if the windows are replaced.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

4.0 DISCUSSION AND RECOMMENDATIONS

The Girls' Building is one of the oldest buildings on the campus and was constructed in 1928. The building consists of: a kitchen area and storage rooms in the basement; offices on the first floor; dormitory areas (currently vacant) on the second floor and vacant office areas on the third floor. The building is heated via steam radiators.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: pipe and pipe fitting insulation, heat exchanger insulation and hot water tank insulation in the basement boiler room (Room G-11); pipe and pipe fitting insulation present throughout the basement; red 9" floor tile and mastic present in isolated areas of the basement; green 9" floor tile and mastic present in isolated areas of the basement and first floor; light brown 12" floor tile (the tile mastic does not contain asbestos) in rooms G-208 and G-209 on the second floor; 2' by 4' suspended ceiling tile present throughout much of the basement; 12" square ceiling tile present in Rooms 102 and 105 on the First Floor; a tar coating on cork ceiling lining in the basement cooler room between rooms G-9 and G-10; wall mortar material in the basement cooler room between rooms G-9 and G-10; and sheetrock joint compound in portions of the second floor.

The basement boiler room contains asbestos insulation on a heat exchanger and hot water tank. Asbestos-containing "aircell" type pipe insulation is also present with asbestos-containing mudded fittings. Mudded fittings on fiberglass-insulated pipe runs in the boiler room were tested and found not to contain asbestos. The insulation in the boiler room is in poor to fair condition. Some asbestos insulation debris was noted on the floor at the far wall of the room. Asbestos-containing pipe insulation is present throughout the basement of the building, though it has been removed in some isolated areas. It appears that the asbestos-containing thermal systems insulation in the basement should be assigned a moderate level of priority for abatement, due to its impact on future building maintenance activities.

Asbestos-containing floor tile is generally in poor to fair condition in the basement, with loose tiles in several spots. Tile on the upper floors is generally in good condition. Though the floor tile in the building is unlikely to present a hazard unless it is actively disturbed, any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile (and mastic if applicable) as asbestos.

One type of 2' by 4' suspended ceiling tile present throughout much of the basement was found to contain 14% amosite asbestos. A type of 1' square ceiling tile (glued to the ceiling and walls) present in Rooms 102 and 105 on the first floor was found to contain 5% amosite asbestos. It appears that these materials should be assigned a moderate level of priority for abatement, due to their impact on building maintenance activities. Specifically, the 2' X 4' suspended tile should not be disturbed given the potential for release of asbestos fibers.

A tar coating (on cork ceiling lining) and wall mortar in the basement cooler room between rooms G-9 and G-10 were found to contain asbestos; these materials are nonfriable and unlikely to present an asbestos hazard unless actively disturbed.

Sheetrock joint compound in portions of the second floor was found to contain 2% chrysotile asbestos. The sheetrock is damaged in a few spot areas; it is recommended that these areas be abated.

Exterior window caulking material was found to contain 1.3% chrysotile asbestos. Window glazing was found not to contain asbestos. The caulking material is hard and is nonfriable. The caulking is unlikely to release asbestos fibers under normal conditions, but would have to be addressed if the windows are replaced.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

5.0 ESTIMATED COST FOR ASBESTOS ABATEMENT

The estimated cost for asbestos abatement shown in Table 5-1 is provided solely for establishing removal and replacement costs for the DPW asbestos inventory database. The abatement estimate utilizes fixed unit costs for specific item descriptions. Abatement projects are to be estimated with respect to individual project requirements or conditions.

The estimated cost for abatement of the building (including thermal systems reinsulation) is $121,000. It should be noted that the cost estimate does not include removal of roofing materials. The cost estimate utilizes standard unit prices for removal of different types of asbestos-containing materials. When an actual asbestos abatement project is planned, a more precise estimate can be developed based on the specific work scope.

6.0. LIMITATIONS

The survey has the following limitations:

- DELTA's survey included an evaluation for the presence of asbestos-containing insulation on electrical equipment in the building. The inspection included building wiring, whips and fixtures. No suspect insulation was found. The inspection was designed to cover a representative portion of the building, since it was not feasible to examine all fixtures, junction boxes, etc.

- The survey did not utilize "destructive" sampling methods, and therefore may not have identified all of the asbestos-containing materials in the building. Specifically, the inspection did not include areas enclosed by walls or ceilings, unless these spaces could be accessed without damage.

- The survey did not include destructive sampling of furnishings such as chalkboards, corkboards, fire doors and benchtops.

- The survey attempted to access and identify asbestos-containing materials associated with HVAC and mechanical systems. However, such systems were not dismantled during the inspection. It is possible that boilers, furnaces, fan units and other devices may contain gaskets and other interior asbestos material which can only be accessed through dismantling them. Care should be taken to avoid the accidental disturbance of asbestos during maintenance or repair work.

TABLE 5-1

GIRLS' BUILDING
MYSTIC EDUCATION CENTER
ASBESTOS ABATEMENT COST ESTIMATE

Item Description	Quantity	Unit	Unit Cost	Subtotal Cost
REMOVAL				
Thermal System Insulation	214	SF	$10.00	$2,140
Thermal System Insulation	873	LF	$15.00	$13,095
Surfacing Material	240	SF	$12.50	$3,000
Misc. Material	11,690	SF	$5.00	$58,450
SUB TOTAL REMOVAL				$76,685
REPLACEMENT				
Thermal System Insulation	214	SF	$10.00	$2,140
Thermal System Insulation	873	LF	$15.00	$13,095
Surfacing Material		SF	$10.00	$0,00
Miscellaneous Material		LF	N/A	
Miscellaneous Material		SF	N/A	
SUB TOTAL REPLACEMENT				$15,235
Construction				$91,920
Consultant (20%)				$18,384
Contingency (10%)				$11,030
TOTAL				$121,334
ABATEMENT ESTIMATE				**$121,000**

APPENDIX A

Inventory of Identified Asbestos-Containing Material

GIRLS' BUILDING
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
BASEMENT													
	PIPE TUNNEL TO ADMIN												
G1		8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	150								
G1		3	PIPE/FITTING INSULATION	70%				25	10				
G1		4	2' X 4' SUSPENDED CEILING TILE	14%		150							
G2													ROOM PREVIOUSLY ABATED
G3		8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	120								
G3.		3	PIPE/FITTING INSULATION	70%				20	2				
G4	BATHROOM	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	120								
G4	BATHROOM	3	PIPE/FITTING INSULATION	70%				15	5				
G4	BATHROOM	4	2' X 4' SUSPENDED CEILING TILE	14%		120							
G1 - G4	CORRIDOR	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	70								
G1 - G4	CORRIDOR	3	PIPE/FITTING INSULATION	70%				6	1				
G1 - G4	CORRIDOR	4	2' X 4' SUSPENDED CEILING TILE	14%		70							
G5		6	9" RED FLOOR TILE/MASTIC	3% / 14%	400								
G5		3	PIPE/FITTING INSULATION	70%				50	10				
G5		4	2' X 4' SUSPENDED CEILING TILE	14%		400							
G6	BATHROOM	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	150								
G6	BATHROOM	3	PIPE/FITTING INSULATION	70%				20	6				
G6	BATHROOM	4	2' X 4' SUSPENDED CEILING TILE	14%									
G7		6	9" RED FLOOR TILE/MASTIC	3% / 14%	700								
G7		3	PIPE/FITTING INSULATION	70%				65	5				
G7		4	2' X 4' SUSPENDED CEILING TILE	14%		700							
G7 - G8	CORRIDOR	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	50								
G7 - G8	CORRIDOR	3	PIPE/FITTING INSULATION	70%				12	2				
G7 - G8	CORRIDOR	4	2' X 4' SUSPENDED CEILING TILE	14%		50							
G9 - G12	CORRIDOR	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	120								
G8		8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	400								
G8		3	PIPE/FITTING INSULATION	70%				100	8				
G8		4	2' X 4' SUSPENDED CEILING TILE	14%		400							
G9		8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	100								
COOLER ROOM	BET. G9 AND G10	11	CORK CEILING LINING WITH TAR COATING	7%		40							
COOLER ROOM	BET. G9 AND G10	12	CONCRETE WALL LINING	1.3%			200						
G10		8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	100								
G11	BOILER RM. FOR WHIPPLE	3	PIPE/FITTING INSULATION					100	12				SOME INSUL. IS FIBERGLASS
G11	BOILER RM. FOR WHIPPLE	14	HEAT EXCHANGER INSULATION	30%							30		ASB. DEBRIS ON FLOOR
G11	BOILER RM. FOR WHIPPLE	13	HOT WATER TANK INSULATION	4%							60		ASB. DEBRIS ON FLOOR

GIRLS' BUILDING
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
G12		8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	100								
G13		8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	350								
G13		3	PIPE/FITTING INSULATION	70%				20	1				MOST OF PIPE INSUL. IS FIBERGLASS
G13		4	2' X 4' SUSPENDED CEILING TILE	14%		350							
G14	KITCHEN	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	1500								
G14	KITCHEN	3	PIPE/FITTING INSULATION	70%				400	50				MOST OF PIPE INSUL. IS FIBERGLASS
G15	LAUNDRY	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	300								FLOOR TILE IS IN POOR CONDITION
G15	LAUNDRY	3	PIPE/FITTING INSULATION	70%				40	12				
	BASEMENT LANDING	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	100								
BASE/1ST	INT. LANDING	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	60								
FIRST FL.													
	CORRIDOR TO ADMIN.	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	300								
G101													
G102	OFFICE	5	1' X 1' CEILING TILE	5%		900							TILE IS PRESENT ON WALLS AND CEILING
G103	BATHROOM												
G104													
G105	COPY CENTER	5	1' X 1' CEILING TILE	5%		100							TILE IS PRESENT ON WALLS AND CEILING
G106	AUDITORIUM												
G107	FORMER CLASSROOM												
	CORRIDOR												

GIRLS' BUILDING
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
SECOND FL.													
G200	MAIL ROOM												
G201	BEDROOM												
G202	BEDROOM												
G203	BATHROOM												
G204	BATHROOM												DAMAGE AT CLOSET WALL
G205	BEDROOM	2	SHEETROCK JOINT COMPOUND	2%			110						
CORRIDOR	ALONG ROOM 205	2	SHEETROCK JOINT COMPOUND	2%			70						ALL WALLS
G207	BEDROOM	2	SHEETROCK JOINT COMPOUND	2%			600						SOUTH AND WEST WALLS
G208	BEDROOM	2	SHEETROCK JOINT COMPOUND	2%			280						ACM TILE IS IN CLOSET ONLY
G208	BEDROOM	1	12" LIGHT BROWN FLOOR TILE	1.3%	10								SOUTH AND EAST WALLS
G209	BEDROOM	2	SHEETROCK JOINT COMPOUND	2%			280						
G209	BEDROOM	1	12" LIGHT BROWN FLOOR TILE	1.3%	270								ALL WALLS
G210	BEDROOM	2	SHEETROCK JOINT COMPOUND	2%			600						4 SF DAMAGED; HOLE PUNCHED IN WALL
CORRIDOR	ALONG ROOMS 207-210	2	SHEETROCK JOINT COMPOUND	2%			500						CLOSET WALL AND CORRIDOR WALL
G211	BEDROOM	2	SHEETROCK JOINT COMPOUND	2%			110						NORTH WALL ONLY
DAY ROOM	DAYROOM	2	SHEETROCK JOINT COMPOUND	2%			350						
CORRIDOR	ALONG ROOM 211	2	SHEETROCK JOINT COMPOUND	2%			70						
CORRIDOR	STAIRWELL NEAR 211	2	SHEETROCK JOINT COMPOUND	2%			70						
G212	BEDROOM												
G213	MEDICATION ROOM												
G213A	CLOSET												
G214	BATHROOM												
G215	BEDROOM												
CLOSET	NEAR G215												
CORRIDOR	MAIN CORRIDOR												
G216	BEDROOM												

GIRLS' BUILDING
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
THIRD FL.													
G301	OFFICE												
G302	OFFICE												
G303	OFFICE												
G304	OFFICE												
G305	OFFICE												
G306	OFFICE												
G307	OFFICE												
G308	OFFICE												
G309	OFFICE												
G310	BATHROOM												
	CUSTODIAN CLOSET												
G311	OFFICE												
STAIRWELLS													
EAST	BASEMENT LANDING	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	100								
	INT. BETWEEN BASE/FIRST	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	60								
WEST	BASEMENT LANDING	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	100								
	INT. BETWEEN BASE/FIRST	8	9" GREEN FLOOR TILE/MASTIC	7% / 19%	60								

APPENDIX B

Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-35 Gray mastic (from under sample #32) / 23-Basement Cafeteria	*No Asbestos Detected* *42% Non- Fibrous Particles* *58% Volatile on Ignition*
142-666-36 Gray mastic (from under sample #33) / 24-Basement Cafeteria	*No Asbestos Detected* *18% Non- Fibrous Particles* *82% Volatile on Ignition*
142-666-37 Gray mastic (from under sample #34) / 25-Basement Cafeteria	*No Asbestos Detected* *31% Non- Fibrous Particles* *69% Volatile on Ignition*
142-666-38 Beige crumbly molding adhesive with a brown undercoating () / 26-Basement Cafeteria	*No Asbestos Detected* *83% Non- Fibrous Particles* *17% Volatile on Ignition*
142-666-39 Brown hard flooring material on brown woven material () / 27-Girl's Building G106	*No Asbestos Detected* *33% Non- Fibrous Particles* *67% Volatile on Ignition*
142-666-40 Brown hard flooring material on brown woven material () / 28-Girl's Building G106	*No Asbestos Detected* *28% Non- Fibrous Particles* *72% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-41 Brown hard flooring material on brown woven material () / 29-Girl's Building G106	*No Asbestos Detected* *23% Non- Fibrous Particles* *77% Volatile on Ignition*
142-666-42 Hard tan 12x12 floor tile (on yellow mastic) / 30-Salient Area G106	*<1% Chrysotile Asbestos* *81% Non- Fibrous Particles* *19% Volatile on Ignition*
142-666-43 Hard tan 12x12 floor tile (on yellow mastic) / 31-Salient Area G106	*<1% Chrysotile Asbestos* *82% Non- Fibrous Particles* *18% Volatile on Ignition*
142-666-44 Hard tan 12x12 floor tile (on yellow mastic) / 32-Salient Area G106	*<1% Chrysotile Asbestos* *81% Non- Fibrous Particles* *19% Volatile on Ignition*
142-666-45 Yellow mastic (from under sample #42) / 30-Salient Area G106	*No Asbestos Detected* *64% Non- Fibrous Particles* *36% Volatile on Ignition*
142-666-46 Yellow mastic (from under sample #43) / 31-Salient Area G106	*No Asbestos Detected* *72% Non- Fibrous Particles* *28% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-47 Yellow mastic (from under sample #44) / 32-Salient Area G106	*No Asbestos Detected* *63% Non- Fibrous Particles* *37% Volatile on Ignition*
142-666-48 White hard plaster layer (on light gray granular plaster layer) / 33-Salient Area G106	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-49 Light gray granular plaster layer (from under sample #48) / 34-Salient Area G106	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
142-666-50 White hard plaster layer (on light gray granular plaster layer) / 35-G107	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-51 Light gray granular plaster layer (from under sample #50) / 36-Salient Area G106	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
142-666-52 White crumbly joint compound with a light blue face () / 37-G107	*No Asbestos Detected* *100% Non- Fibrous Particles*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-53 White crumbly joint compound with a light blue face () / 38-G107	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-54 White crumbly joint compound with a light blue face () / 39-G107	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-55 Gray crumbly sheetrock with brown fibrous paper layers and a light blue face () / 40-G107	*No Asbestos Detected* *65% Non- Fibrous Particles* *20% Cellulose* *15% Fiberglass*
142-666-56 Gray crumbly sheetrock with brown fibrous paper layers and a light blue face () / 41-G107	*No Asbestos Detected* *65% Non- Fibrous Particles* *20% Cellulose* *15% Fiberglass*
142-666-57 Gray crumbly sheetrock with brown fibrous paper layers and a light blue face () / 42-G107	*No Asbestos Detected* *65% Non- Fibrous Particles* *20% Cellulose* *15% Fiberglass*
142-666-58 Gray fibrous pipe insulation with a brown coating () / 43-Kitchen Area Near G15 Above Ceiling	*70% Chrysotile Asbestos* *10% Non- Fibrous Particles* *20% Cellulose*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-59 Gray fibrous 2x4 suspended ceiling tile () / 44-Kitchen Area Near G15 Above Ceiling	*No Asbestos Detected* *10% Non- Fibrous Particles* *40% Cellulose* *50% Mineral Wool*
142-666-60 Gray fibrous 2x4 suspended ceiling tile () / 45-Kitchen Area Near G15 Above Ceiling	*No Asbestos Detected* *10% Non- Fibrous Particles* *40% Cellulose* *50% Mineral Wool*
142-666-61 Gray fibrous 2x4 suspended ceiling tile () / 46-Kitchen Area Near G15 Above Ceiling	*No Asbestos Detected* *10% Non- Fibrous Particles* *40% Cellulose* *50% Mineral Wool*
142-666-62 White hard plaster layer (on gray granular plaster layer) / 47-Stairwell Landing to Basement Kitchen Area	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-63 Gray granular plaster layer (from under sample #62) / 48-Stairwell Landing to Basement Kitchen Area	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
142-666-64 Light brown hard 9x9 floor tile (on brown and black mastic) / 49-Wipple Corridor #1 Near Dining Room	*Not Analyzed*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-71 Black mastic (from under gray 9x9 floor tile) / 54-Wipple Room 165	*Not Analyzed*
142-666-72 White hard plaster layer (on light gray granular plaster layer) / 55-Girl's Building Second Floor Corridor	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-73 Light gray granular plaster layer (from under sample #72) / 56-Girl's Building Second Floor Corridor	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*
142-666-74 White hard plaster layer (on light gray granular plaster layer) / 57-Girl's Building Basement	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-75 Light gray granular plaster layer (from under sample #74) / 58-Girl's Building Basement	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*
142-666-76 White hard plaster layer (on light gray granular plaster layer) / 59-Administration Building Stairs to Basement Near A-B	*No Asbestos Detected* *100% Non- Fibrous Particles*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-95 Light gray granular plaster layer (from under sample #94) / 74-Administration Building Corridor Near A252 Second Floor-West Side	*2% Amosite Asbestos* *88% Non- Fibrous Particles* *10% Mineral Wool* *<1% Cellulose* *<1% Horse Hair*
142-666-96 Tan fibrous 12x12 large pinhole ceiling tile with a white face () / 75-Administration Building Corridor Second Floor-East Side	*No Asbestos Detected* *2% Non- Fibrous Particles* *98% Cellulose*
142-666-97 Tan fibrous 12x12 large pinhole ceiling tile with a white face () / 76-Administration Building Corridor Second Floor-East Side	*No Asbestos Detected* *2% Non- Fibrous Particles* *98% Cellulose*
142-666-98 Tan fibrous 12x12 large pinhole ceiling tile with a white face () / 77-Administration Building Corridor Second Floor-East Side	*No Asbestos Detected* *2% Non- Fibrous Particles* *98% Cellulose*
142-666-99 Brown hard glue dab (from under 12x12 ceilign tile) / 78-Administration Building Corridor Second Floor-East Side	*No Asbestos Detected* *48% Non- Fibrous Particles* *52% Volatile on Ignition*
142-666-100 White hard plaster layer (on light gray granular plaster layer) / 79-G104	*No Asbestos Detected* *100% Non- Fibrous Particles*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-101 Light gray granular plaster layer (from under sample #100) / 79-G104	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*
142-666-102 Light gray crumbly pipe fitting (on fiberglass insulation) / 80-Whipple Corridor Above Ceiling Near 156	*No Asbestos Detected* *55% Non- Fibrous Particles* *45% Mineral Wool* *<1% Cellulose*
142-666-103 Light gray crumbly pipe fitting (on fiberglass insulation) / 81-Whipple Corridor Above Ceiling Near 156	*No Asbestos Detected* *55% Non- Fibrous Particles* *45% Mineral Wool* *<1% Cellulose*
142-666-104 Light gray crumbly pipe fitting (on fiberglass insulation) / 82-Whipple Corridor Above Ceiling Near 156	*No Asbestos Detected* *55% Non- Fibrous Particles* *45% Mineral Wool* *<1% Cellulose*
142-666-105 Hard gray 9x9 floor tile with black dot pattern (on black mastic) / 83-Whipple Corridor Connecting Passage	*3% Chrysotile Asbestos* *72% Non- Fibrous Particles* *25% Volatile on Ignition*
142-666-106 Hard gray 9x9 floor tile with black dot pattern (on black mastic) / 84-Whipple Corridor Connecting Passage	*Not Analyzed*

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405
(203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: P 97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
25	White 12" Floor Tile w/ Green Stream							Basement, Cafeteria				
26	Molding Adhesive							↓				
27	Brown Linoleum						No Asbestos Detected	Girl's Building G106				
28	↓						↓	↓				
29	↓							G106 (Salient Area)				
30	Tan 12" Floor Tile							↓				
31	↓							↓				
32	↓							↓				
33	Wall Sealer Top Coat						No Asbestos Detected	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Palucell	4-19-00	1:00pm
				2					
				3					
				4					

ADDITIONAL COMMENTS:

DELIA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405

(203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: P97-148-24

SOURCE CODES: W = Well; SG = Sludge; X = Other; Specify ____; O = Outfall; S = Soil; WO = Waste Oil; R = River/Stream; RO = Run Off; LF = Landfill; B = Bottom Sediment; WW = Wastewater; SW = Sewage; L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
34	Wall plaster Brown coat						No Asbestos Detected	G106				
35	Wall plaster top coat						↓	G107				
36	Wall plaster Brown coat							↓				
37	Joint Compound partition wall											
38	↓											
39												
40	Sheetrock partition wall											
41	↓											
42												

Container Codes: P = Plastic; E = EPA VIAL; G = Glass; A = Amber Glass; B = Bacteria Bottle
Preservative Codes: I = Iced; F = Filtered; N = Nitric Acid (HNO_3); H = Hydrochloric Acid (HCl); S= Sodium Hydroxide (NaOH); T = Sodium Thiosulfate; F = Sulfuric Acid; O = Other; Specify ____

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patucatt	9-19-00	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405

(203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
43	Pipe Insulation							Kitchen Area near Gas above ceiling				
44	2 x 4 suspended ceiling tile											
45												
46												
47	Wall plaster top coat						No Asbestos	Stairwell leading to Bakery Kitchen Area				
48	Wall plaster Brown coat						No Asbestos					
49	Light Brown 9" Floor Tile						Not Analyzed.	Wheele Corridor No. 1 near Dining Rm				
50	Mastic from Light Brown 9" Floor Tile						1% Chrysotile Asbestos					
51	Gray 9" Floor Tile						Not Analyzed	Room 165 Wheele				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Thiosulfate (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patterson	9-19-00	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
52	Gray 9" Floor Tile							Room 165 Whipple				
53	↓							↓				
54	Mastic From Gray 9" Floor Tile						8% Chrysotile Asbestos	↓				
55	Wall Plaster Top Coat							Girls' Building 2nd Floor Corridor				
56	Wall Plaster Brown Coat							↓				
57	Wall Plaster Top Coat						No Asbestos	Girls' Building Basement				
58	Wall Plaster Brown Coat						No Asbestos	↓				
59	Wall Plaster Top Coat						No Asbestos	Admin. Bldg. Stairs to Basement Near A-B				
60	Wall Plaster Brown Coat						No Asbestos	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patucelli	9-19-00	1:00p
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
61	Ceiling Tile 2'x4' suspended							Landing near A-8 (Admin. Bldg)				
62	↓							↓				
63	↓							↓				
64	Ceiling Cement/ Skim Coat							Room A238				
65	↓							↓				
66	↓							↓				
67	Wall Plaster Top Coat							↓				
68	Wall Plaster Brown Coat							↓				
69	Wall Plaster Brown Coat						White-No Asbestos Lt gray-No Asbestos	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Palucelli	9-19-00	1:00pm
				2					
				3					
				4					

ADDITIONAL COMMENTS:

DELTA Environmental Services, Inc.

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-140-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
70	12" x 12" Ceiling Tile + Type 1	Glue Dot					15% Amosite Asbestos	Admin. Bldg Corridor Near A252 2nd Floor - West side				
71	↓							↓				
72	↓							↓				
73	Ceiling Plaster Top Coat						No Asbestos.	↓				
74	Ceiling Plaster Brown Coat						2% Amosite Asbestos	↓				
75	12" x 12" Ceiling Tile Large Pinhole						No Asbestos.	Admin Bldg Corridor 2nd Floor - East side				
76	↓							↓				
77	↓							↓				
78	Glue Dot from 12" x 12" Ceiling Tile							↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Palucitt	2/19/00	1:00 p
ADDITIONAL COMMENTS:				2					
				3					
				4					

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D 97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
79	Ceiling plaster both layers							G 104				
80	Pipe fitting on fiberglass insulation						No Asbestos Detected.	Whipple corridor above ceiling near 156				
81	↓							↓				
82	↓							↓				
83	Tan 9" Dot pattern Floor Tile						3% Chrysotile Asbestos	Whipple corridor connecting passage				
84	↓							↓				
85	↓							↓				
86	Light brown 9" Floor Tile	[illegible]						Whipple corridor near Exit				
87	↓							↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

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				1			G. Patricelli	9-19-00	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217243 **Material Description:** Dk.Brown Mastic
Client No.: 1 **Location:** 2nd Floor Corridor Near 205

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100

Lab No. 1217244 **Material Description:** Dk.Brown Mastic
Client No.: 2 **Location:** Room 209

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100

Lab No. 1217245 **Material Description:** Dk.Brown Mastic
Client No.: 3 **Location:** Room 209

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100

Lab No. 1217246 **Material Description:** Yellow Mastic
Client No.: 4 **Location:** Room 210

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: MUHAMMAD T. MIRZA

Date: JAN 31 2001

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217247 **Material Description:** Yellow Mastic
Client No.: 5 **Location:** Room 210

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100

Lab No. 1217248 **Material Description:** Yellow Mastic
Client No.: 6 **Location:** Room 210

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100

Lab No. 1217249 **Material Description:** Tan/Dk.BrownFlr.Tile
Client No.: 7 **Location:** Yellow Mastic Room 209

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.3	Chrysotile	None Detected	None Detected	PC 98.7

Lab No. 1217249 **Material Description:** Tan/Dk.BrownFlr.Tile
Client No.: 7 **Location:** Yellow Mastic Room 209

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100

Yellow Mastic
From Above

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: MUHAMMAD T. MIRZA

Date: JAN 31 2001

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217250 **Material Description:** Yellow Mastic
Client No.: 8 **Location:** Room 209

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100

Floor Tile

Not Analyzed

Lab No. 1217251 **Material Description:** Yellow Mastic
Client No.: 9 **Location:** Room 209

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100

Floor Tile

Not Analyzed

Lab No. 1217252 **Material Description:** Tan/Off-White
Client No.: 10 **Location:** Sheetrock 2nd Floor; Dayroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	10	Fibrous Glass	60
		30	Cellulose	

Lab No. 1217253 **Material Description:** White Joint Compound
Client No.: 11 **Location:** 2nd Floor; Dayroom S.E. Corner

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: MUHAMMAD T. MIRZA

Date: JAN 3 1 2001

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217254 **Material Description:** Tan Sheetrock
Client No.: 12 **Location:** Room 205; Closet

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	10	Cellulose	80
		10	Fibrous Glass	

Lab No. 1217255 **Material Description:** White Joint Compound
Client No.: 13 **Location:** Room 205; Closet

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1217256 **Material Description:** Tan/Off-White Sheetrock
Client No.: 14 **Location:** Corridor; Near 210

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	10	Cellulose	90

Lab No. 1217257 **Material Description:** Off-WhiteJt.Compound
Client No.: 15 **Location:** Corridor; Near 210

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.5	Chrysotile	None Detected	None Detected	PC 98.5

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: MUHAMMAD T. MIRZA

Date: JAN 6 2001

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217258 **Material Description:** Lt.Tan Linoleum
Client No.: 16 **Location:** Yellow Mastic Room 216

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	15	Cellulose	75
		5	Fibrous Glass	
		5	Synthetic	

Lab No. 1217258 **Material Description:** Lt.Tan Linoleum
Client No.: 16 **Location:** Yellow Mastic Room 216

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100
Yellow Mastic				
From Above				

Lab No. 1217259 **Material Description:** Lt.Tan Linoleum
Client No.: 17 **Location:** Yellow Mastic Room 216

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	15	Cellulose	75
		5	Fibrous Glass	
		5	Synthetic	

Lab No. 1217259 **Material Description:** Lt.Tan Linoleum
Client No.: 17 **Location:** Yellow Mastic Room 216

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100
Yellow Mastic				
From Above				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: MUHAMMAD T. MIRZA

Date: JAN

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217260 **Material Description:** Lt.Tan Linoleum
Client No.: 18 **Location:** Yellow Mastic Room 216

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	15	Cellulose	75
		5	Fibrous Glass	
		5	Synthetic	

Lab No. 1217260 **Material Description:** Lt.Tan Linoleum
Client No.: 18 **Location:** Yellow Mastic Room 216

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100
Yellow Mastic				
From Above				

* **Lab No.** 1217261 **Material Description:** White Joint Compound
Client No.: 19 **Location:** Room 306

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

* **Lab No.** 1217262 **Material Description:** White Joint Compound
Client No.: 20 **Location:** Room 306

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: MUHAMMAD T. MIRZA

Date: JAN 2 1 2001

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

* **Lab No.** 1217263 **Material Description:** White Joint Compound
Client No.: 21 **Location:** Room 306

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1217264 **Material Description:** Tan Sheetrock
Client No.: 22 **Location:** Room 306

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	5	Fibrous Glass	70
No Joint Compound		25	Cellulose	

* **Lab No.** 1217265 **Material Description:** Tan Sheetrock
Client No.: 23 **Location:** Room 304

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	5	Fibrous Glass	75
No Joint Compound		20	Cellulose	

* **Lab No.** 1217266 **Material Description:** White Joint Compound
Client No.: 24 **Location:** Room 304

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

* Different material than indicated on Sample Log/Description.

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: MUHAMMAD T. MIRZA

Date: JAN 31 2001

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217267 **Material Description:** Tan Sheetrock
Client No.: 25 **Location:** Room 302

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	5	Fibrous Glass	65
No Joint Compound		30	Cellulose	

Lab No. 1217268 **Material Description:** White Joint Compound
Client No.: 26 **Location:** Room 302

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1217269 **Material Description:** Black Tar
Client No.: 97 **Location:** Basement Cooler Room Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 6.5	Chrysotile	3	Cellulose	PC 90.5

Lab No. 1217270 **Material Description:** Sample Not Analyzed
Client No.: 98 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: MUHAMMAD T. MIRZA

Date: JA[illegible] [illegible]01

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217271 **Material Description:** Sample Not Analyzed
Client No.: 99 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1217272 **Material Description:** Lt.Grey Concrete
Client No.: 100 **Location:** Basement Cooler Room Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.3	Chrysotile	None Detected	None Detected	PC 98.7

Lab No. 1217273 **Material Description:** Sample Not Analyzed
Client No.: 101 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1217274 **Material Description:** Sample Not Analyzed
Client No.: 102 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: MUHAMMAD T. MIRZA

Date: [illegible]

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217275 **Material Description:** Grey Insulation
Client No.: 103 **Location:** Heat Exchanger Old Boiler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Mineral Wool	70

Lab No. 1217276 **Material Description:** Grey Insulation
Client No.: 104 **Location:** Below Cold Water Shut Off Valve

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Mineral Wool	70

Lab No. 1217277 **Material Description:** Grey Insulation
Client No.: 105 **Location:** Hot Water Tank Old Boiler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Mineral Wool	70

Lab No. 1217278 **Material Description:** Grey Insulation
Client No.: 106 **Location:** Old Boiler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.5	Chrysotile	30	Mineral Wool	PC 66.5

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: MUHAMMAD T. MIRZA

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

Date:

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217279 **Material Description:** Off-White/Lt.Grey
Client No.: 107 **Location:** Insulation Old Boiler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
30	Chrysotile	10	Mineral Wool	60

Lab No. 1217280 **Material Description:** OffWhite/GreyFlrTile
Client No.: 108 **Location:** Yellow Mastic Room 304

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.25	Chrysotile	None Detected	None Detected	PC 99.75

Lab No. 1217280 **Material Description:** OffWhite/GreyFlrTile
Client No.: 108 **Location:** Yellow Mastic Room 304

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100
Yellow Mastic				
From Above				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: MUHAMMAD T. MIRZA

Date: JAN 31

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories
16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 609.231.9449 Fax: 609.231.9818

972/8

- Chain of Custody -

Client: Delta Environmental Services
P.O. Box 564
Branford, CT 06405

Project Name: Mystic Education Center
Project No.: D97-148-24

Phone: (203) 481-7668
FAX: (203) 488-8164

Contact: Jim McCarthy
Pager:

Special Instructions:

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[✓] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

- [ ] PCM : NIOSH 7400
- [ ] PCM : OSHA
- [ ] PCM : Other_____
- [ ] AAS : NIOSH 7082 (Air)
- [ ] AAS : Lead in Drinking Water
- [ ] AAS : Lead in Paint ASTM D3335-85a
- [ ] AAS : Lead Dust/Wipe
- [ ] AAS : Other Metals / Soil_____
- [✓] PLM : Bulk Asbestos EPA 600
- [ ] PLM : Point Counting 198.1
- [ ] PLM : NOB via 198.1 (PLM only)
- [ ] If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements ** (**call to confirm TAT!)
- [ ] TEM : AHERA
- [ ] TEM : NIOSH 7402
- [ ] TEM : EPA Level II
- [ ] TEM : Microvac Dust
- [ ] TEM : Asbestos in Water
- [ ] TEM : Bulk Analysis
- [ ] TEM : NOB 198.4
- [ ] TEM : Other_____
- [ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ (date / time) Verbals: _____ (date / time)

[ ] 10 Day [ ] 5 Day [✓] 72 hour [ ] 48 hour [ ] 24 hour [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): _____ (start) - _____ (end) IATL#(s): _____ (start) - _____ (end) Total: ___

Chain of Custody:

Relinquished:	[signature]	Date: 1/24/01	Time: 3:00pm
Received:		Date:	Time:
Sample Log-in:	01/29 1830	Date:	Time:
Sample Prep:		Date:	Time:
Analyzed:	MM	Date: 1/31/01	Time:
QA/QC Review:	JAN 26 2001	Date: 02/08/01	Time:

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405

(203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Girl's Building

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify ___, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
1	Brown Baseboard Molding Adhesive	1	217	243			Asbestos PLM EPA 600 positive stop	2nd Floor Corridor Near 205				
2	↓	1	217	244			↓	Room 209				
3	↓	1	217	245			↓	Room 209				
4	Yellow Baseboard Molding Adhesive	1	217	246			positive stop	Room 210				
5	↓	1	217	247			↓	↓				
6	↓	1	217	248			↓	↓				
7	Light Brown 12" Floor Tile w/ Dark Brown & white streaks	1	217	249			positive stop	Room 209				
8	↓	1	217	250			↓	↓				
9	↓	1	217	251			↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify ___

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
10	Sheetrock	12	17	252			Asbestos PCM EPA 600	2nd Floor Daycare SE Corner				
11	Joint Compound	12	17	253				↓				
12	Sheetrock	12	17	254				Room 205 Closet				
13	Joint Compound	12	17	255				↓				
14	Sheetrock	12	17	256				Corridor Near 210				
15	Joint Compound	12	17	257				↓				
16	Tan/white Linoleum	12	17	258			Positive Stop	Room 216				
17	↓	12	17	259			↓	↓				
18	↓	12	17	260								

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Malatha	Delta			1		James R Malatha			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405

(203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
19	Skim Coat on Sheetrock	12	17	261			Asbestos PLM EPA 600 positive stop	Room 306				
20	↓	12	17	262			↓	↓				
21	↓	12	17	263			↓	↓				
22	Sheetrock	12	17	264				Room 306				
23	Joint Compound	12	17	265				Room 304				
24	Sheetrock	12	17	266				↓				
25	↓	12	17	267				Room 302				
26	Joint Compound	12	17	268				Room 302				
97	Cork/Bituminous Coating	12	17	269				Basement Cooler Room Ceiling				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify ____, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
98	Cork/Bituminous Coating				1217270		Asbestos PLM EPA 600	Basement Cooker Room Ceiling				
99	↓				1217271		↓	↓				
100	Concrete Wall				1217272		positive stop					
101	↓				1217273		↓	↓				
102	↓				1217274		↓	↓				
103	Fitting on Fiberglass Piping				1217275		positive stop	Heat Exchanger Old Boiler Room				
104	↓				1217276		↓	Below Cold Water Shutoff Valve				
105	↓				1217277		↓	Hot Water Tank Old Boiler Room				
106	Hot Water Tank Insul.				1217278			Old Boiler Room				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify ____

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Malatto	Delta			1		James R Malatto			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405

(203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
107	Heat Exchanger Insulation				12	7279	Asbestos PLM EPA 600	Old Boiler Room				
108	Beige 12" Floor Tile				121	7280		Room 304				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

Bulk sample(s) from Mystic Educational Center, Mystic CT received from customer on 11/15/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
143-248-11 White hard plaster top coat with a blue face (wall) / 109-G101-North Wall	*No Asbestos Detected* *100% Non- Fibrous Particles*
143-248-12 Gray granular plaster layer (wall) / 110-G101-North Wall	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*
143-248-13 White hard plaster top coat with a blue face (wall) / 111-G101-Southeast Corner	*No Asbestos Detected* *100% Non- Fibrous Particles*
143-248-14 Brown granular plaster layer (wall) / 112-G101-Southeast Corner	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose*
143-248-15 White hard plaster top coat (ceiling) / 113-G103	*No Asbestos Detected* *100% Non- Fibrous Particles*
143-248-16 Gray granular plaster layer (ceiling) / 114-G103	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose*

Bulk sample(s) from Mystic Educational Center, Mystic CT received from customer on 11/15/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
143-248-17 White hard plaster top coat with a gray face and a tan undercoat (wall) / 115-G110	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Synthetic Fibers*
143-248-18 Gray granular plaster layer (wall) / 116-G110	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
143-248-19 Gray granular plaster layer (wall) / 117-Girls'd Building-Room Below G101-Near Wall	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
143-248-20 Gray granular plaster layer (wall) / 118-Girls'd Building-Room Below G101-Near Wall	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
143-248-21 White hard plaster top coat with an off-white face (wall) / 119-Room G7	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose*
143-248-22 Gray granular plaster layer (wall) / 120-Room G7	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*

Bulk sample(s) from Mystic Educational Center, Mystic CT received from customer on 11/15/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
143-248-23 Pale gray hard plaster top coat with an off-white face (wall) / 121-Room G5	*No Asbestos Detected* *100% Non- Fibrous Particles*
143-248-24 Gray granular plaster layer (wall) / 122-Room G5	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
143-248-25 White hard plaster top coat with a beige face (wall) / 123-Room G8	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose*
143-248-26 Gray granular plaster layer (wall) / 124-Room G8	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*
143-248-27 White hard plaster top coat with an off-white face (wall) / 125-Room G216	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose*
143-248-28 Brown granular plaster layer (wall) / 126-Room G216	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose*

Bulk sample(s) from Mystic Educational Center, Mystic CT received from customer on 11/15/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification **Findings**

AIHA Bulk Asbestos Proficiency Analytical Testing (PAT) Program. PAT Proficient Lab #100134
Accreditation by the National Institute of Standards and Technology/National Voluntary Lab Accreditation Program (NVLAP) does not imply endorsement by this Federal Agency.
This report pertains only to the samples tested and may not be reproduced in part.
The scope of Accreditation referenced in this report pertains to bulk asbestos analysis by PLM.
Connecticut Approved Environmental Lab PH 0581
See test parameters on reverse side of this report.

Signature (if applicable)	Signature (if applicable)	*Authorized Signature:* or	*Authorized Signature:*
Analyst	Inspector	*Ronald D. Arena* *Director*	*Suzanne Cristante* *QA Coordinator*

NVLAP ACCREDITED LAB# 101061-0

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Educational Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
108	Ceiling. Both Plaster Layers							3rd Floor Corridor Admin Bldg Opposite A328				
109	Wall Plaster Top Coat						PLEASE USE SAMPLES POSITIVE STOP 109-126 No Asbestos Detected	G101 - North Wall				
110	Wall Plaster Brown Coat						No Asbestos Detected	↓				
111	Wall Plaster Top Coat							G101 - SE Corner				
112	Wall Plaster Brown Coat							↓				
113	Ceiling Plaster Top Coat							G 103				
114	Ceiling Plaster Brown Coat							↓				
115	Wall Plaster Top Coat							G 110				
116	Wall Plaster Brown Coat						↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			B. Patricelli	11-15-00	9:53am
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Educational Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
117	Wall Plaster Brown Coat						PLEASE USE SAMPLES POSITIVE FOR 109-126 No Asbestos Detected	Girls' Bldg Room Below G101 Near wall				
118	↓						No Asbestos Detected	↓ Far wall				
119	Wall Plaster Top Coat							Room G7				
120	Wall Plaster Brown Coat							↓				
121	Wall Plaster Top Coat							Room G5				
122	Wall Plaster Brown Coat							↓				
123	Wall Plaster Top Coat							Room G2				
124	Wall Plaster Brown Coat							↓				
125	Wall Plaster Top Coat						↓	Room G216				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Pollutt	11-15-00	9:53am
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELIA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well; O = Outfall; WO = Waste Oil; RO = Run Off; B = Bottom Sediment; SW = Sewage; SG = Sludge; S = Soil; R = River/Stream; LF = Landfill; WW = Wastewater; L = Lake/Ocean; X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
426	Well Cluster Boom Court							Room G216				

Container Codes: P = Plastic; E = EPA VIAL; G = Glass; A = Amber Glass; B = Bacteria Bottle

Preservative Codes: I = Iced; F = Filtered; N = Nitric Acid (HNO_3); H = Hydrochloric Acid (HCl); S= Sodium Hydroxide (NaOH); T = Sodium Thiosulfate; F = Sulfuric Acid; O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patrick	11-15-00	9:53am
ADDITIONAL COMMENTS:				2					
				3					
				4					

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 11/24/2000
Project: Mystic Education Center, 11-14-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1184278 **Material Description:** Brown Floor Tile
Client No.: 97 **Location:** Basement Maintenance Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC Trace	Chrysotile	None Detected	None Detected	100

No Mastic

Lab No. 1184279 **Material Description:** Black Mastic
Client No.: 98 **Location:** Basement Maintenance Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1184280 **Material Description:** White Ceiling Tile
Client No.: 127 **Location:** Girls Bldg. Copy Center

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 5.4	Amosite	70	Fibrous Glass	PC 24.6

Lab No. 1184281 **Material Description:** Sample Not Analyzed
Client No.: 128 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Robert Grohmann

Date:

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 11/22/2000
Project: Mystic Education Center, 11-14-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1184282 **Material Description:** Sample Not Analyzed
Client No.: 129 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1184283 **Material Description:** Off-White Floor Tile
Client No.: 130 **Location:** Yellow Mastic G215

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1184283 **Material Description:** Off-White Floor Tile
Client No.: 130 **Location:** Yellow Mastic G215

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected Yellow Mastic From Above	None Detected	None Detected	None Detected	100

Lab No. 1184284 **Material Description:** Off-White Floor Tile
Client No.: 131 **Location:** Yellow Mastic G210

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: [signature]

Date: 2000 ... Grohmann

Approved By: [signature]

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 11/22/2000
Project: Mystic Education Center, 11-14-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1184284 **Material Description:** Off-White Floor Tile
Client No.: 131 **Location:** Yellow Mastic G210

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Yellow Mastic				
From Above				

Lab No. 1184285 **Material Description:** Off-White Floor Tile
Client No.: 132 **Location:** Yellow Mastic G207

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1184285 **Material Description:** Off-White Floor Tile
Client No.: 132 **Location:** Yellow Mastic G207

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Yellow Mastic				
From Above				

Lab No. 1184286 **Material Description:** Tan Floor Tile
Client No.: 133 **Location:** Yellow Mastic 2nd Floor Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Robert Grohmann

Date:

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 11/22/2000
Project: Mystic Education Center, 11-14-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1184286 **Material Description:** Tan Floor Tile
Client No.: 133 **Location:** Yellow Mastic 2nd Floor Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Yellow Mastic				
From Above				

Lab No. 1184287 **Material Description:** Tan Floor Tile
Client No.: 134 **Location:** Yellow Mastic 2nd Floor Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1184287 **Material Description:** Tan Floor Tile
Client No.: 134 **Location:** Yellow Mastic 2nd Floor Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Yellow Mastic				
From Above				

Lab No. 1184288 **Material Description:** Tan Floor Tile
Client No.: 135 **Location:** Yellow Mastic 2nd Floor Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: [illegible]

Date: [illegible] 2000

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 11/22/2000
Project: Mystic Education Center, 11-14-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1184288
Client No.: 135

Material Description: Tan Floor Tile
Location: Yellow Mastic 2nd Floor Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Yellow Mastic				
From Above				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By:

Date: 2000 Albert Gr...

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

972/8

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08034
Telephone: 609.231.9449 Fax: 609.231.9818

- Chain of Custody -

Client: Delta Environmental Services
P.O. Box 564
Branford, CT 06405

Project Name: Mystic Education Center
Project No.: Mystic, CT
D97-148-24

Phone: (203) 481-7668
FAX: (203) 488-8164

Contact: Jim McCarthy
Pager:

Special Instructions:

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[✓] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400
[ ] PCM : OSHA
[ ] PCM : Other_____

[ ] AAS : NIOSH 7082 (Air)
[ ] AAS : Lead in Drinking Water
[ ] AAS : Lead in Paint ASTM D3335-85a
[ ] AAS : Lead Dust/Wipe
[ ] AAS : Other Metals / Soil_____

[✓] PLM : Bulk Asbestos EPA 600
[ ] PLM : Point Counting 198.1
[ ] PLM : NOB via 198.1 (PLM only)
[ ] If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements **
(**call to confirm TAT!)

[ ] TEM : AHERA
[ ] TEM : NIOSH 7402
[ ] TEM : EPA Level II
[ ] TEM : Microvac Dust
[ ] TEM : Asbestos in Water
[ ] TEM : Bulk Analysis
[ ] TEM : NOB 198.4
[ ] TEM : Other_____
[ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ date / time Verbals: _____ date / time

[ ] 10 Day [ ] 5 Day [✓] 72 hour [ ] 48 hour [ ] 24 hour [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

97 - 98

Client #(s): 127 (start) - 135 (end) IATL#(s): _____ (start) - _____ (end) Total: ___

Chain of Custody:

Relinquished:	Jane R McArthur	Date: 11/14/00	Time: 4:00 PM
Received:	bmw	Date: NOV 18	Time:
Sample Log-in:	bmw	Date:	Time:
Sample Prep:		Date:	Time:
Analyzed:	[signature]	Date: 11/22/00	Time:
QA/QC Review:	[signature]	Date: 11/24/00	Time:

Archived/Released:_____ QA/QC InterLAB Use:_____ Date:_____ Time:_____

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
97	Brown 9" Floor Tile						1184278	Basement Maintenance Shop				
98	Mastic From Above						1184279	↓				
127	12" Ceiling Tile						1184280 please use positive stop	Girls' Bldg. Copy center				
128	↓						1184281	↓				
129	↓						1184282	↓				
130	12" Beige Floor Tile						1184283 please use positive stop	G 215				
131	↓						1184284	G 210				
132	↓						1184285	G 207				
133	12" Brown/Tan Floor Tile						1184286 please use positive stop with #134 135	2nd Floor Corridor				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

NOV 18

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1					
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
134	12" Brown/Tan Floor Tile						1184287 Please use positive stop	2nd Floor Corridor				
135	↓						1184288 ↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1					
ADDITIONAL COMMENTS:				2					
				3					
				4					

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217315 **Material Description:** White Glazing
Client No.: 148 **Location:** Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1217316 **Material Description:** White Glazing
Client No.: 149 **Location:** Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1217317 **Material Description:** White Glazing
Client No.: 150 **Location:** Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1217318 **Material Description:** Yellow Caulk
Client No.: 151 **Location:** Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.3	Chrysotile	None Detected	None Detected	PC 98.7

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Graciela Manjarres N.

Approved By: Frank Ehrenfeld

Date: JAN 31 2001

Graciela Manjarres N., AIHA-AAP

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Girl's Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217319
Client No.: 152
Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1217320
Client No.: 153
Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Graciela Manjarres N.

Date: JAN 31 2001 Graciela Manjarres N., AIHA-AAP

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405

(203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Girls' Building

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
148	Window Glazing				1217315		Asbestos PLM EPA 600 / PLEASE USE POSITIVE STOP					
149	↓				1217316		↓					
150	↓				1217317		↓					
151	Window Caulk				1217318		PLEASE USE POSITIVE STOP					
152	↓				1217319		↓					
153	↓				1217320		↓					

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melatto	Delta			1		James R Melatto			
				2					
				3					
				4		[illegible]		1/31/2001	

ADDITIONAL COMMENTS: Lab 1/30 1540

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 1/4/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
143-726-5 Orange mastic (from under sample #2) / 2-Administrative Building A151	*No Asbestos Detected* *39% Non- Fibrous Particles* *61% Volatile on Ignition*
143-726-6 Orange mastic (from under sample #3) / 3-Administrative Building A151	*No Asbestos Detected* *30% Non- Fibrous Particles* *70% Volatile on Ignition*
143-726-7 Red 9x9 floor tile with white streaks (on black mastic) / 4-Girl's Building-Room G7	*3% Chrysotile Asbestos* *71% Non- Fibrous Particles* *26% Volatile on Ignition*
143-726-8 Red 9x9 floor tile with white streaks (on black mastic) / 5-Girl's Building-Room G7	*Not Analyzed*
143-726-9 Red 9x9 floor tile with white streaks (on black mastic) / 6-Girl's Building-Room G7	*Not Analyzed*
143-726-10 Black mastic (from under sample #4) / 4-Girl's Building-Room G7	*14% Chrysotile Asbestos* *22% Non- Fibrous Particles* *64% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 1/4/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
143-726-11 Black mastic (from under sample #5) / 5-Girl's Building-Room G7	*Not Analyzed*
143-726-12 Black mastic (from under sample #6) / 6-Girl's Building-Room G7	*Not Analyzed*
143-726-13 Light gray fibrous 2x4 suspended ceiling tile with a white face (Type 2) / 7-Girl's Building-Room G7	*14% Amosite Asbestos* *14% Non- Fibrous Particles* *65% Mineral Wool* *7% Volatile on Ignition*
143-726-14 Light gray fibrous 2x4 suspended ceiling tile with a white face (Type 2) / 8-Girl's Building-Room G8	*Not Analyzed*
143-726-15 Light gray fibrous 2x4 suspended ceiling tile with a white face (Type 2) / 9-Girl's Building-Room G13	*Not Analyzed*
143-726-16 Green 9x9 floor tile (on black mastic) / 10-Girl's Building-Room G8	*7% Chrysotile Asbestos* *66% Non- Fibrous Particles* *27% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 1/4/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
143-726-17 Green 9x9 floor tile (on black mastic) / 11-Girl's Building-Room G8	*Not Analyzed*
143-726-18 Green 9x9 floor tile (on black mastic) / 12-Girl's Building-Room G8	*Not Analyzed*
143-726-19 Black mastic (from under sample #16) / 10-Girl's Building-Room G8	*19% Chrysotile Asbestos* *16% Non- Fibrous Particles* *65% Volatile on Ignition*
143-726-20 Black mastic (from under sample #17) / 11-Girl's Building-Room G8	*Not Analyzed*
143-726-21 Black mastic (from under sample #18) / 12-Girl's Building-Room G8	*Not Analyzed*
143-726-22 Brown brittle base molding adhesive () / 13-Girl's Building-Room G7	*No Asbestos Detected* *50% Non- Fibrous Particles* *3% Non- Asbestos Rods* *47% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 1/4/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
143-726-23 Brown brittle base molding adhesive () / 14-Girl's Building-Room G7	*No Asbestos Detected* *45% Non- Fibrous Particles* *2% Non- Asbestos Rods* *53% Volatile on Ignition*
143-726-24 Brown brittle base molding adhesive () / 15-Girl's Building-Room G7	*No Asbestos Detected* *43% Non- Fibrous Particles* *2% Non- Asbestos Rods* *55% Volatile on Ignition*
143-726-25 Black 12x12 floor tile (on brown mastic) / 16-Administration Building-Dining Room	*1-2% Chrysotile Asbestos* *70% Non- Fibrous Particles* *28% Volatile on Ignition*
143-726-26 Black 12x12 floor tile (on brown mastic) / 17-Administration Building-Dining Room	*Not Analyzed*
143-726-27 Black 12x12 floor tile (on brown mastic) / 18-Administration Building-Dining Room	*Not Analyzed*
143-726-28 Brown mastic (from under sample #25) / 16-Administration Building-Dining Room	*No Asbestos Detected* *20% Non- Fibrous Particles* *80% Volatile on Ignition*

DELTA Environmental Services,® Inc.

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
1	Tan 9" Floor Tile						Asbestos PLM EPA 600 Admin Bldg A 151	Please Analyze Both Tile & Mastic b				
2								Admin Bldg A 151				
3												
4	Red-Brick Color 9" Floor Tile							Girls' Building Room G7				
5												
6												
7	2x4 Suspended Ceiling Tile Type 2							Girls' Building Room G7				
8								Girls' Building Room G8				
9								Girls' Building Room G13				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME
James R Melanthe	Delta		

ADDITIONAL COMMENTS: Please use positive stop - Analyze at least one sample of each tile even if mastic is positive

TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
1	1-9	James R Melanthe	G. Patricelli	1-4-01	
2					
3					
4					

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

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PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
10	Green 9" Floor Tile						Asbestos PLM EPA 600	Girls' Building Room G8				
11	↓							↓				
12	↓							↓				
13	Base Molding Adhesive							Girls' Building Room G7				
14	↓							↓				
15	↓							↓				
16	Black 12" Floor Tile							Admin. Bldg Dining Room				
17	↓							↓				
18	↓							↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	~~ACCEPTED BY~~	DATE	TIME
James R Melanthi	Delta			1	10-18	James R Melanthi	G. Patricelli	1-4-01	
ADDITIONAL COMMENTS:				2					
				3					
				4					

APPENDIX C

Laboratory and Inspector Accreditations

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT - INSP/MGMT PLANNER

LICENSE NO.
000044
CURRENT THROUGH
02/28/01
VALIDATION NO.
00-321886

JAMES P. MCCARTHY

SIGNATURE

COMMISSIONER, DEPT. OF PUBLIC HEALTH

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

CHEMSCOPE, INC.
NORTH HAVEN, CT

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

BULK ASBESTOS FIBER ANALYSIS

March 31, 2002
Effective through

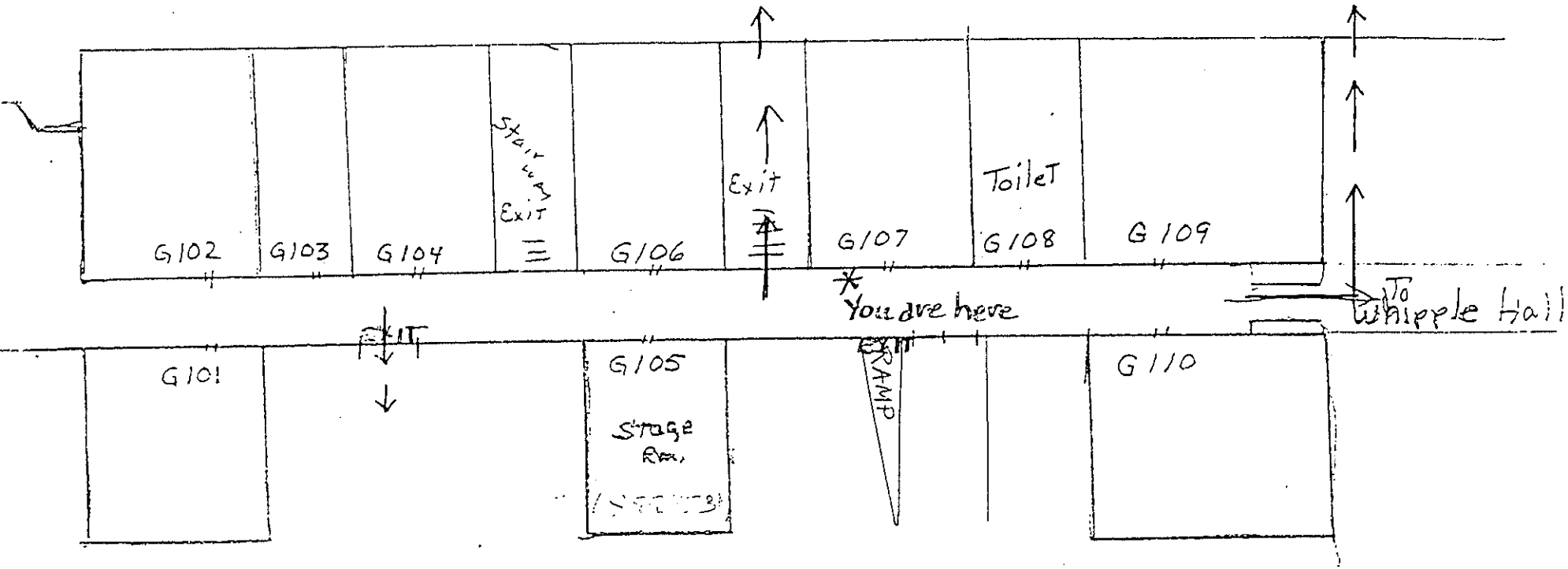
David F. Alderman
For the National Institute of Standards and Technology

NVLAP Lab Code: 101061-0

NVLAP-01C (11-95)

APPENDIX D

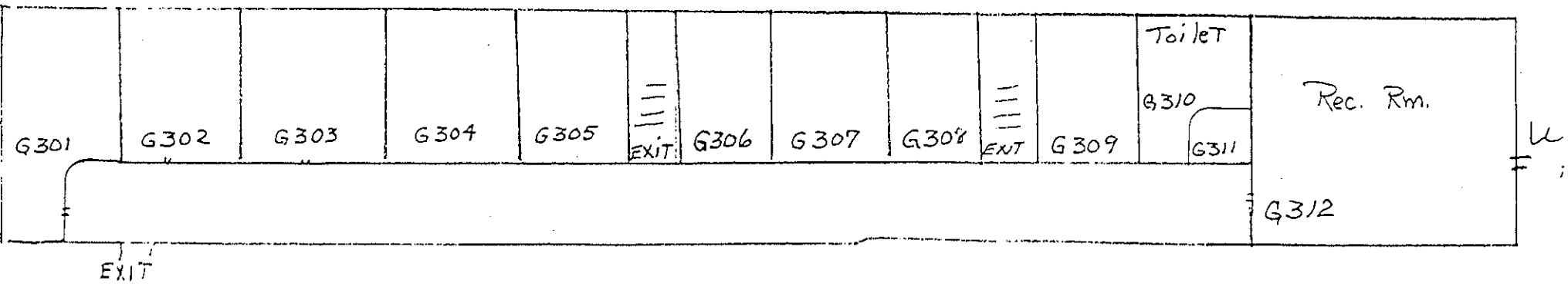
Building Diagrams



← East

1st floor

(USE OTHER EXITS IF PRIMARY ROUTE BLOCKED.)



← EAST 3RD FLOOR GIRLS

- DRAFT -

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
WHIPPLE BUILDING (DPW Building 16947)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: March, 2001

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3-2 Asbestos-Containing Material

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APPENDIX A - Inventory of Identified Asbestos-Containing Material

APPENDIX B - Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

APPENDIX C - Laboratory and Inspector Accreditations

APPENDIX D - Building Diagrams

1.0 INTRODUCTION

This report summarizes the results of an asbestos and lead inspection conducted by DELTA Environmental Services, Inc. (DELTA) for the Whipple Building (DPW Building Number 16947) at the Mystic Education Center facility at 290 Oral School Road in Mystic, Connecticut. The project consisted of: review of available building records; physical inspection of the building to determine the quantities and locations of asbestos-containing materials (ACM); and bulk sampling of suspected asbestos-containing materials (ACM).

2.0 BUILDING DESCRIPTION

Mystic Education Center is a seven-building campus-type facility. The property consists of approximately 122 acres and 250,000 square feet of building floor space. The Whipple Building is a two-story (with full basement) 24,500± square foot structure. The building was constructed in 1968. The building consists of: offices, classrooms and storage areas in the basement; classrooms, offices and a cafeteria on the first floor; and dormitory rooms on the second floor. The building is heated by a forced hot air system. The building is served by the boiler room in the basement of the Girls' Building. A mechanical attic with air handling equipment is present in the building, accessible by a hatch in the third floor ceiling. Room numbers referred to in this report correspond to the building diagrams in Appendix D.

3.0 ASBESTOS SURVEY

3.1 Asbestos Sampling Procedures

Bulk samples of suspected ACM were collected by James P. McCarthy, P.E., of DELTA, a Connecticut Department of Public Health licensed inspector. Samples were collected using a clean knife or other appropriate tool after first wetting the material to be sampled to limit fiber release.

Samples were placed in dedicated sealable plastic bags and promptly transmitted to the analytical laboratory using strict chain of custody procedures. Sampling was performed in accordance with Environmental Protection Agency protocols, which require a minimum of three negative results in order to establish that a material does not contain asbestos.

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
49	142-666-64	Light Brown 9" Floor Tile	Corridor No. 1 Near Dining Room	Not Analyzed*
50	142-666-65	Mastic From Light Brown 9" Floor Tile	Corridor No. 1 Near Dining Room	11% Chrysotile
51	142-666-66 142-666-69	Gray 9" Floor Tile Mastic From Above	Room 165	Not Analyzed* 8% Chrysotile
52	142-666-67 142-666-70	Gray 9" Floor Tile Mastic From Above	Room 165	Not Analyzed* Not Analyzed*
53	142-666-68	Gray 9" Floor Tile	Room 165	Not Analyzed*
54	142-666-71	Mastic From Gray 9" Floor Tile	Room 165	Not Analyzed*
55	1248505	Tan Dot Pattern 9" Floor Tile	Room 201 Connecting Passage	1.50% Chrysotile (Point Count)
56	1248506	Mastic From Tan Dot Pattern 9" Floor Tile	Room 201 Connecting Passage	NAD
57	1248507	Brown 9" Floor Tile	Room 240	3.0% Chrysotile (Point Count)
58	1248508	Brown 9" Floor Tile	Room 240	Not Analyzed*
59	1248509	Brown 9" Floor Tile	Room 233	Not Analyzed*

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
60	1248510	White Dot Pattern 9" Floor Tile	Ground Floor Landing Stairwell 2	2.50% Chrysotile (Point Count)
61	1248511	White Dot Pattern 9" Floor Tile	Ground Floor Landing Stairwell 2	Not Analyzed*
62	1248512	White Dot Pattern 9" Floor Tile	Ground Floor Landing Stairwell 2	Not Analyzed*
63	1248513	White with Brown Specks 9" Floor Tile	Second Floor Landing Stairwell 1	1.50% Chrysotile (Point Count)
64	1248514	Mastic From White with Brown Specks 9" Floor Tile	Second Floor Landing Stairwell 1	10% Chrysotile
80	142-666-102	Cementitious Fitting on Fiberglass Insulated Piping	Corridor Above Susp. Ceiling Near Room 156	NAD
81	142-666-103	Cementitious Fitting on Fiberglass Insulated Piping	Corridor Above Susp. Ceiling Near Room 156	NAD
82	142-666-104	Cementitious Fitting on Fiberglass Insulated Piping	Corridor Above Susp. Ceiling Near Room 156	NAD
83	142-666-105 142-666-108	Tan 9" Dot Pattern Floor Tile Mastic From Above	Corridor Connecting Passage 201	3% Chrysotile NAD
84	142-666-106 142-666-109	Tan 9" Dot Pattern Floor Tile Mastic From Above	Corridor Connecting Passage 201	Not Analyzed* NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
85	142-666-107	Tan 9" Dot Pattern Floor Tile	Corridor Connecting Passage 201	Not Analyzed*
	142-666-110	Mastic From Above		NAD
86	142-666-111	Light Brown 9" Floor Tile	Corridor Near Exit	Not Analyzed*
	142-666-113	Mastic From Above		14% Chrysotile
87	142-666-112	Light Brown 9" Floor Tile	Corridor Near Exit	Not Analyzed*
	142-666-114	Mastic From Above		Not Analyzed*
88	142-666-115	Green 9" Floor Tile	Dining Room 151	Not Analyzed*
	142-666-118	Mastic From Above		12% Chrysotile
89	142-666-116	Green 9" Floor Tile	Dining Room 151	Not Analyzed*
	142-666-119	Mastic From Above		Not Analyzed*
90	142-666-117	Green 9" Floor Tile	Dining Room 151	Not Analyzed*
	142-666-120	Mastic From Above		Not Analyzed*
91	142-666-121	Beige 9" Floor Tile	Dining Room 151	Not Analyzed*
	142-666-124	Mastic From Above		17% Chrysotile

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
92	142-666-122 142-666-125	Beige 9" Floor Tile Mastic From Above	Dining Room 151	Not Analyzed* Not Analyzed*
93	142-666-123 142-666-126	Beige 9" Floor Tile Mastic From Above	Dining Room 151	Not Analyzed* Not Analyzed*
94	142-666-127	Suspended Ceiling Tile 2' X 2' Type 3 Brown Layered Texture Groove Pattern	Ground Floor Corridor No. 1	NAD
95	142-666-128	Suspended Ceiling Tile 2' X 2' Type 3 Brown Layered Texture Groove Pattern	Ground Floor Corridor No. 1	NAD
96	142-666-129	Suspended Ceiling Tile 2' X 2' Type 3 Brown Layered Texture Groove Pattern	Ground Floor Corridor No. 2	NAD
97	1217300	Gray 9" Floor Tile Mastic	Basement Room 23	1.25% Chrysotile (Point Count) 8.25% Chrysotile (Point Count)

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
98	1217301	Beige 12" Floor Tile Mastic	Basement Room 120	NAD 3.50% Chrysotile (Point Count)
99	1217302	Beige 12" Floor Tile Mastic	Basement Room 120	NAD Not Analyzed*
100	1217303	Beige 12" Floor Tile Mastic	Basement Room 120	NAD Not Analyzed*
101	1217304	Glue Dot from Corkboard	Basement Room 120	1.50% Chrysotile (Point Count)
102	1217305	Glue Dot from Corkboard	Basement Room 120	Not Analyzed*
103	1217306	Glue Dot from Corkboard	Basement Room 120	Not Analyzed*
104	1217307	Light Brown 9" Floor Tile Mastic	Corridor Near Room 154	1.75% Chrysotile (Point Count) 10% Chrysotile

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
105	1217308	Green 9" Floor Tile Mastic	Dining Room 155	3.25% Chrysotile (Point Count) 10% Chrysotile
106	1217309	Suspended Ceiling Tile 2' X 4' Brown Interior	Dining Room 155	NAD
107	1217310	Light Brown 9" Floor Tile Mastic	Basement Corridor Near Room 22	2.5% Chrysotile (Point Count) NAD
108	1217311	Beige 9" Floor Tile Mastic	Basement Closet Room 24	3.0% Chrysotile (Point Count) 4.5% Chrysotile (Point Count)
109	1217312	Suspended Ceiling Tile 2' X 2' Type 5 Grey Granular Texture Groove Pattern	Basement Closet Room 24	NAD
110	1217313	Suspended Ceiling Tile 2' X 2' Type 3 Brown Layered Texture Groove Pattern	Basement Closet Room 24	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
111	1217314	Cementitious Fitting on Fiberglass Insulated Piping	Basement Closet Room 24	NAD
112	1222513	Beige 9" Floor Tile Mastic	Kitchenette Room 247	0.50% Chrysotile (Point Count) 10% Chrysotile
113	1222514	Beige 9" Floor Tile	Kitchenette Room 247	0.50% Chrysotile (Point Count)
114	1222515	Beige 9" Floor Tile	Kitchenette Room 247	0.75% Chrysotile (Point Count)
115	1222516	Fibrous Roof Insulation	Room 234	NAD
116	1222517	Fibrous Roof Insulation	Room 234	NAD
117	1222518	Fibrous Roof Insulation	Room 241	NAD
118	1222519	Suspended Ceiling Tile 2' X 2' Type 1 Tan Granular Texture Groove Pattern	Room 240	NAD
119	1222520	Suspended Ceiling Tile 2' X 2' Type 1 Tan Granular Texture Groove Pattern	Room 230	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
120	1222521	Suspended Ceiling Tile 2' X 2' Type 1 Tan Granular Texture Groove Pattern	Room 247	NAD
121	1222522	Suspended Ceiling Tile 2' X 2' Type 2 Light Brown Granular Texture Groove Pattern	Room 240	NAD
122	1222523	Suspended Ceiling Tile 2' X 2' Type 2 Light Brown Granular Texture Groove Pattern	Room 240	NAD
123	1222524	Suspended Ceiling Tile 2' X 2' Type 2 Light Brown Granular Texture Groove Pattern	Room 240	NAD
124	1222525	Suspended Ceiling Tile 2' X 2' Type 3 Brown Layered Texture Groove Pattern	Room 247	NAD
125	1222526	Suspended Ceiling Tile 2' X 2' Type 3 Brown Layered Texture Groove Pattern	Room 233	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
126	1222527	Suspended Ceiling Tile 2' X 2' Type 3 Brown Layered Texture Groove Pattern	Room 233	NAD
127	1222528	Suspended Ceiling Tile 2' X 2' Type 4 Dark Brown Layered Texture Groove Pattern	Room 230	NAD
128	1222529	Suspended Ceiling Tile 2' X 2' Type 4 Dark Brown Layered Texture Groove Pattern	Room 230	NAD
129	1222530	Suspended Ceiling Tile 2' X 2' Type 4 Dark Brown Layered Texture Groove Pattern	Room 230	NAD
130	1222531	Suspended Ceiling Tile 2' X 2' Type 5 Grey Granular Texture Groove Pattern	Room 229	NAD
131	1222532	Suspended Ceiling Tile 2' X 2' Type 5 Grey Granular Texture Groove Pattern	Room 229	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
132	1222533	Suspended Ceiling Tile 2' X 2' Type 6 Brown Fibrous Texture Smooth Face	Second Floor Corridor	NAD
133	1222534	Suspended Ceiling Tile 2' X 2' Type 6 Brown Fibrous Texture Smooth Face	Second Floor Corridor	NAD
134	1222535	Suspended Ceiling Tile 2' X 2' Type 6 Brown Fibrous Texture Smooth Face	Second Floor Corridor	NAD
136	1217294	Window Caulk	Exterior Metal Window	4.25% Chrysotile (Point Count)
137	1217295	Window Caulk	Exterior Metal Window	Not Analyzed*
138	1217296	Window Caulk	Exterior Metal Window	Not Analyzed*
139	1217297	Window Glazing	Exterior Metal Window	4.50% Chrysotile (Point Count)

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
140	1217298	Window Glazing	Exterior Metal Window	Not Analyzed*
141	1217299	Window Glazing	Exterior Metal Window	Not Analyzed*

NOTE: "NAD" INDICATES NO ASBESTOS DETECTED

* EPA protocols consider one positive result as confirmation that a material contains asbestos. If the first sample of a material is found to contain asbestos, no further confirmation is necessary and any additional samples are therefore not analyzed.

3.2 Asbestos Analytical Procedures

Analysis was performed by International Asbestos Testing Laboratories, Inc. (IATL), Mt. Laurel, New Jersey, and Chemscope, Inc., North Haven, Connecticut. Both laboratories are accredited by the National Institute of Standards and Technology accredited laboratory. Analysis was performed using Polarized Light Microscopy (PLM) Method EPA 600. Point counting was used to quantify asbestos content for all samples found to contain less than ten percent asbestos.

3.3 Asbestos Analytical Results

The results of recent bulk sampling performed by DELTA are summarized in Table 3-1. Laboratory data sheets are included in Appendix B.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: light brown 9" floor tile and mastic; gray 9" floor tile and mastic; tan "dot pattern" 9" floor tile (the tile mastic does not contain asbestos); brown 9" floor tile and mastic; white "dot pattern" 9" floor tile and mastic; white with brown specks 9" floor tile and mastic; green 9" floor tile and mastic; beige 9" floor tile and mastic; mastic from beige 12" floor tile (the tile does not contain asbestos); glue material ("glue dots") used to affix bulletin boards to the walls in classroom areas; exterior caulking material on metal windows; and glazing material on metal windows.

The various types of older 9" vinyl floor tile in the building were found to contain between 1.25 and 3.25% chrysotile asbestos. The tile mastic was also found to contain asbestos, with the exception of mastic from the 9" tan "dot pattern" tile, which does not contain asbestos. Mastic from the other types of 9" tile had asbestos contents ranging from 4.5 to 17% chrysotile. The beige 12" tile mastic contains 3.5% chrysotile; the tile itself does not contain asbestos.

Floor tile in the building is generally in fair to good condition, with loose tiles in some areas. Though the tile is unlikely to present a hazard unless it is actively disturbed, any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile (and mastic if applicable) as asbestos.

Glue material ("glue dots") used to affix bulletin boards to the walls in classroom areas was found to contain 1.5% chrysotile asbestos. The glue is hard and is nonfriable. The material is unlikely to release asbestos fibers unless disturbed.

TABLE 3-2: ASBESTOS-CONTAINING MATERIAL
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

HOMOGENEOUS AREA NUMBER	MATERIAL DESCRIPTION	LOCATION	ASBESTOS TYPE AND CONTENT (%)
1	Light Brown 9" Floor Tile	Basement West Corridor, First and Second Floor Corridors, Rooms 4, 5,111-113, 122, 127, 131, 137, 138-142, 145, 151-155, 166, 203, 209, 225	2.5% Chrysotile
2	Mastic From Light Brown 9" Floor Tile	See Above	14% Chrysotile
3	Gray 9" Floor Tile	Rooms 2, 3, 7, 8, 23, 24, 121, 128, 130, 134, 162, 167, 164, 165, 169, 207, 211, 227, 230, 234, 236, 241, 242, 248, 249, 255, 257	1.25% Chrysotile
4	Mastic From Gray 9" Floor Tile	See Above	8.25% Chrysotile
5	Tan 9" Dot Pattern Floor Tile	Rooms 101, 201 (Connecting Passages)	3% Chrysotile
6	Green 9" Floor Tile	Rooms 9, 10, 13, 118, 132, 155	3.25% Chrysotile
7	Mastic From Green 9" Floor Tile	See Above	12% Chrysotile

TABLE 3-2: ASBESTOS-CONTAINING MATERIAL
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

8	Beige 9" Floor Tile	Rooms 119, 123, 124, 233, 237, 251, 254	3.0% Chrysotile
9	Mastic From Beige 9" Floor Tile	See Above	17% Chrysotile
10	White 9" Dot Pattern Floor Tile	Stairwell No. 2	1.5% Chrysotile
11	Mastic From White 9" Dot Pattern Floor Tile	See Above	1.5% Chrysotile
12	Brown 9" Floor Tile	Rooms 17, 18, 21, 22, 231, 233, 234, 239, 240, 244, 246, 247, 252, 254, 255, 258	3.0% Chrysotile
13	Mastic From Brown 9" Floor Tile	See Above	10% Chrysotile
14	White with Brown Specks 9" Floor Tile	Second Floor Corridor Near 207/211, Stairwell No. 1	1.5% Chrysotile
15	Mastic From White with Brown Specks 9" Floor Tile	See Above	10% Chrysotile
16	Mastic From Beige 12" Floor Tile	See Above	3.5% Chrysotile
17	Glue Dot From Corkboard	Classrooms Throughout	1.5% Chrysotile
18	Exterior Window Caulk	Windows Throughout	4.25% Chrysotile
19	Exterior Window Glazing	Windows Throughout	4.5% Chrysotile

NOTE: NAD indicates "No Asbestos Detected"

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

HOMOGENEOUS AREA NUMBER	MATERIAL DESCRIPTION	LOCATION	ASBESTOS TYPE AND CONTENT (%)
20	Mastic From Tan 9" Dot Pattern Floor Tile	See Above	NAD
21	Beige 12" Floor Tile	Room 120	NAD
22	Cementitious Mudded Fittings on Fiberglass Insulated Plumbing	Throughout	NAD
23	Suspended Ceiling Tile 2' X 2' Type 1 Tan Granular Texture Groove Pattern	Rooms 230, 240, 247	NAD
24	Suspended Ceiling Tile 2' X 2' Type 2 Light Brown Granular Texture Groove Pattern	Room 240	NAD
25	Suspended Ceiling Tile 2' X 2' Type 3 Brown Layered Texture Groove Pattern	Throughout much of Building	NAD

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

26	Suspended Ceiling Tile 2' X 2' Type 4 Dark Brown Layered Texture Groove Pattern	Room 230	NAD
27	Suspended Ceiling Tile 2' X 2' Type 5 Grey Granular Texture Groove Pattern	Rooms 24, 229	NAD
28	Suspended Ceiling Tile 2' X 2' Type 6 Brown Fibrous Texture Smooth Face	Second Floor Corridor	NAD
29	Suspended Ceiling Tile 2' X 4'	Rooms 22, 155	NAD
30	Fibrous Roof Insulation	Throughout	NAD

NOTE: NAD indicates "No Asbestos Detected"

Exterior window glazing and caulking material was found to contain 4.5% and 4.25% chrysotile asbestos, respectively. The material is hard and is nonfriable. The material is unlikely to release asbestos fibers under normal conditions, but would have to be addressed if the windows are replaced.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

Domestic hot and cold water piping throughout the building is insulated with fiberglass. The pipe elbows have cementitious fittings which were found not to contain asbestos.

4.0 DISCUSSION AND RECOMMENDATIONS

The Whipple Building is a two-story (with full basement) 24,500± square foot structure. The building was constructed in 1968. The building consists of: offices, classrooms and storage areas in the basement; classrooms, offices and a cafeteria on the first floor; and dormitory rooms on the second floor. The building is heated by a forced hot air system. The building is served by the boiler room in the basement of the Girls' Building.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: light brown 9" floor tile and mastic; gray 9" floor tile and mastic; tan "dot pattern" 9" floor tile (the tile mastic does not contain asbestos); brown 9" floor tile and mastic; white "dot pattern" 9" floor tile and mastic; white with brown specks 9" floor tile and mastic; green 9" floor tile and mastic; beige 9" floor tile and mastic; mastic from beige 12" floor tile (the tile does not contain asbestos); glue material ("glue dots") used to affix bulletin boards to the walls in classroom areas; exterior caulking material on metal windows; and glazing material on metal windows.

The various types of older 9" vinyl floor tile in the building were found to contain between 1.25 and 3.25% chrysotile asbestos. The tile mastic was also found to contain asbestos, with the exception of mastic from the 9" tan "dot pattern" tile, which does not contain asbestos. Mastic from the other types of 9" tile had asbestos contents ranging from 4.5 to 17% chrysotile. The beige 12" tile mastic contains 3.5% chrysotile; the tile itself does not contain asbestos.

Floor tile in the building is generally in fair to good condition, with loose tiles in some areas. Though the tile is unlikely to present a hazard unless it is actively disturbed, any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile (and mastic if applicable) as asbestos.

Glue material ("glue dots") used to affix bulletin boards to the walls in classroom areas was found to contain 1.5% chrysotile asbestos. The glue is hard and is nonfriable. The material is unlikely to release asbestos fibers unless disturbed.

Exterior window glazing and caulking material was found to contain 4.5% and 4.25% chrysotile asbestos, respectively. The material is hard and is nonfriable. The material is unlikely to release asbestos fibers under normal conditions, but would have to be addressed if the windows are replaced.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

Domestic hot and cold water piping throughout the building is insulated with fiberglass. The pipe elbows have cementitious fittings which were found not to contain asbestos.

5.0 ESTIMATED COST FOR ASBESTOS ABATEMENT

A cost estimate for abatement of all identified asbestos-containing materials in the building is outlined in Table 5-1. The estimated cost for abatement of the building is $127,972. It should be noted that the cost estimate does not include removal of roofing materials or window compound. The cost estimate utilizes standard unit prices for removal of different types of asbestos-containing materials. When an actual asbestos abatement project is planned, a more precise estimate can be developed based on the specific work scope.

TABLE 5-1: ASBESTOS ABATEMENT COST ESTIMATE
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT
(TOTAL ABATEMENT OF ASBESTOS-CONTAINING MATERIALS)

Building/Description	Quantity	Unit	Unit Cost	Subtotal Cost	Consultant (20%)	Contingency (10%)	Total Cost
REMOVAL							
Misc. (Glue Dots)	168	SF	$5.00	$840	$168	$84	$1,092
Misc. (VAT/Mastic)	19,520	SF	$5.00	$97,600	$19,520	$9,760	$126,880
REPLACEMENT							
Misc.		SF	N/A				
GRAND TOTAL				$98,440	$19,688	$9,844	$127,972
						ABATEMENT ESTIMATE:	**$127,972**

NOTE: TABLE DOES NOT INCLUDE ABATEMENT OF ANY EXTERIOR ASBESTOS SUCH AS WINDOW CAULK OR ROOFING.

6.0. LIMITATIONS

The survey has the following limitations:

- DELTA's survey included an evaluation for the presence of asbestos-containing insulation on electrical equipment in the building. The inspection included building wiring, whips and fixtures. No suspect insulation was found. The inspection was designed to cover a representative portion of the building, since it was not feasible to examine all fixtures, junction boxes, etc.

- The survey did not utilize "destructive" sampling methods, and therefore may not have identified all of the asbestos-containing materials in the building. Specifically, the inspection did not include areas enclosed by walls or ceilings, unless these spaces could be accessed without damage.

- The survey did not include destructive sampling of furnishings such as chalkboards, corkboards, fire doors and benchtops.

- The survey attempted to access and identify asbestos-containing materials associated with HVAC and mechanical systems. However, such systems were not dismantled during the inspection. It is possible that boilers, furnaces, fan units and other devices may contain gaskets and other interior asbestos material which can only be accessed through dismantling them. Care should be taken to avoid the accidental disturbance of asbestos during maintenance or repair work on such devices.

APPENDIX A

Inventory of Identified Asbestos-Containing Material

WHIPPLE HALL
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
BASEMENT													
WEST CORR.	ALONG ROOMS 2-24	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	450								
WEST CORR.	ALONG ROOMS 2-24	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
2 AND 8	OFFICE	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	330								
3	CLOSET	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	15								
4	CLOSET	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	15								
5	OFFICE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	210								
6	BATHROOM												
7	CLOSET	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	25								
9 AND 13	STORAGE	6, 7	9" GREEN FLOOR TILE/MASTIC	3.25% / 12%	230								
10	OFFICE	6, 7	9" GREEN FLOOR TILE/MASTIC	3.25% / 12%	100								
11	BOYS' BATHROOM												
12	ELEV MACHINE ROOM												
14	CUSTODIAN CLOSET												
15	GIRLS' BATHROOM												
16	ELEVATOR												
17 AND 22	CLASSROOM	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	630								
17 AND 22	CLASSROOM	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
18	OFFICE	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	120								
18	OFFICE	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
19	BATHROOM												
20	BATHROOM												
21	HOUSEKEEPER	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	120								
23	OFFICE	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	150								
23	OFFICE	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
24	CLOSET	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	50								

WHIPPLE HALL
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
FIRST FLOOR													
101	CONNECTING PASSAGE	5	9" TAN DOT PATTERN FLOOR TILE	3%	320								
EAST CORRIDOR	ALONG ROOMS 111-130	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	750								
EAST CORRIDOR	ALONG ROOMS 111-130	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
111	OFFICE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	400								
111	OFFICE	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
112	OFFICE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	400								
112	OFFICE	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
113	STORAGE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	40								
114	BATHROOM												
115	BATHROOM												
116	BATHROOM												
117	BATHROOM												
118	STORAGE	6, 7	9" GREEN FLOOR TILE/MASTIC	3.25% / 12%	150								
119	PLAY ROOM	8, 9	9" BEIGE FLOOR TILE/MASTIC	3.0% / 4.5%	210								
120	CLASSROOM	16	12" BEIGE FLOOR TILE/MASTIC	0% / 3.5%	440								
120	CLASSROOM	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
121	CLASSROOM	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	440								
121	CLASSROOM	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
122	STORAGE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	40								
123-124	CLOSET	8, 9	9" BEIGE FLOOR TILE/MASTIC	3.0% / 4.5%	60								
125	BATHROOM												
126	BATHROOM												
127	STORAGE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	40								
128	CLASSROOM	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	440								
128	CLASSROOM	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
130	LOUNGE	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	440								
130	LOUNGE	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
131	LAMINATING ROOM	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	40								
132	CUSTODIAN STORAGE	6, 7	9" GREEN FLOOR TILE/MASTIC	3.25% / 12%	20								
133	CUSTODIAN												
134	UV DARK ROOM	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	150								CARPET IS PRESENT OVER TILE
135	BATHROOM												
136	BATHROOM												
137	CLASSROOM	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	440								
137	CLASSROOM	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
138	FIRST AID	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	45								
139-140	STORAGE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	60								
141	CLASSROOM	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	440								
141	CLASSROOM	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
142	OFFICE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	440								
142	OFFICE	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
143	BATHROOM												
144	BATHROOM												

WHIPPLE HALL
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
145	STORAGE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	40								
UPPER LEVEL													
151	VESTIBULE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	25								
152	ENTRANCE FOYER	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	80								
154	DISHWASHING	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	60								
155	DINING ROOM	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	440								
155	DINING ROOM	6, 7	9" GREEN FLOOR TILE/MASTIC	3.25% / 12%	440								
156	STORAGE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	50								
157	ELEVATOR												
158	STORAGE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	25								
159	CUSTODIAN	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	25								
160	BATHROOM												
161	BATHROOM												
162, 167	OFFICE	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	200								
162, 167	OFFICE	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
CORR. No. 1	CORR. NEAR RM. 154	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	270								
CORR. No. 2	CORR. NEAR RM. 155	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	190								
CORR. No. 2	CORR. NEAR RM. 155	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
CORR. No. 3	CORR. NEAR 157-165	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	175								
163	OFFICE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	200								
164-165, 169	OFFICE	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	610								
165	OFFICE	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
166	CUSTODIAN	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	20								
168	BATHROOM												

WHIPPLE HALL
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
SECOND FL.													
	CONNECTING PASSAGE	5	9" TAN DOT PATTERN FLOOR TILE/MASTIC	3% / 0%	230								
201/207	WORKSHOP AREA	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	800								
202/213	WORKSHOP AREA	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	800								
203	WORKSHOP AREA	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	1400								
203	WORKSHOP AREA	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
204	CUSTODIAN												
205	BATHROOM												
206, 220-221	BATHROOM												
208	OFFICE	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	400								
209	WORKSHOP AREA	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	1400								
209	WORKSHOP AREA	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
211	OFFICE	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	400								
CORRIDOR	CORR. NEAR 207/211	14, 15	9" WHITE FLOOR TILE/MASTIC	1.5% / 10%	110								
214, 218-219	BATHROOM												
215	BATHROOM												
216	CUSTODIAN												
UPPER LEVEL													
CORRIDOR	CORR ALONG 225-255	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	450								
225	LOBBY	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	200								
227	CLOSET	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	10								
229	CUSTODIAN												
230	BEDROOM	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	180								
231	CLOSET	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	10								
232	BATHROOM												
233	BEDROOM	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	180								
233	KITCHENETTE	8, 9	9" BEIGE FLOOR TILE/MASTIC	3.0% / 4.5%	20								
234	BEDROOM	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	180								
234	KITCHENETTE	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	20								
235	BATHROOM												
236	CLOSET	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	10								
237	KITCHENETTE	8, 9	9" BEIGE FLOOR TILE/MASTIC	3.0% / 4.5%	20								
238	BATHROOM												
239	CLOSET	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	10								
240	BEDROOM	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	180								
241	BEDROOM	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	180								
242	CLOSET	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	10								
243	BATHROOM												
244	KITCHENETTE	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	20								
245	BATHROOM												
246	CLOSET	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	10								
247	BEDROOM	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	180								
248	BEDROOM	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	180								

WHIPPLE HALL
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
249	CLOSET	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	10								
250	BATHROOM												
251	KITCHENETTE	8, 9	9" BEIGE FLOOR TILE/MASTIC	3.0% / 4.5%	20								
252	CLOSET	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	10								
253	BATHROOM												
254	BEDROOM	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	180								
254	KITCHENETTE	8, 9	9" BEIGE FLOOR TILE/MASTIC	3.0% / 4.5%	20								
255	BEDROOM	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	180								
255	KITCHENETTE	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	20								
256	BATHROOM												
257	CLOSET	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	10								
258	KITCHENETTE	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	20								
MECH. ATTIC	MECH. ATTIC												
STAIRWELLS													
STAIRWELL NO. 1	GROUND FL. LANDING	14, 15	9" WHITE FLOOR TILE/MASTIC	1.5% / 10%	120								SOME LOOSE TILES PRESENT
	FIRST FL. LANDING	14, 15	9" WHITE FLOOR TILE/MASTIC	1.5% / 10%	50								
	SECOND FL. LANDING	14, 15	9" WHITE FLOOR TILE/MASTIC	1.5% / 10%	70								
STAIRWELL NO. 2	GROUND FL. LANDING	10, 11	9" WHITE DOT PATTERN FL. TILE/MASTIC	2.5% / 10%	120								

APPENDIX B

Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-59 Gray fibrous 2x4 suspended ceiling tile () / 44-Kitchen Area Near G15 Above Ceiling	*No Asbestos Detected* *10% Non- Fibrous Particles* *40% Cellulose* *50% Mineral Wool*
142-666-60 Gray fibrous 2x4 suspended ceiling tile () / 45-Kitchen Area Near G15 Above Ceiling	*No Asbestos Detected* *10% Non- Fibrous Particles* *40% Cellulose* *50% Mineral Wool*
142-666-61 Gray fibrous 2x4 suspended ceiling tile () / 46-Kitchen Area Near G15 Above Ceiling	*No Asbestos Detected* *10% Non- Fibrous Particles* *40% Cellulose* *50% Mineral Wool*
142-666-62 White hard plaster layer (on gray granular plaster layer) / 47-Stairwell Landing to Basement Kitchen Area	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-63 Gray granular plaster layer (from under sample #62) / 48-Stairwell Landing to Basement Kitchen Area	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
142-666-64 Light brown hard 9x9 floor tile (on brown and black mastic) / 49-Wipple Corridor #1 Near Dining Room	*Not Analyzed*

NVLAP **ACCREDITED LAB# 101061-0**

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-65 Brown and black mastic (from under sample #64) / 50-Wipple Corridor #1 Near Dining Room	*11% Chrysotile Asbestos* *26% Non- Fibrous Particles* *63% Volatile on Ignition*
142-666-66 Hard gray 9x9 floor tile (on black mastic) / 51-Wipple Room 165	*Not Analyzed*
142-666-67 Hard gray 9x9 floor tile (on black mastic) / 52-Wipple Room 165	*Not Analyzed*
142-666-68 Hard gray 9x9 floor tile (on black mastic) / 53-Wipple Room 165	*Not Analyzed*
142-666-69 Black mastic (from under sample #66) / 51-Wipple Room 165	*8% Chrysotile asbestos* *17% Non- Fibrous Particles* *75% Volatile on Ignition*
142-666-70 Black mastic (from under sample #67) / 52-Wipple Room 165	*Not Analyzed*

NVLAP ACCREDITED LAB# 101061-0

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-71 Black mastic (from under gray 9x9 floor tile) / 54-Wipple Room 165	*Not Analyzed*
142-666-72 White hard plaster layer (on light gray granular plaster layer) / 55-Girl's Building Second Floor Corridor	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-73 Light gray granular plaster layer (from under sample #72) / 56-Girl's Building Second Floor Corridor	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*
142-666-74 White hard plaster layer (on light gray granular plaster layer) / 57-Girl's Building Basement	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-75 Light gray granular plaster layer (from under sample #74) / 58-Girl's Building Basement	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*
142-666-76 White hard plaster layer (on light gray granular plaster layer) / 59-Administration Building Stairs to Basement Near A-B	*No Asbestos Detected* *100% Non- Fibrous Particles*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-101 Light gray granular plaster layer (from under sample #100) / 79-G104	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*
142-666-102 Light gray crumbly pipe fitting (on fiberglass insulation) / 80-Whipple Corridor Above Ceiling Near 156	*No Asbestos Detected* *55% Non- Fibrous Particles* *45% Mineral Wool* *<1% Cellulose*
142-666-103 Light gray crumbly pipe fitting (on fiberglass insulation) / 81-Whipple Corridor Above Ceiling Near 156	*No Asbestos Detected* *55% Non- Fibrous Particles* *45% Mineral Wool* *<1% Cellulose*
142-666-104 Light gray crumbly pipe fitting (on fiberglass insulation) / 82-Whipple Corridor Above Ceiling Near 156	*No Asbestos Detected* *55% Non- Fibrous Particles* *45% Mineral Wool* *<1% Cellulose*
142-666-105 Hard gray 9x9 floor tile with black dot pattern (on black mastic) / 83-Whipple Corridor Connecting Passage	*3% Chrysotile Asbestos* *72% Non- Fibrous Particles* *25% Volatile on Ignition*
142-666-106 Hard gray 9x9 floor tile with black dot pattern (on black mastic) / 84-Whipple Corridor Connecting Passage	*Not Analyzed*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-107 Hard gray 9x9 floor tile with black dot pattern (on black mastic) / 85-Whipple Corridor Connecting Passage	*Not Analyzed*
142-666-108 Black mastic (from under sample #105) / 83-Whipple Corridor Connecting Passage	*No Asbestos Detected* *19% Non- Fibrous Particles* *81% Volatile on Ignition*
142-666-109 Black mastic (from under sample #106) / 84-Whipple Corridor Connecting Passage	*No Asbestos Detected* *28% Non- Fibrous Particles* *72% Volatile on Ignition*
142-666-110 Black mastic (from under sample #107) / 85-Whipple Corridor Connecting Passage	*No Asbestos Detected* *18% Non- Fibrous Particles* *82% Volatile on Ignition*
142-666-111 Light brown hard 9x9 floor tile (on brown and black mastic) / 86-Wipple Corridor Near Exit	*Not Analyzed*
142-666-112 Light brown hard 9x9 floor tile (on brown and black mastic) / 87-Wipple Corridor Near Exit	*Not Analyzed*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-113 Brown and black mastic (from under sample #111) / 86-Wipple Corridor Near Exit	*14% Chrysotile Asbestos* *7% Non- Fibrous Particles* *79% Volatile on Ignition*
142-666-114 Brown and black mastic (from under sample #112) / 87-Wipple Corridor Near Exit	*Not Analyzed*
142-666-115 Hard green 9x9 floor tile (on black mastic) / 88-Wipple Cafeteria	*Not Analyzed*
142-666-116 Hard green 9x9 floor tile (on black mastic) / 89-Wipple Cafeteria	*Not Analyzed*
142-666-117 Hard green 9x9 floor tile (on black mastic) / 90-Wipple Cafeteria	*Not Analyzed*
142-666-118 Black mastic (from under sample #115) / 88-Wipple Cafeteria	*12% Chrysotile Asbestos* *10% Non- Fibrous Particles* *78% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-119 Black mastic (from under sample #116) / 89-Wipple Cafeteria	*Not Analyzed*
142-666-120 Black mastic (from under sample #117) / 90-Wipple Cafeteria	*Not Analyzed*
142-666-121 Hard beige 9x9 floor tile (on black mastic) / 91-Wipple Cafeteria	*Not Analyzed*
142-666-122 Hard beige 9x9 floor tile (on black mastic) / 92-Wipple Cafeteria	*Not Analyzed*
142-666-123 Hard beige 9x9 floor tile (on black mastic) / 93-Wipple Cafeteria	*Not Analyzed*
142-666-124 Black mastic (from under sample #121) / 91-Wipple Cafeteria	*17% Chrysotile Asbestos* *9% Non- Fibrous Particles* *74% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-125 Black mastic (from under sample #122) / 92-Wipple Cafeteria	*Not Analyzed*
142-666-126 Black mastic (from under sample #123) / 93-Wipple Cafeteria	*Not Analyzed*
142-666-127 Gray fibrous 2x2 suspended ceiling tile () / 94-Wipple Corridor	*No Asbestos Detected* *15% Non- Fibrous Particles* *55% Mineral Wool* *30% Cellulose*
142-666-128 Gray fibrous 2x2 suspended ceiling tile () / 95-Wipple Corridor	*No Asbestos Detected* *15% Non- Fibrous Particles* *55% Mineral Wool* *30% Cellulose*
142-666-129 Gray fibrous 2x2 suspended ceiling tile () / 96-Wipple Corridor	*No Asbestos Detected* *15% Non- Fibrous Particles* *55% Mineral Wool* *30% Cellulose*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings

AIHA Bulk Asbestos Proficiency Analytical Testing (PAT) Program. PAT Proficient Lab #100134
Accreditation by the National Institute of Standards and Technology/National Voluntary Lab Accreditation Program (NVLAP) does not imply endorsement by this Federal Agency.
This report pertains only to the samples tested and may not be reproduced in part.
The scope of Accreditation referenced in this report pertains to bulk asbestos analysis by PLM.
Connecticut Approved Environmental Lab PH 0581
See test parameters on reverse side of this report.

Signature (if applicable)	Signature (if applicable)	*Authorized Signature:*	or	*Authorized Signature:*
Analyst	Inspector	*Ronald D. Arena* *Director*		*Suzanne Cristante* *QA Coordinator*

NVLAP ACCREDITED LAB# 101061-0

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME:	PROJECT LOCATION:	PROJECT NUMBER:
Mystic Education Center	Mystic, CT	D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
43	Pipe Insulation							Kitchen Area Near G1= above Ceiling				
44	2 x 4 Suspended Ceiling Tile											
45												
46												
47	Wall plaster Top Coat						No Asbestos	Stairwell Landing to Basement Kitchen Area				
48	Wall plaster Brown Coat						No Asbestos					
49	Light Brown 9" Floor Tile						Not Analyzed.	Whipple Corridor No. 1 Near Dining Rm				
50	Mastic From Light Brown 9" Floor Tile						11% Chrysotile Asbestos					
51	Gray 9" Floor Tile						Not Analyzed	Room 165 Whipple				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patucelli	9-19-00	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: P97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
S2	Gray 9" Floor Tile							Room 165 Wing 2				
S3	↓							↓				
S4	Mastic From Gray 9" Floor Tile						8% Chrysotile Asbestos	↓				
S5	Wall Plaster Top Coat							Girls' Building 2nd Floor Corridor				
S6	Wall Plaster Brown Coat							↓				
S7	Wall Plaster Top Coat						No Asbestos	Girls' Building Basement				
S8	Wall Plaster Brown Coat						No Asbestos	↓				
S9	Wall Plaster Top Coat						No Asbestos	Admin. Bldg. Stairs to Basement Near A-B				
S10	Wall Plaster Brown Coat						No Asbestos!	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Paturelli	9-19-00	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D 97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
79	Ceiling Plaster Both Layers							G 104				
80	Pipe Fitting on Fiberglass Insulation						No Asbestos Detected.	Unisex corridor above ceiling near 15 G				
81	↓							↓				
82	↓							↓				
83	Tan 9" Dot Pattern Floor Tile						3% Chrysotile Asbestos	Unisex Corridor connecting passage				
84	↓							↓				
85	↓							↓				
86	Light Brown 9" Floor Tile							Unisex corridor near Exit				
87	↓							↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G Patrick	9-19-00	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D 97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
88	Green 9" Floor Tile							unique cafeteria				
89	↓							↓				
90	↓							↓				
91	Beige 9" Floor Tile							↓				
92	↓							↓				
93	↓							↓				
94	2x2' Suspe. Ceiling Tile							unique corridor				
95	↓							↓				
96	↓							↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Paluch	9-19-01	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEduCtr;WhippleBldg,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248505
Client No.: 55
Material Description: Grey Floor Tile; 9"
Location: Room 201 Connecting Passage

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.50	Chrysotile	None Detected	None Detected	PC 98.50

Lab No. 1248506
Client No.: 56
Material Description: Black Mastic
Location: A/W9"Tile; Room 201 Connecting Passage

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1248507
Client No.: 57
Material Description: Tan Floor Tile; 9"
Location: Room 240

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.0 No Mastic	Chrysotile	None Detected	None Detected	97

Lab No. 1248508
Client No.: 58
Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEduCtr;WhippleBldg,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248509
Client No.: 59
Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1248510
Client No.: 60
Material Description: White Floor Tile; 9"
Location: Ground Floor Landing Stairwell 2

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.50	Chrysotile	None Detected	None Detected	PC 97.50
No Mastic				

Lab No. 1248511
Client No.: 61
Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1248512
Client No.: 62
Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____
Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEduCtr;WhippleBldg,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248513
Client No.: 63
Material Description: White Floor Tile; 9"
Location: 2nd Floor Landing Stairwell 1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.50	Chrysotile	None Detected	None Detected	PC 98.50
No Mastic				

Lab No. 1248514
Client No.: 64
Material Description: Black Mastic
Location: 2nd Floor Landing A/W9"Tile;Stairwell1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	None Detected	None Detected	90

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405
(203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center
PROJECT LOCATION: Whipple Building Mystic, CT
PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
55	9" Tan Dot Pattern Floor Tile					1248505		Room 201 Connecting Passage				
56	Mastic From Above					1248506		↓				
57	9" Brown Floor Tile					1248507	positive stop	Room 240				
58	9" Brown Floor Tile					1248508	↓	Room 240				
59	9" Brown Floor Tile					1248509		Room 233				
60	9" White Dot Pattern Floor Tile					1248510	positive stop	Ground Floor Landing - Stairwell 2				
61	↓					1248511	↓	↓				
62	↓					1248512	↓	↓				
63	9" White Floor Tile with Brown Specks					1248513		Second Floor Landing Stairwell 1				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P. Melanson	Delta	3/26/01	2:00 pm	1	1-9	James P. Melanson			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405

(203) 481-7668

APR. 2.2001 12:24PM NO.287 P.21/21

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Whipple Building Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well; SG = Sludge; X = Other; Specify; O = Outfall; S = Soil; WO = Waste Oil; R = River/Stream; RO = Run Off; LF = Landfill; B = Bottom Sediment; WW = Wastewater; SW = Sewage; L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
64	9" white floor tile mastic					1248514		Second floor landing stairwell 1				

Container Codes: P = Plastic; E = EPA VIAL; G = Glass; A = Amber Glass; B = Bacteria Bottle
Preservative Codes: I = Iced; F = Filtered; N = Nitric Acid (HNO_3); H = Hydrochloric Acid (HCl); S= Sodium Hydroxide (NaOH); T = Sodium Thiosulfate; E = Sulfuric Acid; O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James A Melnotte	Delta	2/26/01	2:00 pm	1	10	James A Melnotte			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217300 **Material Description:** Grey Floor Tile
Client No.: 97 **Location:** Black Mastic Room 23

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.25	Chrysotile	None Detected	None Detected	PC 98.75

Lab No. 1217300 **Material Description:** Grey Floor Tile
Client No.: 97 **Location:** Black Mastic Room 23

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 8.25	Chrysotile	None Detected	None Detected	PC 91.75
Black Mastic				
From Above				

Lab No. 1217301 **Material Description:** White Floor Tile
Client No.: 98 **Location:** Black Mastic Room 120

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1217301 **Material Description:** White Floor Tile
Client No.: 98 **Location:** Black Mastic Room 120

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.50	Chrysotile	None Detected	None Detected	PC 96.5
Black Mastic				
From Above				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Thom Snyder

Date: JAN 2001

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217302 **Material Description:** White Floor Tile
Client No.: 99 **Location:** Room 120

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Mastic Not Analyzed

Lab No. 1217303 **Material Description:** White Floor Tile
Client No.: 100 **Location:** Room 120

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Mastic Not Analyzed

Lab No. 1217304 **Material Description:** Brown Mastic
Client No.: 101 **Location:** Room 120

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.50	Chrysotile	None Detected	None Detected	PC 98.50

Lab No. 1217305 **Material Description:** Sample Not Analyzed
Client No.: 102 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Sean Snyder

Date:

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217306 **Material Description:** Sample Not Analyzed
Client No.: 103 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1217307 **Material Description:** Grey Floor Tile
Client No.: 104 **Location:** Black Mastic CorridorNearRoom154

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.75	Chrysotile	None Detected	None Detected	PC 98.25

Lab No. 1217307 **Material Description:** Grey Floor Tile
Client No.: 104 **Location:** Black Mastic CorridorNearRoom154

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	None Detected	None Detected	90
Black Mastic				
From Above				

Lab No. 1217308 **Material Description:** Green Floor Tile
Client No.: 105 **Location:** Black Mastic Dining Room 155

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.25	Chrysotile	None Detected	None Detected	PC 96.75

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: [illegible]

Date: [illegible]

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217308 **Material Description:** Green Floor Tile
Client No.: 105 **Location:** Black Mastic Dining Room 155

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	None Detected	None Detected	90
Black Mastic				
From Above				

Lab No. 1217309 **Material Description:** Tan/WhiteCeilingTile
Client No.: 106 **Location:** Dining Room 155

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	50	Mineral Wool	15
		35	Cellulose	

Lab No. 1217310 **Material Description:** Tan Floor Tile
Client No.: 107 **Location:** Tan Mastic CorridorNearRoom22

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.5	Chrysotile	None Detected	None Detected	PC 97.5

Lab No. 1217310 **Material Description:** Tan Floor Tile
Client No.: 107 **Location:** Tan Mastic CorridorNearRoom22

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Tan Mastic				
From Above				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: _____

Date: _____

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217311 **Material Description:** Green Floor Tile
Client No.: 108 **Location:** Yellow/Black Mixed Mastic; Room24

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.0	Chrysotile	None Detected	None Detected	97

Lab No. 1217311 **Material Description:** Green Floor Tile
Client No.: 108 **Location:** Yellow/Black Mixed Mastic; Room24

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 4.5	Chrysotile	None Detected	None Detected	PC 95.5
Yellow/Black Mixed Mastic; From Above				

Lab No. 1217312 **Material Description:** Grey/White
Client No.: 109 **Location:** Ceiling Tile SalientArea;Room24

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	80	Mineral Wool	20

Lab No. 1217313 **Material Description:** Tan/WhiteCeilingTile
Client No.: 110 **Location:** Room 24

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	25
		35	Mineral Wool	

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217314
Client No.: 111

Material Description: Grey Insulation
Location: Room 24

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	25	Mineral Wool	75

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center
PROJECT LOCATION: Mystic, CT Whipple Bldg.
PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
97	Gray 9" Floor Tile				121	7300	Asbestos PLM EPA 600	Room 23				
98	Beige 12" Floor Tile				121	7301	Positive stop	Room 120				
99	↓				121	7302	↓	↓				
100	↓				121	7303	↓	↓				
101	Glue Dot From Cardboard				121	7304	Positive stop	↓				
102	↓				121	7305	↓	↓				
103	↓				121	7306	↓	↓				
104	Light Brown 9" Floor Tile				121	7307		Corridor Near Room 154				
105	Green 9" Floor Tile				121	7308		Dining Room 155				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
				2					
				3	[illegible]	[illegible] 1/31/00			
				4					

ADDITIONAL COMMENTS:

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Whipple Bldg

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
106	2x4 Suspended Ceiling Tile				12	7309	Asbestos PLM EPA 600	Dining Room 155				
107	9" Light Brown Floor Tile				12	7310		Corridor Near Room 22				
108	9" Beige Floor Tile				12	7311		Closet Room 24				
109	2x4 Suspended Ceiling Tile Gray Body				12	7312		Salient Area Room 24				
110	2x4 Suspended Ceiling Tile Brown Body				12	7313		Room 24				
111	Pipe Fitting on Fiberglass Insul.				12	7314		↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
ADDITIONAL COMMENTS:				2					
				3					
				4					

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/20/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222513 **Material Description:** Lt.Brown Floor Tile
Client No.: 112 **Location:** Black Mastic Room247; Kitchenette

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.50	Chrysotile	None Detected	None Detected	PC 99.5

Lab No. 1222513 **Material Description:** Lt.Brown Floor Tile
Client No.: 112 **Location:** Black Mastic Room247; Kitchenette

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	None Detected	None Detected	90
Black Mastic				
From Above				

Lab No. 1222514 **Material Description:** Lt.Brown Floor Tile
Client No.: 113 **Location:** Room247; Kitchenette 9"

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.50	Chrysotile	None Detected	None Detected	PC 99.5
Mastic Not Analyzed				

Lab No. 1222515 **Material Description:** Lt.Brown Floor Tile
Client No.: 114 **Location:** Room247; Kitchenette 9"

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.75	Chrysotile	None Detected	None Detected	PC 99.25
Mastic Not Analyzed				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: Vane G. Smith, III
Vane G. Smith, III, AIHA-AAR 4719

Date:

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

* **Lab No.** 1222516 **Material Description:** White Non Fibrous
Client No.: 115 **Location:** Room 234

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

* **Lab No.** 1222517 **Material Description:** White Non Fibrous
Client No.: 116 **Location:** Room 234

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

* **Lab No.** 1222518 **Material Description:** White Non Fibrous
Client No.: 117 **Location:** Room 241

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1222519 **Material Description:** Grey Ceiling Tile
Client No.: 118 **Location:** Room 240 2x2; Type 1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	55	Cellulose	35
		10	Fibrous Glass	

* Different material than indicated on Sample Log/Description.

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith, III
Vane G. Smith, III, AIHA-AAR 4719

Date:

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222520 **Material Description:** Grey Ceiling Tile
Client No.: 119 **Location:** Room 230 2x2; Type 1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Cellulose	35
		20	Fibrous Glass	

Lab No. 1222521 **Material Description:** Grey Ceiling Tile
Client No.: 120 **Location:** Room 247 2x2; Type 1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	55	Cellulose	35
		10	Fibrous Glass	

Lab No. 1222522 **Material Description:** Grey Ceiling Tile
Client No.: 121 **Location:** Room 240 2x2; Type 2

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	35	Cellulose	40
		25	Fibrous Glass	

Lab No. 1222523 **Material Description:** Grey Ceiling Tile
Client No.: 122 **Location:** Room 240 2x2; Type 2

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	35	Cellulose	40
		25	Fibrous Glass	

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith, III
Vane G. Smith, III, AIHA-AAR 4719

Date:

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222524 **Material Description:** Grey Ceiling Tile
Client No.: 123 **Location:** Room 240 2x2; Type 2

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	35	Cellulose	40
		25	Fibrous Glass	

Lab No. 1222525 **Material Description:** Brown Ceiling Tile
Client No.: 124 **Location:** Room 247 2x2; Type 3

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	20
		50	Fibrous Glass	

Lab No. 1222526 **Material Description:** Brown Ceiling Tile
Client No.: 125 **Location:** Room 233 2x2; Type 3

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	20
		50	Fibrous Glass	

Lab No. 1222527 **Material Description:** Brown Ceiling Tile
Client No.: 126 **Location:** Room 233 2x2; Type 3

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	20
		50	Fibrous Glass	

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith, III
Vane G. Smith, III, AIHA-AAR 4719

Date:

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222528 **Material Description:** Lt.Brown CeilingTile
Client No.: 127 **Location:** Room 230 2x2; Type 4

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	25	Cellulose	20
		55	Fibrous Glass	

Lab No. 1222529 **Material Description:** Lt.Brown CeilingTile
Client No.: 128 **Location:** Room 230 2x2; Type 4

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	25	Cellulose	20
		55	Fibrous Glass	

Lab No. 1222530 **Material Description:** Lt.Brown CeilingTile
Client No.: 129 **Location:** Room 230 2x2; Type 4

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	25	Cellulose	20
		55	Fibrous Glass	

Lab No. 1222531 **Material Description:** Dk.Grey Ceiling Tile
Client No.: 130 **Location:** Room 229 2x2; Type 5

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	55	Fibrous Glass	45

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith, III
Vane G. Smith, III, AIHA-AAR 4719

Date:

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222532 **Material Description:** Dk.Grey Ceiling Tile
Client No.: 131 **Location:** Room 229 2x2; Type 5

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	55	Fibrous Glass	45

Lab No. 1222533 **Material Description:** Tan Ceiling Tile
Client No.: 132 **Location:** SecondFloor;Corridor 2x2; Type 6

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	75	Cellulose	25

Lab No. 1222534 **Material Description:** Tan Ceiling Tile
Client No.: 133 **Location:** SecondFloor;Corridor 2x2; Type 6

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	75	Cellulose	25

Lab No. 1222535 **Material Description:** Tan Ceiling Tile
Client No.: 134 **Location:** SecondFloor;Corridor 2x2; Type 6

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	75	Cellulose	25

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith III
Vane G. Smith, III, AIHA-AAR 4719

Date: FEB

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories
16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 609.231.9449 Fax: 609.231.9818

972/9

- Chain of Custody -

Client: Delta Environmental Services
P.O. Box 564
Branford, CT 06405

Project Name: Mystic Education Center
Project No.: Mystic, CT
D97-148-24

Phone: (203) 481-7668
FAX: (203) 488-8164

Contact: Jim McCarthy
Pager:

Special Instructions:

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[✓] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400
[ ] PCM : OSHA
[ ] PCM : Other_____
[ ] AAS : NIOSH 7082 (Air)
[ ] AAS : Lead in Drinking Water
[ ] AAS : Lead in Paint ASTM D3335-85a
[ ] AAS : Lead Dust/Wipe
[ ] AAS : Other Metals / Soil_____

[✓] PLM : Bulk Asbestos EPA 600
[ ] PLM : Point Counting 198.1
[ ] PLM : NOB via 198.1 (PLM only)
[ ] If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements **
(**call to confirm TAT!)

[ ] TEM : AHERA
[ ] TEM : NIOSH 7402
[ ] TEM : EPA Level II
[ ] TEM : Microvac Dust
[ ] TEM : Asbestos in Water
[ ] TEM : Bulk Analysis
[ ] TEM : NOB 198.4
[ ] TEM : Other_____
[ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ date / time Verbals: _____ date / time

[ ] 10 Day [ ] 5 Day [✓] 72 hour [✓] 48 hour [ ] 24 hour [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): _____ (start) - _____ (end) IATL#(s): _____ (start) - _____ (end) Total: ___

Chain of Custody:

Relinquished:	Jane N McCarthy	Date: 2/6/01	Time: 5:00 pm
Received:		Date:	Time:
Sample Log-in:	CS 2/8 2000	Date:	Time:
Sample Prep:		FEB Date: 8 2001	Time:
Analyzed:	WS 2/9/01	Date:	Time:
QA/QC Review:	[illegible]	Date: 02/19/01	Time:

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Whipple Bldg.

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED		COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
112	9" beige Floor Tile						Asbestos PLM EPA 600 1222513	Positive Stop	Room 247 Kitchenette				
113	↓						1222514	↓	↓				
114	↓						1222515	↓	↓				
115	Fibrous Roof Insulation						1222516	Positive Stop	Room 234				
116	↓						1222517	↓	↓				
117	↓						1222518	↓	Room 241				
118	2x2 Ceiling Tile - Type 1						1222519	Positive Stop	Room 240				
119	↓						1222520	↓	Room 230				
120	↓						1222521	↓	Room 247				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P. McLaughlin	Delta			1		James P. McLaughlin			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Whipple Bldg.

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify ___, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED		COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
121	2x2 Ceiling Tile - Type 2						Asbestos PLM EPA 600 1222522	positive stop	Room 240				
122	↓						1222523	↓	↓				
123	↓						1222524	↓	↓				
124	2x2 Ceiling Tile - Type 3						1222525	positive stop	Room 247				
125	↓						1222526	↓	Room 233				
126	↓						1222527	↓	↓				
127	2x2 Ceiling Tile - Type 4						1222528	positive stop	Room 230				
128	↓						1222529	↓	↓				
129	↓						1222530	↓	↓				

Container Codes: P = Plastic E = EPA VIAL G = Glass A = Amber Glass B = Bacteria Bottle
Preservative Codes: I = Iced F = Filtered N = Nitric Acid (HNO_3) H = Hydrochloric Acid (HCl) S= Sodium Hydroxide (NaOH) T = Sodium Thiosulfate F = Sulfuric Acid
O = Other; Specify ___

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melatti	Delta			1		James R Melatti			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Whipple Bldg

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
130	2x2 Ceiling Tile - Type 5						Asbestos PLM EPA 600 1222531 positive stop	Room 229				
131	↓						1222532 ↓	↓				
132	2x2 Ceiling Tile - Type 6						1222533 positive stop	Second Floor Corridor				
133	↓						1222534 ↓	↓				
134	↓						1222535					

Container Codes: P = Plastic E = EPA VIAL G = Glass A = Amber Glass B = Bacteria Bottle
Preservative Codes: I = Iced F = Filtered N = Nitric Acid (HNO_3) H = Hydrochloric Acid (HCl) S= Sodium Hydroxide (NaOH) T = Sodium Thiosulfate F = Sulfuric Acid
O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
ADDITIONAL COMMENTS:				2					
				3					
				4					

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217294 **Material Description:** White Caulk
Client No.: 136 **Location:** Window Caulk

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 4.25	Chrysotile	None Detected	None Detected	PC 95.75

Lab No. 1217295 **Material Description:** Sample Not Analyzed
Client No.: 137 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1217296 **Material Description:** Sample Not Analyzed
Client No.: 138 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1217297 **Material Description:** Grey Caulk
Client No.: 139 **Location:** Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 4.50	Chrysotile	None Detected	None Detected	PC 95.5

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Thom Snyder

Date: JAN [illegible] 20[illegible]

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217298
Client No.: 140
Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1217299
Client No.: 141
Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Thom Snyder

Date: JAN 5 2001

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT — Whipple Building

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
136	Window Caulk				12	17294	Asbestos PLM EPA 600 — PLEASE USE POSITIVE STOP					
137	↓				12	17295	↓					
138	↓				12	17296	↓					
139	Window Glazing				12	17297	PLEASE USE POSITIVE STOP					
140	↓				12	17298	↓					
141	↓				12	17299	↓					

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P. McLaughlin	Delta			1		James P. McLaughlin			
ADDITIONAL COMMENTS:				2					
				3		Anna [illegible]	[illegible] 1/31/02		
				4					

Hazardous Material Inspection/Abatement Request

To: Jerry Glassman / Mike Sanders
Statewide Services – Room 275
DPW-Asbestos/Lead Management
165 Capitol Avenue, Htfd., CT 06106

Tel. 860 713-5709
Tel. 860-713-5702
Fax. 860-713-7250

From: David Arute
Facilities Management
DPW- Safety Program Officer
165 Capitol Ave. Hartford, CT. 06106

Tel. 860-713-5661
Fax. 860-713-7262
Email: david.arute@po.state.ct.us

Date: 2-28-03

Project Reference:

Building Name: Mystic Educational Center **DPW Building No:** 16945
Building Address: **240 Oral School Rd. , Mystic, CT 06355**

Project Type:
☒ Abatement
☐ Inspection

☒ Asbestos
☐ Lead
☐ Indoor/Outdoor Air Quality
☐ Other:

☐ Capital (>$50K)
☐ Term (<$50K, or Time Issue)
☐ Not Known Yet

Requested Completion Date Of Inspection/Abatement: When able to schedule with parties.

Type Of Inspection/Abatement Request: (Check all that apply.)

☒ **Asbestos:** ☐ Roof, ☐ Floor Tile, ☐ Ceiling Tile, ☒ Piping, ☐ Transite,
☒ Other: Window Caulking/Glazing ACM

If asbestos in roof, please complete the following:
Bond or Warranty:
Access to roof from:

Scope of Asbestos Abatement: Window glass is broken and needs to be replaced. Caulking around window is very brittle. Window is 55"x 45" and is located in Classroom #130 WHIPPLE BLDG. that is occupied with tenant's clients. This is a Safety Hazard in it's present condition and needs to be fixed.

☐ **Lead:** ☐ Paint, ☐ Piping, ☐ Soil, ☐ Water, ☐ Roofing Material, or ☐ Other:

Please Indicate Funding Source:

☐ **Indoor Air Quality:**
(Describe Briefly)

Please Indicate Funding Source:

Building Area Description: Rm. 130 Whipple Building. Window in classroom.
(Specific Area in Question)

Agency Representative: David Arute - EH&S. Tel. (860) 713-5661
David Grigely – Facilities Management (860) 713-5683

On Site Contact Person: Harold Monroe – DPW Bldg. Supt. (On Site at School) Tel. (860) 250-6034 Cell Phone or (860) 536-4221 Office

A/E Consultant: Tel.

TUNXIS MANAGEMENT COMPANY
ONE LIBERTY SQUARE
P.O. BOX 488
NEW BRITAIN CT 06050-
(860) 223-0153 Fax (860) 224-2140

Work Order No	27374
Call-In Date	02/26/03
Call-In Time	10:58 am
Entered By	EPS
Srvc Provider	HAROLD M

Unit	MYSTIC EDUCATIONAL CENTER 240 A
Address 1	MYSTIC EDUCATIONAL CENTER
Address 2	
Address 3	MYSTIC, CT 06355-1206
Phone	(860) 572-7221
Caller Data	LYNNE SEARLES (860) 572-4953
Addl Info	
Special Instructions	

Scheduled For	Permission To Enter	Classification	Priority Code
02/26/03 12:00 am	YES	MAINTENANCE	MEDIUM

THERE IS A WINDOW IN CLASSROOM # 130 THAT PRESENTLY HAS A LARGE CRACK TAPED WITH DUCK TAPE. THE CAULKING AROUND THIS WINDOW HAS BECOME BRITTLE CAUSING THE WINDOW TO HAVE MOVEMENT DURING WINDY WEATHER. DURING HEAVY RAIN SHOWERS, THE CRACK LEAKS WATER INSIDE THE CLASSROOM. WE ARE CONCERNED THAT DURING A FUTURE WIND STORM, THE WINDOW WILL BREAK AND FAIL INTO THE CLASSROOM CAUSING POSSIBLE INJURIE

Post-it® Fax Note 7671

Date 2/28/03	# of pages ▶ 1
To Dave Arute	From Harold
Co./Dept. DPW	Co. DPW
Phone # 1-860-713-5661	Phone # 536-4221
Fax # 1-860-713-7262	Fax # 1-860-536-4221

Start Time		**...ce Call**	
End Time		**Date**	
Total Time		**...ed By**	
Mileage		**Charge**	

Charge Owner YES NO

New Status (Circle One)

Open	Waiting For Parts	Normal Wear	Crime/Vandalism
Reassign	Pending Completion	Abuse/Misuse	Act of God
Completed/Closed	Other	Defective Matls	Other

Diagnosis (Circle One)

Srvc Provider ____ ___/___/___

Tenant ____ ___/___/___

Dave: This window is in Whipple building and is 55"X45". Classroom were clients are and is a Safety problem.

Harold,

27374

TOTAL P.01

TRANSACTION REPORT

FEB-27-2003 THU 12:58 PM

FOR: DPW.FACILMANAGE 8607137262

RECEIVE

DATE	START	SENDER	PAGES	TIME	NOTE	M#
FEB-27	12:57 PM	8605364221	1	54″	OK	

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC WORKS

March 6, 2003

T. R. Anson
Commissioner

Mr. James Reilly
Petco Insulation Co., Inc.
P.O. Box 26127
Allingtown Station
West Haven, Connecticut 06516-0961

MAR 12 2003

Subject: Project BI-2B-828 (2B-03-09)
Asbestos Removal –Window Glazing, Pick up unused 9x9 tiles
Room #130
Whipple Building, Mystic Education Center
Mystic, CT 06355
(DPW #16945)

Dear Mr. Reilly:

In accordance with our Contract Award 990-A-04-0483-C with your firm for asbestos abatement between April 1, 2000 through March 31, 2002 (extend until March 31, 2003), please arrange a visit to the site and prepare a cost estimate and schedule for asbestos containing material removal. The precise location is to be defined at the time of the visit.

At the time of your visit, a representative of this office, EnviroMed and the agency should be present.

The contact person is Harold Monroe (860)-250-6034 cell
(860)-536-4221 office

When submitting your estimate, please direct it to:
Mike Sanders
DPW-Asbestos/Lead Management
165 Capitol Avenue
Room 275
Hartford, CT 06106

Please reference your estimate to:
Project number BI-2B-828 (2B-03-09), DPW #16945

Sincerely,

Mike Sanders
Statewide Services
Asbestos/Lead Abatement

MS/pw
cc: G. Glassman, DPW
R. Skomro, DPH
L. Cannon/T. Neil, EnviroMed
D. Arute DPW
File #16945
Petco - In Accord Let. Asb. Rmvl.

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
WHIPPLE BUILDING (DPW Building 16947)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: November 2001

DELTA
ENVIRONMENTAL
SERVICES®, INC.

81 Schoolground Road
P.O. Box 564, Branford, CT
(203) 481-7668

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
WHIPPLE BUILDING (DPW Building 16947)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: November 2001

DELTA
ENVIRONMENTAL
SERVICES®, INC.

81 Schoolground Road
P.O. Box 564, Branford, CT
(203) 481-7668

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3.2	Asbestos Analytical Procedures	2
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6.0	Limitations	5

TABLES

3-1 Bulk Sample Summary for Suspect Asbestos-Containing Materials

3-2 Asbestos-Containing Material

3-3 Non-Asbestos-Containing Material

5-1 Asbestos Abatement Cost Estimate

APPENDICES

APPENDIX A - Inventory of Identified Asbestos-Containing Material

APPENDIX B - Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

APPENDIX C - Laboratory and Inspector Accreditations

APPENDIX D - Building Diagrams

1.0 INTRODUCTION

This report summarizes the results of an asbestos and lead inspection conducted by DELTA Environmental Services, Inc. (DELTA) for the Whipple Building (DPW Building Number 16947) at the Mystic Education Center facility at 290 Oral School Road in Mystic, Connecticut. The project consisted of: review of available building records; physical inspection of the building to determine the quantities and locations of asbestos-containing materials (ACM); and bulk sampling of suspected asbestos-containing materials (ACM).

2.0 BUILDING DESCRIPTION

Mystic Education Center is a seven-building campus-type facility. The property consists of approximately 122 acres and 250,000 square feet of building floor space. The Whipple Building is a two-story (with full basement) 24,500± square foot structure. The building was constructed in 1968. The building consists of: offices, classrooms and storage areas in the basement; classrooms, offices and a cafeteria on the first floor; and dormitory rooms on the second floor. The building is heated by a forced hot air system. The building is served by the boiler room in the basement of the Girls' Building. A mechanical attic with air handling equipment is present in the building, accessible by a hatch in the third floor ceiling. Room numbers referred to in this report correspond to the building diagrams in Appendix D.

3.0 ASBESTOS SURVEY

3.1 Asbestos Sampling Procedures

Bulk samples of suspected ACM were collected by James P. McCarthy, P.E., of DELTA, a Connecticut Department of Public Health licensed inspector. Samples were collected using a clean knife or other appropriate tool after first wetting the material to be sampled to limit fiber release.

Samples were placed in dedicated sealable plastic bags and promptly transmitted to the analytical laboratory using strict chain of custody procedures. Sampling was performed in accordance with Environmental Protection Agency protocols, which require a minimum of three negative results in order to establish that a material does not contain asbestos.

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
49	142-666-64	Light Brown 9" Floor Tile	Corridor No. 1 Near Dining Room	Not Analyzed*
50	142-666-65	Mastic From Light Brown 9" Floor Tile	Corridor No. 1 Near Dining Room	11% Chrysotile
51	142-666-66	Gray 9" Floor Tile	Room 165	Not Analyzed*
	142-666-69	Mastic From Above		8% Chrysotile
52	142-666-67	Gray 9" Floor Tile	Room 165	Not Analyzed*
	142-666-70	Mastic From Above		Not Analyzed*
53	142-666-68	Gray 9" Floor Tile	Room 165	Not Analyzed*
54	142-666-71	Mastic From Gray 9" Floor Tile	Room 165	Not Analyzed*
55	1248505	Tan Dot Pattern 9" Floor Tile	Room 201 Connecting Passage	1.50% Chrysotile (Point Count)
56	1248506	Mastic From Tan Dot Pattern 9" Floor Tile	Room 201 Connecting Passage	NAD
57	1248507	Brown 9" Floor Tile	Room 240	3.0% Chrysotile (Point Count)
58	1248508	Brown 9" Floor Tile	Room 240	Not Analyzed*
59	1248509	Brown 9" Floor Tile	Room 233	Not Analyzed*

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
60	1248510	White Dot Pattern 9" Floor Tile	Ground Floor Landing Stairwell 2	2.50% Chrysotile (Point Count)
61	1248511	White Dot Pattern 9" Floor Tile	Ground Floor Landing Stairwell 2	Not Analyzed*
62	1248512	White Dot Pattern 9" Floor Tile	Ground Floor Landing Stairwell 2	Not Analyzed*
63	1248513	White with Brown Specks 9" Floor Tile	Second Floor Landing Stairwell 1	1.50% Chrysotile (Point Count)
64	1248514	Mastic From White with Brown Specks 9" Floor Tile	Second Floor Landing Stairwell 1	10% Chrysotile
80	142-666-102	Cementitious Fitting on Fiberglass Insulated Piping	Corridor Above Susp. Ceiling Near Room 156	NAD
81	142-666-103	Cementitious Fitting on Fiberglass Insulated Piping	Corridor Above Susp. Ceiling Near Room 156	NAD
82	142-666-104	Cementitious Fitting on Fiberglass Insulated Piping	Corridor Above Susp. Ceiling Near Room 156	NAD
83	142-666-105 142-666-108	Tan 9" Dot Pattern Floor Tile Mastic From Above	Corridor Connecting Passage 201	3% Chrysotile NAD
84	142-666-106 142-666-109	Tan 9" Dot Pattern Floor Tile Mastic From Above	Corridor Connecting Passage 201	Not Analyzed* NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
85	142-666-107	Tan 9" Dot Pattern Floor Tile	Corridor Connecting Passage 201	Not Analyzed*
	142-666-110	Mastic From Above		NAD
86	142-666-111	Light Brown 9" Floor Tile	Corridor Near Exit	Not Analyzed*
	142-666-113	Mastic From Above		14% Chrysotile
87	142-666-112	Light Brown 9" Floor Tile	Corridor Near Exit	Not Analyzed*
	142-666-114	Mastic From Above		Not Analyzed*
88	142-666-115	Green 9" Floor Tile	Dining Room 151	Not Analyzed*
	142-666-118	Mastic From Above		12% Chrysotile
89	142-666-116	Green 9" Floor Tile	Dining Room 151	Not Analyzed*
	142-666-119	Mastic From Above		Not Analyzed*
90	142-666-117	Green 9" Floor Tile	Dining Room 151	Not Analyzed*
	142-666-120	Mastic From Above		Not Analyzed*
91	142-666-121	Beige 9" Floor Tile	Dining Room 151	Not Analyzed*
	142-666-124	Mastic From Above		17% Chrysotile

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
92	142-666-122 142-666-125	Beige 9" Floor Tile Mastic From Above	Dining Room 151	Not Analyzed* Not Analyzed*
93	142-666-123 142-666-126	Beige 9" Floor Tile Mastic From Above	Dining Room 151	Not Analyzed* Not Analyzed*
94	142-666-127	Suspended Ceiling Tile 2' X 2' Type 3 Brown Layered Texture Groove Pattern	Ground Floor Corridor No. 1	NAD
95	142-666-128	Suspended Ceiling Tile 2' X 2' Type 3 Brown Layered Texture Groove Pattern	Ground Floor Corridor No. 1	NAD
96	142-666-129	Suspended Ceiling Tile 2' X 2' Type 3 Brown Layered Texture Groove Pattern	Ground Floor Corridor No. 2	NAD
97	1217300	Gray 9" Floor Tile Mastic	Basement Room 23	1.25% Chrysotile (Point Count) 8.25% Chrysotile (Point Count)

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
98	1217301	Beige 12" Floor Tile Mastic	Basement Room 120	NAD 3.50% Chrysotile (Point Count)
99	1217302	Beige 12" Floor Tile Mastic	Basement Room 120	NAD Not Analyzed*
100	1217303	Beige 12" Floor Tile Mastic	Basement Room 120	NAD Not Analyzed*
101	1217304	Glue Dot from Corkboard	Basement Room 120	1.50% Chrysotile (Point Count)
102	1217305	Glue Dot from Corkboard	Basement Room 120	Not Analyzed*
103	1217306	Glue Dot from Corkboard	Basement Room 120	Not Analyzed*
104	1217307	Light Brown 9" Floor Tile Mastic	Corridor Near Room 154	1.75% Chrysotile (Point Count) 10% Chrysotile

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
105	1217308	Green 9" Floor Tile Mastic	Dining Room 155	3.25% Chrysotile (Point Count) 10% Chrysotile
106	1217309	Suspended Ceiling Tile 2' X 4' Brown Interior	Dining Room 155	NAD
107	1217310	Light Brown 9" Floor Tile Mastic	Basement Corridor Near Room 22	2.5% Chrysotile (Point Count) NAD
108	1217311	Beige 9" Floor Tile Mastic	Basement Closet Room 24	3.0% Chrysotile (Point Count) 4.5% Chrysotile (Point Count)
109	1217312	Suspended Ceiling Tile 2' X 2' Type 5 Grey Granular Texture Groove Pattern	Basement Closet Room 24	NAD
110	1217313	Suspended Ceiling Tile 2' X 2' Type 3 Brown Layered Texture Groove Pattern	Basement Closet Room 24	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
111	1217314	Cementitious Fitting on Fiberglass Insulated Piping	Basement Closet Room 24	NAD
112	1222513	Beige 9" Floor Tile Mastic	Kitchenette Room 247	0.50% Chrysotile (Point Count) 10% Chrysotile
113	1222514	Beige 9" Floor Tile	Kitchenette Room 247	0.50% Chrysotile (Point Count)
114	1222515	Beige 9" Floor Tile	Kitchenette Room 247	0.75% Chrysotile (Point Count)
115	1222516	Fibrous Roof Insulation	Room 234	NAD
116	1222517	Fibrous Roof Insulation	Room 234	NAD
117	1222518	Fibrous Roof Insulation	Room 241	NAD
118	1222519	Suspended Ceiling Tile 2' X 2' Type 1 Tan Granular Texture Groove Pattern	Room 240	NAD
119	1222520	Suspended Ceiling Tile 2' X 2' Type 1 Tan Granular Texture Groove Pattern	Room 230	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
120	1222521	Suspended Ceiling Tile 2' X 2' Type 1 Tan Granular Texture Groove Pattern	Room 247	NAD
121	1222522	Suspended Ceiling Tile 2' X 2' Type 2 Light Brown Granular Texture Groove Pattern	Room 240	NAD
122	1222523	Suspended Ceiling Tile 2' X 2' Type 2 Light Brown Granular Texture Groove Pattern	Room 240	NAD
123	1222524	Suspended Ceiling Tile 2' X 2' Type 2 Light Brown Granular Texture Groove Pattern	Room 240	NAD
124	1222525	Suspended Ceiling Tile 2' X 2' Type 3 Brown Layered Texture Groove Pattern	Room 247	NAD
125	1222526	Suspended Ceiling Tile 2' X 2' Type 3 Brown Layered Texture Groove Pattern	Room 233	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
126	1222527	Suspended Ceiling Tile 2' X 2' Type 3 Brown Layered Texture Groove Pattern	Room 233	NAD
127	1222528	Suspended Ceiling Tile 2' X 2' Type 4 Dark Brown Layered Texture Groove Pattern	Room 230	NAD
128	1222529	Suspended Ceiling Tile 2' X 2' Type 4 Dark Brown Layered Texture Groove Pattern	Room 230	NAD
129	1222530	Suspended Ceiling Tile 2' X 2' Type 4 Dark Brown Layered Texture Groove Pattern	Room 230	NAD
130	1222531	Suspended Ceiling Tile 2' X 2' Type 5 Grey Granular Texture Groove Pattern	Room 229	NAD
131	1222532	Suspended Ceiling Tile 2' X 2' Type 5 Grey Granular Texture Groove Pattern	Room 229	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
132	1222533	Suspended Ceiling Tile 2' X 2' Type 6 Brown Fibrous Texture Smooth Face	Second Floor Corridor	NAD
133	1222534	Suspended Ceiling Tile 2' X 2' Type 6 Brown Fibrous Texture Smooth Face	Second Floor Corridor	NAD
134	1222535	Suspended Ceiling Tile 2' X 2' Type 6 Brown Fibrous Texture Smooth Face	Second Floor Corridor	NAD
136	1217294	Window Caulk	Exterior Metal Window	4.25% Chrysotile (Point Count)
137	1217295	Window Caulk	Exterior Metal Window	Not Analyzed*
138	1217296	Window Caulk	Exterior Metal Window	Not Analyzed*
139	1217297	Window Glazing	Exterior Metal Window	4.50% Chrysotile (Point Count)

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
140	1217298	Window Glazing	Exterior Metal Window	Not Analyzed*
141	1217299	Window Glazing	Exterior Metal Window	Not Analyzed*

NOTE: "NAD" INDICATES NO ASBESTOS DETECTED

* EPA protocols consider one positive result as confirmation that a material contains asbestos. If the first sample of a material is found to contain asbestos, no further confirmation is necessary and any additional samples are therefore not analyzed.

3.2 Asbestos Analytical Procedures

Analysis was performed by International Asbestos Testing Laboratories, Inc. (IATL), Mt. Laurel, New Jersey, and Chemscope, Inc., North Haven, Connecticut. Both laboratories are accredited by the National Institute of Standards and Technology accredited laboratory. Analysis was performed using Polarized Light Microscopy (PLM) Method EPA 600. Point counting was used to quantify asbestos content for all samples found to contain less than ten percent asbestos.

3.3 Asbestos Analytical Results

The results of recent bulk sampling performed by DELTA are summarized in Table 3-1. Laboratory data sheets are included in Appendix B.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: light brown 9" floor tile and mastic; gray 9" floor tile and mastic; tan "dot pattern" 9" floor tile (the tile mastic does not contain asbestos); brown 9" floor tile and mastic; white "dot pattern" 9" floor tile and mastic; white with brown specks 9" floor tile and mastic; green 9" floor tile and mastic; beige 9" floor tile and mastic; mastic from beige 12" floor tile (the tile does not contain asbestos); glue material ("glue dots") used to affix bulletin boards to the walls in classroom areas; exterior caulking material on metal windows; and glazing material on metal windows.

The various types of older 9" vinyl floor tile in the building were found to contain between 1.25 and 3.25% chrysotile asbestos. The tile mastic was also found to contain asbestos, with the exception of mastic from the 9" tan "dot pattern" tile, which does not contain asbestos. Mastic from the other types of 9" tile had asbestos contents ranging from 4.5 to 17% chrysotile. The beige 12" tile mastic contains 3.5% chrysotile; the tile itself does not contain asbestos.

Floor tile in the building is generally in fair to good condition, with loose tiles in some areas. Though the tile is unlikely to present a hazard unless it is actively disturbed, any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile (and mastic if applicable) as asbestos.

Glue material ("glue dots") used to affix bulletin boards to the walls in classroom areas was found to contain 1.5% chrysotile asbestos. The glue is hard and is nonfriable. The material is unlikely to release asbestos fibers unless disturbed.

TABLE 3-2: ASBESTOS-CONTAINING MATERIAL
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

HOMOGENEOUS AREA NUMBER	MATERIAL DESCRIPTION	LOCATION	ASBESTOS TYPE AND CONTENT (%)
1	Light Brown 9" Floor Tile	Basement West Corridor, First and Second Floor Corridors, Rooms 4, 5,111-113, 122, 127, 131, 137, 138-142, 145, 151-155, 166, 203, 209, 225	2.5% Chrysotile
2	Mastic From Light Brown 9" Floor Tile	See Above	14% Chrysotile
3	Gray 9" Floor Tile	Rooms 2, 3, 7, 8, 23, 24, 121, 128, 130, 134, 162, 167, 164, 165, 169, 207, 211, 227, 230, 234, 236, 241, 242, 248, 249, 255, 257	1.25% Chrysotile
4	Mastic From Gray 9" Floor Tile	See Above	8.25% Chrysotile
5	Tan 9" Dot Pattern Floor Tile	Rooms 101, 201 (Connecting Passages)	3% Chrysotile
6	Green 9" Floor Tile	Rooms 9, 10, 13, 118, 132, 155	3.25% Chrysotile
7	Mastic From Green 9" Floor Tile	See Above	12% Chrysotile

TABLE 3-2: ASBESTOS-CONTAINING MATERIAL
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

8	Beige 9" Floor Tile	Rooms 119, 123, 124, 233, 237, 251, 254	3.0% Chrysotile
9	Mastic From Beige 9" Floor Tile	See Above	17% Chrysotile
10	White 9" Dot Pattern Floor Tile	Stairwell No. 2	1.5% Chrysotile
11	Mastic From White 9" Dot Pattern Floor Tile	See Above	1.5% Chrysotile
12	Brown 9" Floor Tile	Rooms 17, 18, 21, 22, 231, 233, 234, 239, 240, 244, 246, 247, 252, 254, 255, 258	3.0% Chrysotile
13	Mastic From Brown 9" Floor Tile	See Above	10% Chrysotile
14	White with Brown Specks 9" Floor Tile	Second Floor Corridor Near 207/211, Stairwell No. 1	1.5% Chrysotile
15	Mastic From White with Brown Specks 9" Floor Tile	See Above	10% Chrysotile
16	Mastic From Beige 12" Floor Tile	See Above	3.5% Chrysotile
17	Glue Dot From Corkboard	Classrooms Throughout	1.5% Chrysotile
18	Exterior Window Caulk	Windows Throughout	4.25% Chrysotile
19	Exterior Window Glazing	Windows Throughout	4.5% Chrysotile

NOTE: NAD indicates "No Asbestos Detected"

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL WHIPPLE BUILDING MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
HOMOGENEOUS AREA NUMBER	**MATERIAL DESCRIPTION**	**LOCATION**	**ASBESTOS TYPE AND CONTENT (%)**
20	Mastic From Tan 9" Dot Pattern Floor Tile	See Above	NAD
21	Beige 12" Floor Tile	Room 120	NAD
22	Cementitious Mudded Fittings on Fiberglass Insulated Plumbing	Throughout	NAD
23	Suspended Ceiling Tile 2' X 2' Type 1 Tan Granular Texture Groove Pattern	Rooms 230, 240, 247	NAD
24	Suspended Ceiling Tile 2' X 2' Type 2 Light Brown Granular Texture Groove Pattern	Room 240	NAD
25	Suspended Ceiling Tile 2' X 2' Type 3 Brown Layered Texture Groove Pattern	Throughout much of Building	NAD

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL WHIPPLE BUILDING MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
26	Suspended Ceiling Tile 2' X 2' Type 4 Dark Brown Layered Texture Groove Pattern	Room 230	NAD
27	Suspended Ceiling Tile 2' X 2' Type 5 Grey Granular Texture Groove Pattern	Rooms 24, 229	NAD
28	Suspended Ceiling Tile 2' X 2' Type 6 Brown Fibrous Texture Smooth Face	Second Floor Corridor	NAD
29	Suspended Ceiling Tile 2' X 4'	Rooms 22, 155	NAD
30	Fibrous Roof Insulation	Throughout	NAD
NOTE: NAD indicates "No Asbestos Detected"			

Exterior window glazing and caulking material was found to contain 4.5% and 4.25% chrysotile asbestos, respectively. The material is hard and is nonfriable. The material is unlikely to release asbestos fibers under normal conditions, but would have to be addressed if the windows are replaced.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

Domestic hot and cold water piping throughout the building is insulated with fiberglass. The pipe elbows have cementitious fittings which were found not to contain asbestos.

4.0 DISCUSSION AND RECOMMENDATIONS

The Whipple Building is a two-story (with full basement) 24,500± square foot structure. The building was constructed in 1968. The building consists of: offices, classrooms and storage areas in the basement; classrooms, offices and a cafeteria on the first floor; and dormitory rooms on the second floor. The building is heated by a forced hot air system. The building is served by the boiler room in the basement of the Girls' Building.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: light brown 9" floor tile and mastic; gray 9" floor tile and mastic; tan "dot pattern" 9" floor tile (the tile mastic does not contain asbestos); brown 9" floor tile and mastic; white "dot pattern" 9" floor tile and mastic; white with brown specks 9" floor tile and mastic; green 9" floor tile and mastic; beige 9" floor tile and mastic; mastic from beige 12" floor tile (the tile does not contain asbestos); glue material ("glue dots") used to affix bulletin boards to the walls in classroom areas; exterior caulking material on metal windows; and glazing material on metal windows.

The various types of older 9" vinyl floor tile in the building were found to contain between 1.25 and 3.25% chrysotile asbestos. The tile mastic was also found to contain asbestos, with the exception of mastic from the 9" tan "dot pattern" tile, which does not contain asbestos. Mastic from the other types of 9" tile had asbestos contents ranging from 4.5 to 17% chrysotile. The beige 12" tile mastic contains 3.5% chrysotile; the tile itself does not contain asbestos.

Floor tile in the building is generally in fair to good condition, with loose tiles in some areas. Though the tile is unlikely to present a hazard unless it is actively disturbed, any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile (and mastic if applicable) as asbestos.

Glue material ("glue dots") used to affix bulletin boards to the walls in classroom areas was found to contain 1.5% chrysotile asbestos. The glue is hard and is nonfriable. The material is unlikely to release asbestos fibers unless disturbed.

Exterior window glazing and caulking material was found to contain 4.5% and 4.25% chrysotile asbestos, respectively. The material is hard and is nonfriable. The material is unlikely to release asbestos fibers under normal conditions, but would have to be addressed if the windows are replaced.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

Domestic hot and cold water piping throughout the building is insulated with fiberglass. The pipe elbows have cementitious fittings which were found not to contain asbestos.

5.0 ESTIMATED COST FOR ASBESTOS ABATEMENT

The estimated cost for asbestos abatement shown in Table 5-1 is provided solely for establishing removal and replacement costs for the DPW asbestos inventory database. The abatement estimate utilizes fixed unit costs for specific item descriptions. Abatement projects are to be estimated with respect to individual project requirements or conditions.

The estimated cost for abatement of the building is $130,000. It should be noted that the cost estimate does not include removal of roofing materials or window compound. The cost estimate utilizes standard unit prices for removal of different types of asbestos-containing materials. When an actual asbestos abatement project is planned, a more precise estimate can be developed based on the specific work scope.

TABLE 5-1

WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
ASBESTOS ABATEMENT COST ESTIMATE

Item Description	Quantity	Unit	Unit Cost	Subtotal Cost
REMOVAL				
Misc. Material	19,688	SF	$5.00	$98,440
SUB TOTAL REMOVAL				$98,440
REPLACEMENT				
Thermal System Insulation		SF	$10.00	$0,00
Thermal System Insulation		LF	$15.00	$0,00
Surfacing Material		SF	$10.00	$0,00
Miscellaneous Material		LF	N/A	
Miscellaneous Material		SF	N/A	
SUB TOTAL REPLACEMENT				$0,00
Construction				$98,440
Consultant (20%)				$19,688
Contingency (10%)				$11,813
TOTAL				$129,941
ABATEMENT ESTIMATE				**$130,000**

6.0. LIMITATIONS

The survey has the following limitations:

- DELTA's survey included an evaluation for the presence of asbestos-containing insulation on electrical equipment in the building. The inspection included building wiring, whips and fixtures. No suspect insulation was found. The inspection was designed to cover a representative portion of the building, since it was not feasible to examine all fixtures, junction boxes, etc.

- The survey did not utilize "destructive" sampling methods, and therefore may not have identified all of the asbestos-containing materials in the building. Specifically, the inspection did not include areas enclosed by walls or ceilings, unless these spaces could be accessed without damage.

- The survey did not include destructive sampling of furnishings such as chalkboards, corkboards, fire doors and benchtops.

- The survey attempted to access and identify asbestos-containing materials associated with HVAC and mechanical systems. However, such systems were not dismantled during the inspection. It is possible that boilers, furnaces, fan units and other devices may contain gaskets and other interior asbestos material which can only be accessed through dismantling them. Care should be taken to avoid the accidental disturbance of asbestos during maintenance or repair work on such devices.

APPENDIX A

Inventory of Identified Asbestos-Containing Material

WHIPPLE HALL
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
BASEMENT													
WEST CORR.	ALONG ROOMS 2-24	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	450								
WEST CORR.	ALONG ROOMS 2-24	17	GLUE DOTS FROM BULLETIN BOARD	2%									
2 AND 8	OFFICE	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	330							6	
3	CLOSET	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	15								
4	CLOSET	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	15								
5	OFFICE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	210								
6	BATHROOM												
7	CLOSET	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	25								
9 AND 13	STORAGE	6, 7	9" GREEN FLOOR TILE/MASTIC	3.25% / 12%	230								
10	OFFICE	6, 7	9" GREEN FLOOR TILE/MASTIC	3.25% / 12%	100								
11	BOYS' BATHROOM												
12	ELEV. MACHINE ROOM												
14	CUSTODIAN CLOSET												
15	GIRLS' BATHROOM												
16	ELEVATOR												
17 AND 22	CLASSROOM	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	830								
17 AND 22	CLASSROOM	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
18	OFFICE	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	120								
18	OFFICE	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
19	BATHROOM												
20	BATHROOM												
21	HOUSEKEEPER	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	120								
23	OFFICE	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	150								
23	OFFICE	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
24	CLOSET	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	50								

WHIPPLE HALL
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
FIRST FLOOR													
101	CONNECTING PASSAGE	5	9" TAN DOT PATTERN FLOOR TILE	3%	320								
EAST CORRIDOR	ALONG ROOMS 111-130	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	750								
EAST CORRIDOR	ALONG ROOMS 111-130	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
111	OFFICE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	400								
111	OFFICE	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
112	OFFICE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	400								
112	OFFICE	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
113	STORAGE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	40								
114	BATHROOM												
115	BATHROOM												
116	BATHROOM												
117	BATHROOM												
118	STORAGE	6, 7	9" GREEN FLOOR TILE/MASTIC	3.25% / 12%	150								
119	PLAY ROOM	8, 9	9" BEIGE FLOOR TILE/MASTIC	3.0% / 4.5%	210								
120	CLASSROOM	16	12" BEIGE FLOOR TILE/MASTIC	0% / 3.5%	440								
120	CLASSROOM	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
121	CLASSROOM	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	440								
121	CLASSROOM	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
122	STORAGE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	40								
123-124	CLOSET	8, 9	9" BEIGE FLOOR TILE/MASTIC	3.0% / 4.5%	80								
125	BATHROOM												
126	BATHROOM												
127	STORAGE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	40								
128	CLASSROOM	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	440								
128	CLASSROOM	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
130	LOUNGE	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	440								
130	LOUNGE	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
131	LAMINATING ROOM	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	40								
132	CUSTODIAN STORAGE	6, 7	9" GREEN FLOOR TILE/MASTIC	3.25% / 12%	20								
133	CUSTODIAN												CARPET IS PRESENT OVER TILE
134	UV DARK ROOM	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	150								
135	BATHROOM												
136	BATHROOM												
137	CLASSROOM	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	440								
137	CLASSROOM	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
138	FIRST AID	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	45								
139-140	STORAGE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	60								
141	CLASSROOM	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	440								
141	CLASSROOM	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
142	OFFICE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	440								
142	OFFICE	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
143	BATHROOM												
144	BATHROOM												

WHIPPLE HALL
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
145	STORAGE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	40								
UPPER LEVEL													
151	VESTIBULE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	25								
152	ENTRANCE FOYER	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	80								
154	DISHWASHING	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	60								
155	DINING ROOM	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	440								
155	DINING ROOM	6, 7	9" GREEN FLOOR TILE/MASTIC	3.25% / 12%	440								
156	STORAGE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	50								
157	ELEVATOR												
158	STORAGE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	25								
159	CUSTODIAN	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	25								
160	BATHROOM												
161	BATHROOM												
162, 167	OFFICE	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	200								
162, 167	OFFICE	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
CORR. No. 1	CORR. NEAR RM. 154	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	270								
CORR. No. 2	CORR. NEAR RM. 155	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	190								
CORR. No. 2	CORR. NEAR RM. 155	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
CORR. No. 3	CORR. NEAR 157-165	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	175								
163	OFFICE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	200								
164-165, 169	OFFICE	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	610								
165	OFFICE	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
166	CUSTODIAN	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	20								
168	BATHROOM												

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ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
SECOND FL.													
	CONNECTING PASSAGE	5	9" TAN DOT PATTERN FLOOR TILE/MASTIC	3% / 0%	230								
201/207	WORKSHOP AREA	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	800								
202/213	WORKSHOP AREA	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	800								
203	WORKSHOP AREA	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	1400								
203	WORKSHOP AREA	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
204	CUSTODIAN												
205	BATHROOM												
206, 220-221	BATHROOM												
208	OFFICE	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	400								
209	WORKSHOP AREA	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	1400								
209	WORKSHOP AREA	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
211	OFFICE	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	400								
CORRIDOR	CORR. NEAR 207/211	14, 15	9" WHITE FLOOR TILE/MASTIC	1.5% / 10%	110								
214, 218-219	BATHROOM												
215	BATHROOM												
216	CUSTODIAN												
UPPER LEVEL													
CORRIDOR	CORR. ALONG 225-255	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	450								
225	LOBBY	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	200								
227	CLOSET	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	10								
229	CUSTODIAN												
230	BEDROOM	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	180								
231	CLOSET	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	10								
232	BATHROOM												
233	BEDROOM	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	180								
233	KITCHENETTE	8, 9	9" BEIGE FLOOR TILE/MASTIC	3.0% / 4.5%	20								
234	BEDROOM	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	180								
234	KITCHENETTE	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	20								
235	BATHROOM												
236	CLOSET	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	10								
237	KITCHENETTE	8, 9	9" BEIGE FLOOR TILE/MASTIC	3.0% / 4.5%	20								
238	BATHROOM												
239	CLOSET	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	10								
240	BEDROOM	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	180								
241	BEDROOM	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	180								
242	CLOSET	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	10								
243	BATHROOM												
244	KITCHENETTE	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	20								
245	BATHROOM												
246	CLOSET	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	10								
247	BEDROOM	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	180								
248	BEDROOM	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	180								

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249	CLOSET	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	10								
250	BATHROOM												
251	KITCHENETTE	8, 9	9" BEIGE FLOOR TILE/MASTIC	3.0% / 4.5%	20								
252	CLOSET	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	10								
253	BATHROOM												
254	BEDROOM	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	180								
254	KITCHENETTE	8, 9	9" BEIGE FLOOR TILE/MASTIC	3.0% / 4.5%	20								
255	BEDROOM	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	180								
255	KITCHENETTE	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	20								
256	BATHROOM												
257	CLOSET	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	10								
258	KITCHENETTE	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	20								
MECH. ATTIC	MECH. ATTIC												
STAIRWELLS													
STAIRWELL NO. 1	GROUND FL. LANDING	14, 15	9" WHITE FLOOR TILE/MASTIC	1.5% / 10%	120								SOME LOOSE TILES PRESENT
	FIRST FL. LANDING	14, 15	9" WHITE FLOOR TILE/MASTIC	1.5% / 10%	50								
	SECOND FL. LANDING	14, 15	9" WHITE FLOOR TILE/MASTIC	1.5% / 10%	70								
STAIRWELL NO. 2	GROUND FL. LANDING	10, 11	9" WHITE DOT PATTERN FL. TILE/MASTIC	2.5% / 10%	120								

APPENDIX B

Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-59 Gray fibrous 2x4 suspended ceiling tile () / 44-Kitchen Area Near G15 Above Ceiling	*No Asbestos Detected* *10% Non- Fibrous Particles* *40% Cellulose* *50% Mineral Wool*
142-666-60 Gray fibrous 2x4 suspended ceiling tile () / 45-Kitchen Area Near G15 Above Ceiling	*No Asbestos Detected* *10% Non- Fibrous Particles* *40% Cellulose* *50% Mineral Wool*
142-666-61 Gray fibrous 2x4 suspended ceiling tile () / 46-Kitchen Area Near G15 Above Ceiling	*No Asbestos Detected* *10% Non- Fibrous Particles* *40% Cellulose* *50% Mineral Wool*
142-666-62 White hard plaster layer (on gray granular plaster layer) / 47-Stairwell Landing to Basement Kitchen Area	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-63 Gray granular plaster layer (from under sample #62) / 48-Stairwell Landing to Basement Kitchen Area	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
142-666-64 Light brown hard 9x9 floor tile (on brown and black mastic) / 49-Wipple Corridor #1 Near Dining Room	*Not Analyzed*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-65 Brown and black mastic (from under sample #64) / 50-Wipple Corridor #1 Near Dining Room	*11% Chrysotile Asbestos* *26% Non- Fibrous Particles* *63% Volatile on Ignition*
142-666-66 Hard gray 9x9 floor tile (on black mastic) / 51-Wipple Room 165	*Not Analyzed*
142-666-67 Hard gray 9x9 floor tile (on black mastic) / 52-Wipple Room 165	*Not Analyzed*
142-666-68 Hard gray 9x9 floor tile (on black mastic) / 53-Wipple Room 165	*Not Analyzed*
142-666-69 Black mastic (from under sample #66) / 51-Wipple Room 165	*8% Chrysotile asbestos* *17% Non- Fibrous Particles* *75% Volatile on Ignition*
142-666-70 Black mastic (from under sample #67) / 52-Wipple Room 165	*Not Analyzed*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-71 Black mastic (from under gray 9x9 floor tile) / 54-Wipple Room 165	*Not Analyzed*
142-666-72 White hard plaster layer (on light gray granular plaster layer) / 55-Girl's Building Second Floor Corridor	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-73 Light gray granular plaster layer (from under sample #72) / 56-Girl's Building Second Floor Corridor	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*
142-666-74 White hard plaster layer (on light gray granular plaster layer) / 57-Girl's Building Basement	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-75 Light gray granular plaster layer (from under sample #74) / 58-Girl's Building Basement	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*
142-666-76 White hard plaster layer (on light gray granular plaster layer) / 59-Administration Building Stairs to Basement Near A-B	*No Asbestos Detected* *100% Non- Fibrous Particles*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-101 Light gray granular plaster layer (from under sample #100) / 79-G104	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*
142-666-102 Light gray crumbly pipe fitting (on fiberglass insulation) / 80-Whipple Corridor Above Ceiling Near 156	*No Asbestos Detected* *55% Non- Fibrous Particles* *45% Mineral Wool* *<1% Cellulose*
142-666-103 Light gray crumbly pipe fitting (on fiberglass insulation) / 81-Whipple Corridor Above Ceiling Near 156	*No Asbestos Detected* *55% Non- Fibrous Particles* *45% Mineral Wool* *<1% Cellulose*
142-666-104 Light gray crumbly pipe fitting (on fiberglass insulation) / 82-Whipple Corridor Above Ceiling Near 156	*No Asbestos Detected* *55% Non- Fibrous Particles* *45% Mineral Wool* *<1% Cellulose*
142-666-105 Hard gray 9x9 floor tile with black dot pattern (on black mastic) / 83-Whipple Corridor Connecting Passage	*3% Chrysotile Asbestos* *72% Non- Fibrous Particles* *25% Volatile on Ignition*
142-666-106 Hard gray 9x9 floor tile with black dot pattern (on black mastic) / 84-Whipple Corridor Connecting Passage	*Not Analyzed*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-107 Hard gray 9x9 floor tile with black dot pattern (on black mastic) / 85-Whipple Corridor Connecting Passage	*Not Analyzed*
142-666-108 Black mastic (from under sample #105) / 83-Whipple Corridor Connecting Passage	*No Asbestos Detected* *19% Non- Fibrous Particles* *81% Volatile on Ignition*
142-666-109 Black mastic (from under sample #106) / 84-Whipple Corridor Connecting Passage	*No Asbestos Detected* *28% Non- Fibrous Particles* *72% Volatile on Ignition*
142-666-110 Black mastic (from under sample #107) / 85-Whipple Corridor Connecting Passage	*No Asbestos Detected* *18% Non- Fibrous Particles* *82% Volatile on Ignition*
142-666-111 Light brown hard 9x9 floor tile (on brown and black mastic) / 86-Wipple Corridor Near Exit	*Not Analyzed*
142-666-112 Light brown hard 9x9 floor tile (on brown and black mastic) / 87-Wipple Corridor Near Exit	*Not Analyzed*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-113 Brown and black mastic (from under sample #111) / 86-Wipple Corridor Near Exit	*14% Chrysotile Asbestos* *7% Non- Fibrous Particles* *79% Volatile on Ignition*
142-666-114 Brown and black mastic (from under sample #112) / 87-Wipple Corridor Near Exit	*Not Analyzed*
142-666-115 Hard green 9x9 floor tile (on black mastic) / 88-Wipple Cafeteria	*Not Analyzed*
142-666-116 Hard green 9x9 floor tile (on black mastic) / 89-Wipple Cafeteria	*Not Analyzed*
142-666-117 Hard green 9x9 floor tile (on black mastic) / 90-Wipple Cafeteria	*Not Analyzed*
142-666-118 Black mastic (from under sample #115) / 88-Wipple Cafeteria	*12% Chrysotile Asbestos* *10% Non- Fibrous Particles* *78% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-119 Black mastic (from under sample #116) / 89-Wipple Cafeteria	*Not Analyzed*
142-666-120 Black mastic (from under sample #117) / 90-Wipple Cafeteria	*Not Analyzed*
142-666-121 Hard beige 9x9 floor tile (on black mastic) / 91-Wipple Cafeteria	*Not Analyzed*
142-666-122 Hard beige 9x9 floor tile (on black mastic) / 92-Wipple Cafeteria	*Not Analyzed*
142-666-123 Hard beige 9x9 floor tile (on black mastic) / 93-Wipple Cafeteria	*Not Analyzed*
142-666-124 Black mastic (from under sample #121) / 91-Wipple Cafeteria	*17% Chrysotile Asbestos* *9% Non- Fibrous Particles* *74% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-125 Black mastic (from under sample #122) / 92-Wipple Cafeteria	*Not Analyzed*
142-666-126 Black mastic (from under sample #123) / 93-Wipple Cafeteria	*Not Analyzed*
142-666-127 Gray fibrous 2x2 suspended ceiling tile () / 94-Wipple Corridor	*No Asbestos Detected* *15% Non- Fibrous Particles* *55% Mineral Wool* *30% Cellulose*
142-666-128 Gray fibrous 2x2 suspended ceiling tile () / 95-Wipple Corridor	*No Asbestos Detected* *15% Non- Fibrous Particles* *55% Mineral Wool* *30% Cellulose*
142-666-129 Gray fibrous 2x2 suspended ceiling tile () / 96-Wipple Corridor	*No Asbestos Detected* *15% Non- Fibrous Particles* *55% Mineral Wool* *30% Cellulose*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings

AIHA Bulk Asbestos Proficiency Analytical Testing (PAT) Program. PAT Proficient Lab #100134
Accreditation by the National Institute of Standards and Technology/National Voluntary Lab Accreditation Program (NVLAP) does not imply endorsement by this Federal Agency.
This report pertains only to the samples tested and may not be reproduced in part.
The scope of Accreditation referenced in this report pertains to bulk asbestos analysis by PLM.
Connecticut Approved Environmental Lab PH 0581
See test parameters on reverse side of this report.

Signature (if applicable)	Signature (if applicable)	*Authorized Signature:*	or	*Authorized Signature:*
Analyst	Inspector	*Ronald D. Arena* *Director*		*Suzanne Cristante* *QA Coordinator*

NVLAP ACCREDITED LAB# 101061-0

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
43	Pipe Insulation							Kitchen Area Near G15 above ceiling				
44	2 x 4 Suspended Ceiling Tile											
45												
46												
47	Wall plaster top coat						No Asbestos	Stairwell landing to basement Kitchen Area				
48	Wall plaster brown coat						No Asbestos					
49	Light Brown 9" Floor Tile						Not Analyzed.	Wheeler Corridor No. 1 Near Dining Rm				
50	Mastic from Light brown 9" Floor Tile						11% Chrysotile Asbestos					
51	Gray 9" Floor Tile						Not Analyzed	Room 165 Wheeler				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Palucki	9-19-00	1:00p
ADDITIONAL COMMENTS:				2					
				3					
				4					

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ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
S2	Gray 9" Floor Tile							Room 165 Whipple				
S3	↓							↓				
S4	Mastic From Gray 9" Floor Tile						8% Chrysotile Asbestos					
S5	Wall Plaster Top Coat							Girls' Building 2nd Floor Corridor				
S6	Wall Plaster Brown Coat							↓				
S7	Wall Plaster Top Coat						No Asbestos	Girls' Building Basement				
S8	Wall Plaster Brown Coat						No Asbestos	↓				
S9	Wall Plaster Top Coat						No Asbestos	Admin. Bldg. Stairs to Basement Near A-B				
S10	Wall Plaster Brown Coat						No Asbestos!	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Aci, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Paturelli	9-19-00	1:00
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D 97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3
79	Ceiling plaster both layers							G 104			
80	Pipe fitting on fiberglass insulation						No Asbestos Detected.	Whipple corridor above ceiling near 156			
81	↓							↓			
82	↓							↓			
83	Tan 9" Dot pattern floor tile						3% Chrysotile Asbestos	Whipple corridor connecting passage			
84	↓							↓			
85	↓							↓			
86	Light brown 9" floor tile							Whipple corridor near exit			
87	↓							↓			

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Aci
O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patterson	9-19-00	1:00
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D 97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
88	Green 9" Floor Tile							whiggle cafeteria				
89	↓							↓				
90	↓							↓				
91	Beige 9" Floor Tile							↓				
92	↓							↓				
93	↓							↓				
94	2x2' Susp. Ceiling Tile							whiggle corridor				
95	↓							↓				
96	↓							↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Aci, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patucelli	9-19-00	1:00p
ADDITIONAL COMMENTS:				2					
				3					
				4					

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEduCtr;WhippleBldg,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248505
Client No.: 55
Material Description: Grey Floor Tile; 9"
Location: Room 201 Connecting Passage

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.50	Chrysotile	None Detected	None Detected	PC 98.50

Lab No. 1248506
Client No.: 56
Material Description: Black Mastic
Location: A/W9" Tile; Room 201 Connecting Passage

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1248507
Client No.: 57
Material Description: Tan Floor Tile; 9"
Location: Room 240

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.0	Chrysotile	None Detected	None Detected	97

No Mastic

Lab No. 1248508
Client No.: 58
Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____

Frank B. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEduCtr;WhippleBldg,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248509
Client No.: 59
Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1248510
Client No.: 60
Material Description: White Floor Tile; 9"
Location: Ground Floor Landing Stairwell 2

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.50	Chrysotile	None Detected	None Detected	PC 97.50
No Mastic				

Lab No. 1248511
Client No.: 61
Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1248512
Client No.: 62
Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____

Frank B. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEduCtr;WhippleBldg,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248513
Client No.: 63

Material Description: White Floor Tile; 9"
Location: 2nd Floor Landing Stairwell 1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.50	Chrysotile	None Detected	None Detected	PC 98.50
No Mastic				

Lab No. 1248514
Client No.: 64

Material Description: Black Mastic
Location: 2nd Floor Landing A/W9"Tile;Stairwell1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	None Detected	None Detected	90

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____
Frank E. Ehrenfeld, III
Laboratory Director

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Whipple Building Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TASER NUMBER AND CHECK 1	2	3	4
55	9" Tan Dot Pattern Floor Tile					1248505		Room 201 Connecting Passage				
56	Mastic From Above					1248506		↓				
57	9" Brown Floor Tile					1248507	Positive Stop	Room 240				
58	9" Brown Floor Tile					1248508	↓	Room 2#0				
59	9" Brown Floor Tile					1248509		Room 233				
60	9" White Dot Pattern Floor Tile					1248510	Positive Stop	Ground Floor Landing - Stairwell 2				
61	↓					1248511	↓	↓				
62	↓					1248512						
63	9" White Floor Tile with Brown Specks					1248513		Second Floor Landing Stairwell 1				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
Jerome P. Melatto	Delta	3/26/01	2:00 pm	1	1-9	Jerome P. Melatto			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

APR. 2.2001 12:24PM

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

APR. 2.2001 12:24PM NO. 287 P. 21/21

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Whipple Building Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well; O = Outfall; WO = Waste Oil; RO = Run Off; B = Bottom Sediment; SW = Sewage; SG = Sludge; S = Soil; R = River/Stream; LF = Landfill; WW = Wastewater; L = Lake/Ocean; X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
64	9" white floor tile mastic				1248514			Second floor landing staircase 1				

Container Codes: P = Plastic; E = EPA VIAL; G = Glass; A = Amber Glass; B = Bacteria Bottle

Preservative Codes: I = Iced; F = Filtered; N = Nitric Acid (HNO_3); H = Hydrochloric Acid (HCl); S = Sodium Hydroxide (NaOH); T = Sodium Thiosulfate; F = Sulfuric Acid; O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James A Melotto	Delta	3/26/01	2:00 pm	1	10	James A Melotto			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217300 **Material Description:** Grey Floor Tile
Client No.: 97 **Location:** Black Mastic Room 23

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.25	Chrysotile	None Detected	None Detected	PC 98.75

Lab No. 1217300 **Material Description:** Grey Floor Tile
Client No.: 97 **Location:** Black Mastic Room 23

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 8.25	Chrysotile	None Detected	None Detected	PC 91.75
Black Mastic				
From Above				

Lab No. 1217301 **Material Description:** White Floor Tile
Client No.: 98 **Location:** Black Mastic Room 120

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1217301 **Material Description:** White Floor Tile
Client No.: 98 **Location:** Black Mastic Room 120

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.50	Chrysotile	None Detected	None Detected	PC 96.5
Black Mastic				
From Above				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Thom Snyder

Date: JAN 31 2001

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217302 **Material Description:** White Floor Tile
Client No.: 99 **Location:** Room 120

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Mastic Not Analyzed

Lab No. 1217303 **Material Description:** White Floor Tile
Client No.: 100 **Location:** Room 120

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Mastic Not Analyzed

Lab No. 1217304 **Material Description:** Brown Mastic
Client No.: 101 **Location:** Room 120

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.50	Chrysotile	None Detected	None Detected	PC 98.50

Lab No. 1217305 **Material Description:** Sample Not Analyzed
Client No.: 102 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or ony agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Thom Snyder

Date: JAN 31 2001

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217306 **Material Description:** Sample Not Analyzed
Client No.: 103 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1217307 **Material Description:** Grey Floor Tile
Client No.: 104 **Location:** Black Mastic CorridorNearRoom154

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.75	Chrysotile	None Detected	None Detected	PC 98.25

Lab No. 1217307 **Material Description:** Grey Floor Tile
Client No.: 104 **Location:** Black Mastic CorridorNearRoom154

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	None Detected	None Detected	90
Black Mastic				
From Above				

Lab No. 1217308 **Material Description:** Green Floor Tile
Client No.: 105 **Location:** Black Mastic Dining Room 155

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.25	Chrysotile	None Detected	None Detected	PC 96.75

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Thom Snyder

Date: JAN 31 2001

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217308 **Material Description:** Green Floor Tile
Client No.: 105 **Location:** Black Mastic Dining Room 155

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	None Detected	None Detected	90
Black Mastic				
From Above				

Lab No. 1217309 **Material Description:** Tan/WhiteCeilingTile
Client No.: 106 **Location:** Dining Room 155

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	50	Mineral Wool	15
		35	Cellulose	

Lab No. 1217310 **Material Description:** Tan Floor Tile
Client No.: 107 **Location:** Tan Mastic CorridorNearRoom22

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.5	Chrysotile	None Detected	None Detected	PC 97.5

Lab No. 1217310 **Material Description:** Tan Floor Tile
Client No.: 107 **Location:** Tan Mastic CorridorNearRoom22

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Tan Mastic				
From Above				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Thom Snyder

Date: JAN 3 2001

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217311 **Material Description:** Green Floor Tile
Client No.: 108 **Location:** Yellow/Black Mixed Mastic; Room24

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.0	Chrysotile	None Detected	None Detected	97

Lab No. 1217311 **Material Description:** Green Floor Tile
Client No.: 108 **Location:** Yellow/Black Mixed Mastic; Room24

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 4.5	Chrysotile	None Detected	None Detected	PC 95.5
Yellow/Black Mixed Mastic; From Above				

Lab No. 1217312 **Material Description:** Grey/White
Client No.: 109 **Location:** Ceiling Tile SalientArea;Room24

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	80	Mineral Wool	20

Lab No. 1217313 **Material Description:** Tan/WhiteCeilingTile
Client No.: 110 **Location:** Room 24

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	25
		35	Mineral Wool	

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Thom Snyder

Date: 2001

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217314
Client No.: 111

Material Description: Grey Insulation
Location: Room 24

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	25	Mineral Wool	75

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Thom Snyder

Date: JAN 31 2001

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Whipple Bldg.

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
97	Gray 9" Floor Tile				121	7300	Asbestos PLM EPA 600	Room 23				
98	Beige 12" Floor Tile				121	7301	Positive stop	Room 120				
99	↓				121	7302	↓	↓				
100	↓				121	7303	↓	↓				
101	Glue Dot From Cardboard				121	7304	Positive stop	↓				
102	↓				121	7305	↓	↓				
103	↓				121	7306	↓	↓				
104	Light Brown 9" Floor Tile				121	7307		Corridor Near Room 154				
105	Green 9" Floor Tile				121	7308		Dining Room 155				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME
James R Melanthe	Delta		

TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
1		James R Melanthe			
2					
3	Analyzed: [signature] 1/31/00				
4					

ADDITIONAL COMMENTS:

LGS 1/30

JAN 26 2001

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center
PROJECT LOCATION: Mystic, CT Whipple Bldg
PROJECT NUMBER: D97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
106	2x4 Suspended Ceiling Tile				12	17309	Asbestos PLM EPA 600	Dining Room 155				
107	9" Light Brown Floor Tile				12	17310		Corridor Near Room 22				
108	9" Beige Floor Tile				12	17311		Closet Room 24				
109	2x4 Suspended Ceiling Tile Gray Body				12	17312		Salient Area Room 24				
110	2x4 Suspended Ceiling Tile Brown Body				12	17313		Room 24				
111	Pipe Fitting on Fiberglass Insul.				12	17314		↓				

Container Codes: P = Plastic E = EPA VIAL G = Glass A = Amber Glass B = Bacteria Bottle
Preservative Codes: I = Iced F = Filtered N = Nitric Acid (HNO_3) H = Hydrochloric Acid (HCl) S= Sodium Hydroxide (NaOH) T = Sodium Thiosulfate F = Sulfuric Acid
O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
ADDITIONAL COMMENTS:				2					
				3					
				4					

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/20/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222513 **Material Description:** Lt.Brown Floor Tile
Client No.: 112 **Location:** Black Mastic Room247; Kitchenette

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.50	Chrysotile	None Detected	None Detected	PC 99.5

Lab No. 1222513 **Material Description:** Lt.Brown Floor Tile
Client No.: 112 **Location:** Black Mastic Room247; Kitchenette

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	None Detected	None Detected	90

Black Mastic
From Above

Lab No. 1222514 **Material Description:** Lt.Brown Floor Tile
Client No.: 113 **Location:** Room247; Kitchenette 9"

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.50	Chrysotile	None Detected	None Detected	PC 99.5

Mastic Not Analyzed

Lab No. 1222515 **Material Description:** Lt.Brown Floor Tile
Client No.: 114 **Location:** Room247; Kitchenette 9"

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.75	Chrysotile	None Detected	None Detected	PC 99.25

Mastic Not Analyzed

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith, III.

Date: FEB 0 2001 Vane G. Smith, III, AIHA-AAR 4719

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

* **Lab No.** 1222516 **Material Description:** White Non Fibrous
Client No.: 115 **Location:** Room 234

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

* **Lab No.** 1222517 **Material Description:** White Non Fibrous
Client No.: 116 **Location:** Room 234

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

* **Lab No.** 1222518 **Material Description:** White Non Fibrous
Client No.: 117 **Location:** Room 241

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1222519 **Material Description:** Grey Ceiling Tile
Client No.: 118 **Location:** Room 240 2x2; Type 1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	55	Cellulose	35
		10	Fibrous Glass	

* Different material than indicated on Sample Log/Description.

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith, III

Date: FEB 2001 Vane G. Smith, III, AIHA-AAR 4719

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222520 **Material Description:** Grey Ceiling Tile
Client No.: 119 **Location:** Room 230 2x2; Type 1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Cellulose	35
		20	Fibrous Glass	

Lab No. 1222521 **Material Description:** Grey Ceiling Tile
Client No.: 120 **Location:** Room 247 2x2; Type 1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	55	Cellulose	35
		10	Fibrous Glass	

Lab No. 1222522 **Material Description:** Grey Ceiling Tile
Client No.: 121 **Location:** Room 240 2x2; Type 2

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	35	Cellulose	40
		25	Fibrous Glass	

Lab No. 1222523 **Material Description:** Grey Ceiling Tile
Client No.: 122 **Location:** Room 240 2x2; Type 2

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	35	Cellulose	40
		25	Fibrous Glass	

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith III
Vane G. Smith, III, AIHA-AAR 4719

Date: FEB 0 9 2001

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222524 **Material Description:** Grey Ceiling Tile
Client No.: 123 **Location:** Room 240 2x2; Type 2

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	35	Cellulose	40
		25	Fibrous Glass	

Lab No. 1222525 **Material Description:** Brown Ceiling Tile
Client No.: 124 **Location:** Room 247 2x2; Type 3

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	20
		50	Fibrous Glass	

Lab No. 1222526 **Material Description:** Brown Ceiling Tile
Client No.: 125 **Location:** Room 233 2x2; Type 3

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	20
		50	Fibrous Glass	

Lab No. 1222527 **Material Description:** Brown Ceiling Tile
Client No.: 126 **Location:** Room 233 2x2; Type 3

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	20
		50	Fibrous Glass	

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith, III.
Vane G. Smith, III, AIHA-AAR 4719

Date: FEB 0 1 2001

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222528 **Material Description:** Lt.Brown CeilingTile
Client No.: 127 **Location:** Room 230 2x2; Type 4

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	25	Cellulose	20
		55	Fibrous Glass	

Lab No. 1222529 **Material Description:** Lt.Brown CeilingTile
Client No.: 128 **Location:** Room 230 2x2; Type 4

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	25	Cellulose	20
		55	Fibrous Glass	

Lab No. 1222530 **Material Description:** Lt.Brown CeilingTile
Client No.: 129 **Location:** Room 230 2x2; Type 4

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	25	Cellulose	20
		55	Fibrous Glass	

Lab No. 1222531 **Material Description:** Dk.Grey Ceiling Tile
Client No.: 130 **Location:** Room 229 2x2; Type 5

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	55	Fibrous Glass	45

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith, III.
Vane G. Smith, III, AIHA-AAR 4719

Date: FEB [illegible]

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222532 **Material Description:** Dk.Grey Ceiling Tile
Client No.: 131 **Location:** Room 229 2x2; Type 5

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	55	Fibrous Glass	45

Lab No. 1222533 **Material Description:** Tan Ceiling Tile
Client No.: 132 **Location:** SecondFloor;Corridor 2x2; Type 6

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	75	Cellulose	25

Lab No. 1222534 **Material Description:** Tan Ceiling Tile
Client No.: 133 **Location:** SecondFloor;Corridor 2x2; Type 6

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	75	Cellulose	25

Lab No. 1222535 **Material Description:** Tan Ceiling Tile
Client No.: 134 **Location:** SecondFloor;Corridor 2x2; Type 6

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	75	Cellulose	25

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith, III

Date: FEB 0 9 2001 Vane G. Smith, III, AIHA-AAR 4719

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories
16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 609.231.9449 Fax: 609.231.9818

972/9

- Chain of Custody -

Client: Delta Environmental Services
P.O. Box 564
Branford, CT 06405

Project Name: Mystic Education Center
Project No.: Mystic, CT
D97-148-24

Phone: (203) 481-7668
FAX: (203) 488-8164

Contact: Jim McCarthy
Pager:

Special Instructions:

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[✓] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400
[ ] PCM : OSHA
[ ] PCM : Other_____
[ ] AAS : NIOSH 7082 (Air)
[ ] AAS : Lead in Drinking Water
[ ] AAS : Lead in Paint ASTM D3335-85a
[ ] AAS : Lead Dust/Wipe
[ ] AAS : Other Metals / Soil_____

[✓] PLM : Bulk Asbestos EPA 600
[ ] PLM : Point Counting 198.1
[ ] PLM : NOB via 198.1 (PLM only)
[ ] If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements **
(**call to confirm TAT!)

[ ] TEM : AHERA
[ ] TEM : NIOSH 7402
[ ] TEM : EPA Level II
[ ] TEM : Microvac Dust
[ ] TEM : Asbestos in Water
[ ] TEM : Bulk Analysis
[ ] TEM : NOB 198.4
[ ] TEM : Other_____
[ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ date / time Verbals: _____ date / time

[ ] 10 Day [ ] 5 Day [✓] 72 hour [✓] 48 hour [ ] 24 hour [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): _____ (start) - _____ (end) IATL#(s): _____ (start) - _____ (end) Total: ___

Chain of Custody:

Relinquished:	June N McCarthy	Date: 2/6/01	Time: 5:00 pm
Received:		Date:	Time:
Sample Log-in:	CS 2/8 2000	Date:	Time:
Sample Prep:		FEB Date: 8 2001	Time:
Analyzed:	WS 2/9/01	Date:	Time:
QA/QC Review:	[illegible]	Date: 02/19/01	Time:

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405

(203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Whipple Bldg.

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED		COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
112	9" beige Floor Tile						Asbestos PLM EPA 600 1222513	positive stop	Room 247 Kitchenette				
113	↓						1222514	↓	↓				
114	↓						1222515	↓	↓				
115	Fibrous Roof Insulation						1222516	positive stop	Room 234				
116	↓						1222517	↓	↓				
117	↓						1222518	↓	Room 241				
118	2x2 Ceiling Tile - Type 1						1222519	positive stop	Room 240				
119	↓						1222520	↓	Room 230				
120	↓						1222521	↓	Room 247				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

LSS
2/8

FEB -8

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Whipple Bldg

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED		COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
121	2x2 Ceiling Tile - Type 2						Asbestos PLM EPA 600 1222522	positive stop	Room 240				
122	↓						1222523	↓	↓				
123	↓						1222524	↓	↓				
124	2x2 Ceiling Tile - Type 3						1222525	positive stop	Room 247				
125	↓						1222526	↓	Room 233				
126	↓						1222527	↓	↓				
127	2x2 Ceiling Tile - Type 4						1222528	positive stop	Room 230				
128	↓						1222529	↓	↓				
129	↓						1222530	↓	↓				

Container Codes: P = Plastic E = EPA VIAL G = Glass A = Amber Glass B = Bacteria Bottle
Preservative Codes: I = Iced F = Filtered N = Nitric Acid (HNO_3) H = Hydrochloric Acid (HCl) S= Sodium Hydroxide (NaOH) T = Sodium Thiosulfate F = Sulfuric Acid
O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Whipple Bldg

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED		COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
130	2x2 Ceiling Tile-Type 5						Asbestos PLM EPA 600 1222531	Positive stop	Room 229				
131	↓						1222532	↓	↓				
132	2x2 Ceiling Tile-Type 6						1222533	Positive stop	Second Floor Corridor				
133	↓						1222534	↓	↓				
134	↓						1222535	↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P. McLaughlin	Delta			1		James P. McLaughlin			
ADDITIONAL COMMENTS:				2					
				3					
				4					

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217294 **Material Description:** White Caulk
Client No.: 136 **Location:** Window Caulk

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 4.25	Chrysotile	None Detected	None Detected	PC 95.75

Lab No. 1217295 **Material Description:** Sample Not Analyzed
Client No.: 137 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1217296 **Material Description:** Sample Not Analyzed
Client No.: 138 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1217297 **Material Description:** Grey Caulk
Client No.: 139 **Location:** Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 4.50	Chrysotile	None Detected	None Detected	PC 95.5

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Thom Snyder

Date: JAN 31 2001

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217298
Client No.: 140
Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1217299
Client No.: 141
Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Thom Snyder

Date: JAN 31 2001

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Whipple Building

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
136	Window Caulk				12	17294	Asbestos PLM EPA 600 PLEASE USE POSITIVE STOP					
137	↓				12	17295	↓					
138	↓				12	17296	↓					
139	Window Glazing				12	17297	PLEASE USE POSITIVE STOP					
140	↓				12	17298	↓					
141	↓				12	17299	↓					

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME
James R. Melatto	Delta		

ADDITIONAL COMMENTS: LSS 1/30 JAN 20

TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
1		James R. Melatto			
2					
3		Analyzed: [signature] 1/31/01			
4					

APPENDIX C

Laboratory and Inspector Accreditations

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT-INSP/MGMT PLANNER

LICENSE NO.
000044
CURRENT THROUGH
02/28/01
VALIDATION NO.
00-321886

JAMES P. MCCARTHY

SIGNATURE

COMMISSIONER DEPT. OF PUBLIC HEALTH

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

CHEMSCOPE, INC.
NORTH HAVEN, CT

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

BULK ASBESTOS FIBER ANALYSIS

March 31, 2002
Effective through

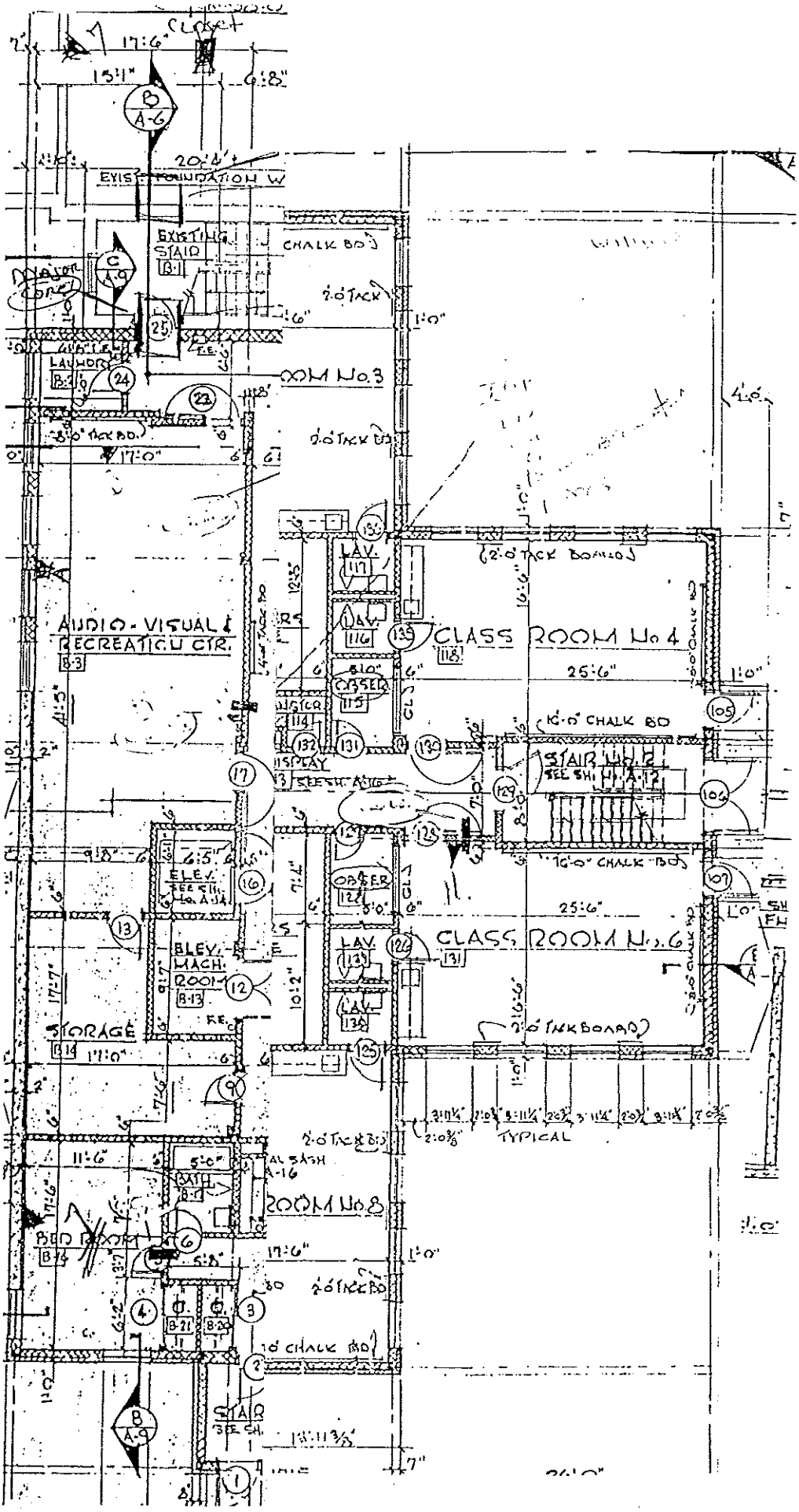
David F. Alderman
For the National Institute of Standards and Technology

NVLAP Lab Code: 101061-0

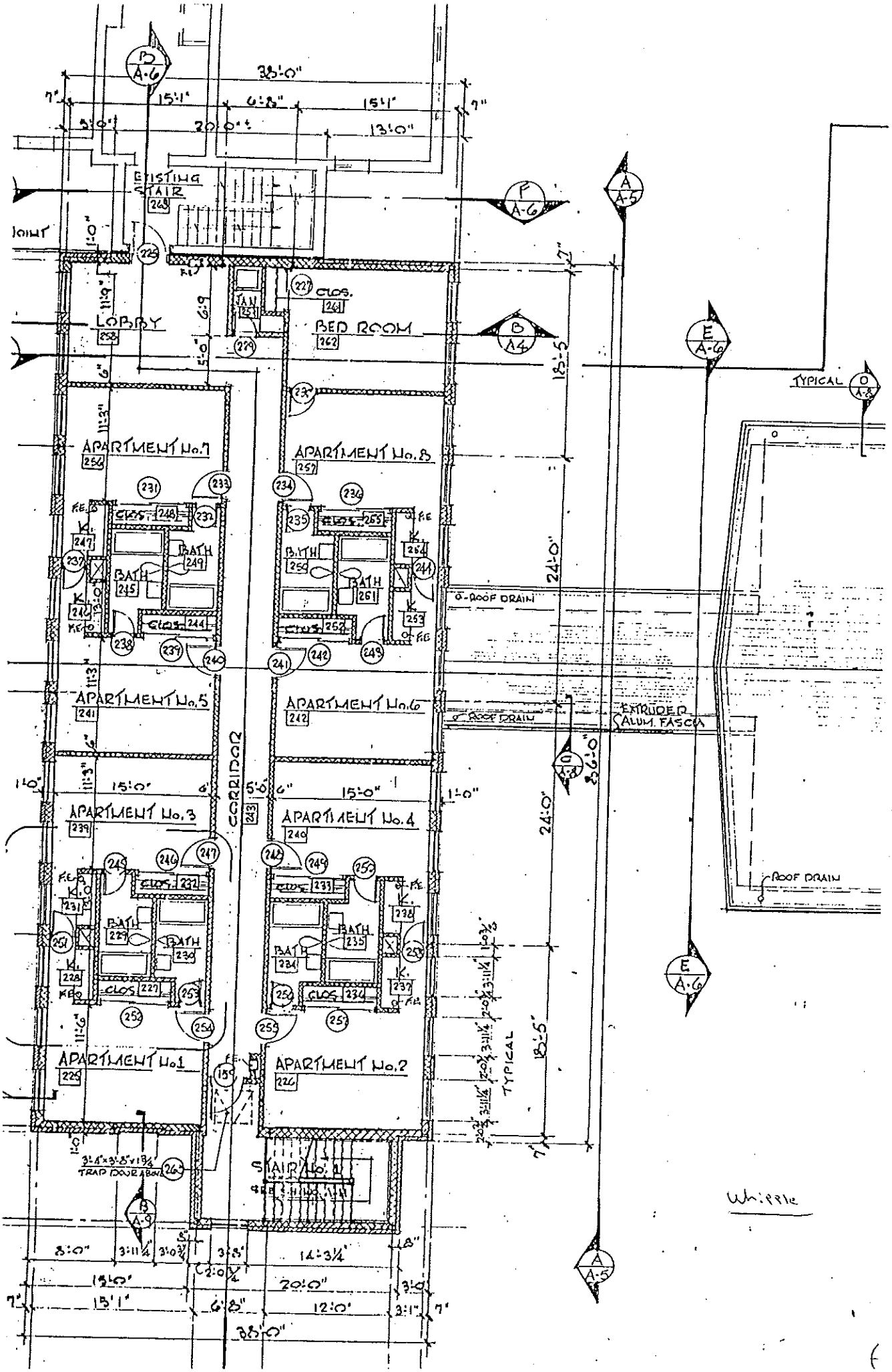
NVLAP-01C (11-95)

APPENDIX D

Building Diagrams



Closet
17'-6"
15'-1"
6'-8"
20'-4"
EXIST. FOUNDATION W
EXISTING STAIR
B-1
CHALK BD
2'-0" TACK
1'-0"
LAUNDRY
ROOM No. 3
8'-0" TACK BD.
17'-0"
2'-0" TACK BD
LAV.
117
LAV.
116
CLASS ROOM No. 4
118
2'-0" TACK BOARD
AUDIO-VISUAL & RECREATION CTR.
B-3
25'-6"
OBSER.
115
16'-0" CHALK BD
STAIR No. 2
SEE SH. No. A-12
16'-0" CHALK BD
ELEV.
SEE SH. No. A-14
OBSER.
128
25'-6"
CLASS ROOM No. 6
131
ELEV. MACH. ROOM
B-13
LAV.
129
LAV.
130
2'-0" TACK BOARD
STORAGE
B-14
17'-0"
TYPICAL
2'-0" TACK BD
11'-6"
5'-0"
ROOM No. 8
BED ROOM
B-16
17'-6"
1'-0"
2'-0" TACK BD
B-21
B-20
10' CHALK BD
STAIR
SEE SH.


EXISTING STAIR
LOBBY
BED ROOM
APARTMENT No.7
APARTMENT No.8
APARTMENT No.5
APARTMENT No.6
APARTMENT No.3
APARTMENT No.4
APARTMENT No.1
APARTMENT No.2
CORRIDOR
STAIR No. 1
TRAP DOOR ABOVE
TYPICAL
ROOF DRAIN
EXTRUDER ALUM. FASCIA
38'-0"
20'-0"
13'-0"
15'-1"
6'-8"
24'-0"
18'-5"
14'-3¼"
Whipple

COMPLIANCE REPORT FOR THE ABATEMENT OF ASBESTOS CONTAINING MATERIALS MYSTIC EDUCATIONAL CENTER WHIPPLE BUILDING GROTON, CONNECTICUT

Project No. RM-07-01
DPW No. 16947

Prepared for
State of Connecticut Department of Public Works
Hartford, Connecticut

Prepared by
TRC Environmental Corporation
Windsor, Connecticut

Donald LePage

Donald LePage
Project Manager

TRC Project No. 43500-6190-00003
June 27, 2007

TRC Environmental Corporation
21 Griffin Road North
Windsor, Connecticut 06095
Telephone 860-298-9692
Facsimile 860-298-6399

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F EQUIPMENT CALIBRATION DATA
G LABORATORY ANALYTICAL CERTIFICATIONS
H ASBESTOS AIR SAMPLE ANALYSIS AND CHAIN-OF-CUSTODY DATA
I ASBESTOS WASTE SHIPMENT RECORDS

1.0 EXECUTIVE SUMMARY

TRC Environmental Corporation (TRC) of Windsor, Connecticut was retained by the State of Connecticut Department of Public Works (CTDPW) to provide project compliance and industrial hygiene services during the abatement of asbestos containing materials (ACM) conducted at the Mystic Educational Center – Whipple Building, 240 School Road, Groton, Connecticut. TRC conducted this work per DAS Contract 03PSX0346AE which is effective from May 7, 2004 to September 30, 2008. Asbestos abatement was necessitated in accordance with the U.S. Environmental Protection Agency (USEPA) Asbestos National Emission Standard for Hazardous Air Pollutants (NESHAP) (40 CFR Part 61 Subpart M) as the building structure was scheduled for future renovation. The asbestos abatement contractor for the project was Petco Insulation Company, Inc. (Petco) of West Haven, Connecticut utilizing DAS Contract #03PSX0374AC. TRC was on site throughout the duration of the project to provide monitoring services.

The scope of work for the project, which took place from March 6 through March 8, 2007, involved the abatement of approximately 480 square feet (SF) of asbestos containing floor tile/mastic in Rooms 234 and 241 on the second floor. Written notification of the abatement activity was filed with the Connecticut Department of Public Health (CT DPH) by Petco ten days prior to the initiation of the abatement work. A copy of the notification was submitted by Petco to TRC. All work conducted by Petco was performed in compliance with OSHA's Occupational Exposure to Asbestos Standard, 29 CFR 1926.1101, the CT DPH Standards for Asbestos Abatement, 19a-332a-1 through 16, and the EPA's Asbestos National Emission Standard for Hazardous Air Pollutants (NESHAP) 40 CFR Part 61 Subpart M. Petco is a licensed State of Connecticut Asbestos Abatement Contractor and all Petco employees performing work on this project were appropriately licensed, trained, and medically qualified to perform such work. Interior work on ACM floor tile/mastic was performed following a pre-approved CTDPH blanket Alternative Work Practice (AWP) with a negative pressure enclosure (NPE) consisting of critical barriers, a single layer of 6-mil poly and contiguous decontamination system (AWP Scenario #2).

Air samples were collected during abatement activities to monitor airborne asbestos fiber emissions and were transferred using proper chain-of-custody records to TRC's Accredited Laboratory in Windsor, Connecticut and analyzed on-site by an AIHA Registered Asbestos Analyst from TRC for Phase Contrast Microscopy (PCM) analysis via the National Institute for Occupational Safety and Health (NIOSH) 7400 method. All asbestos air samples collected by TRC (inside and outside of the work areas) were found to be below the OSHA Permissible Exposure Level (PEL).

After abatement activities, the work areas were visually inspected by a TRC licensed Asbestos Project Monitor following ASTM Standard E1368-90 to ensure complete abatement. Further, reoccupancy asbestos clearance air sampling was conducted by TRC in the interior NPE work areas. The interior NPE reoccupancy clearance air samples were collected and analyzed on-site by an AIHA registered Asbestos Analyst from TRC using PCM analysis via the NIOSH 7400 method. The interior NPE work areas received a satisfactory visual inspection on March 7, had reoccupancy clearance air samples collected on March 8 and received acceptable reoccupancy clearance criteria air results on March 8, 2007.

The asbestos-containing waste generated during this project was containerized and labeled as asbestos waste in compliance with CTDEP/ CTDPH, OSHA, DOT and USEPA requirements. The waste was removed from the site in accordance with all state and federal disposal requirements, including the USEPA Asbestos NESHAP, and transported by TransWaste, Inc. of Cheshire, Connecticut to Modern Landfill of York, Pennsylvania where it was deposited. Approximately two (1.51) cubic yards of asbestos waste were removed from the project site.

This concluded TRC's on-site efforts for this project. Refer to Section 2.0 for TRC's complete site log notes documenting all aspects of the project on a daily basis.

2.0 SITE LOGS

TRC

SITE LOG

Page 1

Site / Station: Mystic Educ. Center – Whipple Bldg, Mystic, CT

Month / Year: 3/07

Project No:

Date	Time	Instrument and TRC ID	Comments	Initials
3/6/07	0710		TM on site for TRC. Petco on site today @ 0700 to resume prep in the Whipple bldg, 2nd floor – rooms 234+241. These 2 rooms are side-by-side; thus, Petco is combining both rooms into one containment. Crew will be abating 9x9 VAT w/ black mastic. Combined abatement amount will be ≈ 950 SF ACM. Petco started prep on 3/5/07. TRC was not on site yesterday	TM
	0735		TM off-loads equipment.	TM
	0740		Petco on site w/ 2 man crew, incl supervisor Mark Benbow. Prep is ≈ 85% complete.	TM
	0820		TM deploys PCM prep sample.	TM
	0930		Prep cont.	TM
	1135		TM performs pre-abate visual: pass. Crew will begin FT removal after lunch. TM collects prep area sample	TM
	1150		Lunch. TM deploys addit'l PCM sample.	TM
	1215		Petco begins VAT removal.	TM
	1330		VAT removal cont.	TM
	1410		Crew bags abated FT.	TM
	1430		TM collects PCM samples	TM
	1500		TRC + Petco off site.	TM
3/7				
	0700		TM on site for TRC; Petco on site w/ 2 man crew, incl supervisor M. Benbow.	TM
	0720		Crew resumes VAT abatement.	TM
	0745		TM deploys daily PCM sample	TM
	0910		Petco concludes FT removal + ~~bag~~ bag-out.	TM
	1000		Crew begins mastic removal utilizing chemicals + rotary buffer.	TM
	1130		Mastic removal ≈ 70% complete.	TM

TRC

SITE LOG

Page 2

Site / Station Mystic Educ. Center - Whipple Bldg
Mystic, CT

Month / Year 3/07

Project No

Date	Time	Instrument and TRC ID	Comments	Initials
3/7/07	1200		Lunch.	
	1230		Crew begins final clean.	TM
	1350		TM enters WA for post-abate visual.	TM
	1410		TM passes post-abate; Petco wraps WA.	
			TM collects PCM samples.	TM
	1430		Crew loads box truck w/ "A" bags.	TM
	1500		TRC + Petco off site.	TM
3/8				
	0700		TM on site for TRC; Petco on site w/ same crew as yesterday.	TM
	0755		TM starts PCM clearances in rooms 234 + 241.	TM
	0915		TM collects + analyzes clearances.	TM
	1010		Clearances pass; TM notifies Mr. Benbow.	
			Petco begins tear-down.	TM
	1130		Petco off site. TM remains on site to conduct asb. inspection in the Dumont bldg.	TM

PROJECT OUTLINE

Project Address:	Mystic Educational Center – Whipple Building 240 School Road Groton, CT
DAS Contract Number:	03PSX0346AE
DPW Project Manager:	James Sinclair
DPW Project No.:	RM-07-01
DPW Building No.:	16947
TRC Project No.:	43500-6190-00003
Date(s) of Project:	3/6/07-3/8/07
TRC Project Manager:	Donald LePage
TRC Project Monitor(s)/Inspector(s):	Tom Martin (#000015) – PM
Abatement Contractor:	Petco Insulation Co., Inc. (#000036)
Materials Abated:	~480 SF ACM floor tile/mastic – 2nd floor Rooms 234 & 241
Waste Hauler(s):	TransWaste, Inc., Cheshire, CT
Asbestos Landfill:	Modern Landfill, York, PA
Asbestos Waste Generated:	~ Two (1.51) cubic yards (CY)

APPENDIX A
NOTIFICATIONS/ALTERNATIVE WORK PRACTICES

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
ASBESTOS ABATEMENT NOTIFICATION FORM

State Use Only

Post Mark Date: _____
Check #: _____
Amount: _____
Transmittal # _____
Record #: _____

This form is to be completed, postmarked and filed with the Connecticut Department of Public Health ten (10) days prior to the start of asbestos abatement, as required by the Regulations of Connecticut State Agencies, Section 19a-332a-3. In case of emergency notifications, this form is to be completed and postmarked within one (1) working day following the start of asbestos abatement. The U.S. EPA may require notification of abatement or demolition, as per 40 CFR, Part 61, the asbestos NESHAP regulation. Faxed originals are not acceptable. Revisions may be faxed unless a fee is required.

(fill in or circle each item)

1. TYPE OF NOTIFICATION

A. NEW X **B. BLANKET** ____ **C. CANCELLATION / POSTPONED (C)** ____ **(P)** ____
D. REVISED ____ **(ITEMS REVISED)** _____ **REVISION #:** _____
E. EMERGENCY ____ **DESCRIBE NATURE OF EMERGENCY** _____

2. ABATEMENT CONTRACTOR:
Name: Petco Insulation Company, Inc. License #: 000036
Address: 88 Farwell Street, P.O. Box 26127
City: West Haven State: Connecticut Zip Code: 06516
Phone #: (203)934-3926 Contact Person: James Reilly

3. FACILITY OWNER/OPERATOR:
Name: State of Connecticut, Department of Public Works
Address: 165 Capitol Avenue
City: Hartford State: Connecticut Zip Code: 06106
Phone #: (860)713-5821 Contact Person: Jim Sinclair

4. NAME OF FACILITY: (MUST BE FILLED IN)
Name: Mystic Education, Whipple Building
Address: 240 School Road
City: Groton State: Connecticut Zip Code: _____

5.(A) START DATE: 3/5/07 **5. (B) COMPLETION DATE:** 3/14/07

FOR PROJECTS INVOLVING 160 SQ FT OR MORE OF ASBESTOS

IF APPLICABLE
6. (A) TOTAL COST OF ABATEMENT: _____ **6. (B) REVISED COST:** _____

Mail to:
Connecticut DPH
Division of Environmental Health
Indoor Air Program
410 Capitol Avenue, MS 51 AIR
PO Box 340308
Hartford, CT 06134-0308

Phone: (860) 509-7367/ Fax: (860) 509-7378
An Equal Opportunity Employer

7. USE OF FACILITY:

A. School (K-12) ____ B. Public Building ____ C. Manufacturing ____
D. Office ____ E. College ____ F. Commercial ____
G. Church/Synagogue ____ H. Residential, # of dwellings ____ I. Other X (SPECIFY) DMR Facility

8. BUILDING DATA:

SQUARE FEET: 24,457 Number of floors: 3 Age: 39 yrs old

9. ABATEMENT CLASSIFICATION:

A. Renovation: X B. Demolition: ____ C. Ordered Demolition – Agency Issuing Order: ____
NOTE: Attach Demolition Order

10. ABATEMENT TECHNIQUE:

A. Full Containment with Neg. Air X B. Alternative Work Practice (preapproval required) X
Project Designer / License # DPW Blanket AWP, Scenario #2
C. Exterior Abatement ____ D. SPOT REPAIR (>25 SQ FT TOTAL) ____

11. ABATEMENT METHOD:

A. Removal X
B Encapsulation ____
C .Enclosure ____

12. TYPE OF DECONTAMINATION SYSTEM:

A. Contiguous X B. Remote X

13. TYPE AND AMOUNT OF ASBESTOS TO BE ABATED: (REPORTED IN SQUARE FEET)

FRIABLE MATERIAL

A. Sprayed or Troweled on		Sq. ft.	E. Duct Insulation		Sq. ft.
B. Boiler Insulation		Sq. ft.	F. Ceiling Tiles		Sq. ft.
C. Tank Insulation		Sq. ft.	G. Other, Specify:		Sq. ft.
D. Breeching Insulation		Sq. ft.	H. Pipe Insulation*		Sq. ft.
*Pipe Insulation	Total Linear Feet				

Pipe diameter" Linear Feet multiplied by conversion factor* equals Total Sq ft (*see Notif. Conversion table)

	In.		LF	x		
	In.		LF	x		
	In.		LF	x		
	In.		LF	x		

NONFRIABLE MATERIAL

Category I	square feet	Category II	square feet
I. Floor coverings/tiles	480	L. Transite Board	
J. Roofing, specify:		M. Other, specify:	
K. Gaskets, packings			

14. WASTE DIPSOSAL SITE (IF MULTIPLE SITES, LIST SEPARATELY):

Name	Modem Landfill	OR	BFI Imperial Landfill	OR	Manchester Landfill
Address	4400 Mt. Pisgah Rd		11 Boggs Road, P.O Box 47		1 Landfill Way
City, State, Zip	York, PA 17402		Imperial, PA 15126		Manchester, CT 06040
Owner, Operator					

15. HAULER/WASTE TRANSPORTER:

Name	Transwaste, Inc.
Address	3 Barker Drive
City, State, Zip	Wallingford, CT 06492

Name of Individual Completing This Form James Reilly

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

March 20, 2007

Edward P. Fennell
ATC Associates
290 Roberts Street, Suite 204
East Hartford, CT 06108

Re: Application for Approval of Alternative Work Practice for Renovation and Demolition of Various Properties Owned By the State of Connecticut Department of Public Works

Dear Mr. Fennel:

This letter is in response to an application from you prepared March 13, 2007, requesting approval of a blanket alternative work practice for the removal of various asbestos-containing materials (ACM) associated with the renovation and demolition of various properties owned by the State of Connecticut Department of Public Works. Based upon the information provided in the application describing the proposed alternative work practices, *conditional* approval is granted by the Department of Public Health (DPH). This *conditional* approval of the requested variance is granted only as applied to the specific scenarios given below. *As a condition of approval, each asbestos abatement contractor utilizing these approved alternative work practices shall submit a copy of this approval letter with the asbestos abatement notification form submitted for each project site. The notification form or accompanying documentation shall clearly reference the AWP scenario(s) to be utilized in performing that abatement. Further, the notification or accompanying documentation shall clearly indicate the quantity(ies) and type(s) of asbestos-containing material to be removed by each scenario.*

In all the following scenarios, the required signs shall be posted, in accordance with Subsection 19a-332a-5(a).

Scenario 1 – Renovation Projects: Friable ACM, Glove-Bag Method

In lieu of the requirements of Subsection 19a-332a-5(e), the work area is to be isolated from the non-work area by barriers as outlined in Subsection 19a-332a-5(c). Additionally, a single layer of 6-mil polyethylene sheeting shall be used to seal or compose the wall surfaces and cover the floor surfaces in the work area. In areas where this barrier does not extend to the ceiling, the layer of six-mil polyethylene sheeting shall compose the ceiling of the airtight enclosure. The friable ACM shall be abated using the glove bag procedure, as outlined in 29 CFR 1926.1101. The work area shall pass the no visible residue criterion of Subsections 19a-332a-5(g) and 19a-332a-7(c) prior to encapsulation, as determined by a licensed Project Monitor.

Scenario 2 – Renovation Projects: Nonfriable ACM

In lieu of the requirements of Subsection 19a-332a-5(e), the work area is to be isolated from the non-work area by barriers as outlined in Subsection 19a-332a-5(c). Additionally, a single layer of 4-mil or 6-mil polyethylene sheeting shall be used to seal the wall surfaces in the work area. In areas where this barrier does not extend to the ceiling, the layer of polyethylene sheeting shall compose the ceiling of the airtight enclosure. The work area shall

Phone: (860)509-7367 Fax: (860)509-7378
Telephone Device for the Deaf: (860) 509-7191
410 Capitol Avenue - MS # 51AIR
P.O. Box 340308 Hartford, CT 06134
Affirmative Action / An Equal Opportunity Employer

pass the no visible residue criterion of Subsections 19a-332a-5(g) and 19a-332a-7(c) prior to encapsulation, as determined by a licensed Project Monitor. This work practice is applicable only to nonfriable ACM. Nonfriable ACM is limited to: flooring/treading, cove base, mastic/glues, transite/cementitious materials, glue daubs, gaskets, glazings, caulkings, putty, and asphalt materials, unless written approval by the DPH is granted.

Scenario 3 – Demolition, sound structure: Friable ACM, Glove-Bag Method

In lieu of the requirements of Subsection 19a-332a-5(e), the work area is to be isolated from the non-work area by barriers as outlined in Subsection 19a-332a-5(c). Negative pressure ventilation will be established in accordance with Subsection 190a-332a-5(h). The friable ACM shall be abated using the glove bag procedure, as outlined in 29 CFR 1926.1101. In conjunction with the glove bag procedure, a single layer of polyethylene sheeting shall be placed on the floor beneath the pipe insulation to serve as a drop cloth. The work area shall pass the no visible residue criterion of Subsections 19a-332a-5(g) and 19a-332a-7(c) prior to demolition, as determined by a licensed Project Monitor. Post abatement reoccupancy air testing is mandatory if the building shall be reoccupied.

Scenario 4 – Demolition, sound structure: Nonfriable ACM

In lieu of the requirements of Subsection 19a-332a-5(e), the work area is to be isolated from the non-work area by barriers as outlined in Subsection 19a-332a-5(c). Negative pressure ventilation will be established in accordance with Subsection 190a-332a-5(h). The work area shall pass the no visible residue criterion of Subsections 19a-332a-5(g) and 19a-332a-7(c) prior to demolition, as determined by a licensed Project Monitor. Post abatement reoccupancy air testing is mandatory if the building shall be reoccupied. This work practice is applicable only to nonfriable ACM. Nonfriable ACM is limited to: flooring/treading, cove base, mastic/glues, transite/cementitious materials, glue daubs, gaskets, glazings, caulkings, putty and asphalt materials, unless written approval by the DPH is granted.

Except as noted in this letter, all other work practices specified in the Standards for Asbestos Abatement regulation are mandatory. This approval is specific to the identified facility and does not relieve the contractor or facility owner from any other federal, state or municipal regulations. The Department reserves the right to rescind this approval should it determine that equivalent means of asbestos emission control are not maintained.

Please feel free to contact this office should you wish to discuss this matter further.

Sincerely,

Jimmy Davila
Environmental Sanitarian I
Asbestos Program
Environmental Health Section

State of Connecticut
Department of Public Health
Alternative Work Practice (AWP)
Approval Form

Check box for applicable AWP scenario

☐ **1. Renovation Projects – Removal of Friable Asbestos-Containing Material (ACM) Using the Glove-Bag Method**
Variance from Section 19a-332a-5(e)

Abatement work in facilities subject to this approval shall be conducted with appropriate signage, as required by Section 19a-332a-5(a). In lieu of the requirements of Section 19a-332a-5(e), the friable asbestos-containing material shall be removed utilizing the glove-bag procedure outlined in 29 CFR 1926.1101, of the Department of Labor, Occupational Safety and Health Administration regulation. In addition to the glove-bag procedure, the work area is to be isolated from the non-work area by establishing an air-tight barrier of 6 mil polyethylene sheeting covering or composing the wall surfaces and covering the floor surface. In areas where this barrier does not extend to the ceiling, the layer of 6 mil polyethylene sheeting shall compose the ceiling of the air-tight enclosure.

☒ **2. Renovation Projects – Removal of Non-friable ACM**
Variance from Section 19a-332a-5(e)

Abatement work in facilities subject to this approval shall be conducted with appropriate signage, as required by Section 19a-332a-5(a). In lieu of the requirements of Section 19a-332a-5(e), the work area shall be isolated from the non-work area by barriers as outlined in Section 19a-332a-5(c). Additionally, a single layer of 4 or 6 mil polyethylene sheeting shall be used to seal the wall surfaces in the work area. This scenario is limited to non-friable flooring/treading, cove base, mastic/glue, transite/cementitious materials, glue daubs, gaskets, caulking, putty and asphalt materials unless written approval by DPH is granted.

☐ **3. Demolition Projects, Sound Structure – Removal of Friable ACM Using the Glove-Bag Method**
Variance from Section 19a-332a-5(e)

Abatement work in facilities subject to this approval shall be conducted with appropriate signage, as required by Section 19a-332a-5(a). In lieu of the requirements of Section 19a-332a-5(e), the work area shall be isolated from the non-work area by barriers as outlined in Section 19a-332a-5(c). The friable asbestos-containing material shall be removed utilizing the glove-bag procedure outlined in 29 CFR 1926.1101 of the Department of Labor, Occupational Safety and Health Administration regulation. Negative pressure ventilation will be established in accordance with Section 19a-332a-5(h). The work area shall be visually inspected and pass the no visible debris criteria of Sections 19a-332a-5(g) and 19a-332a-7(c). In addition, when the building is to be reoccupied by any person prior to demolition, post abatement reoccupancy air testing shall be performed in accordance with Section 19a-332a-12.

☐ **4. Demolition Projects, Sound Structure – Removal of Non-friable ACM**
Variance from Section 19a-332a-5(e)

Abatement work in facilities subject to this approval shall be conducted with appropriate signage, as required by Section 19a-332a-5(a). In lieu of the requirements of Section 19a-332a-5(e), the work area is to be isolated from the non-work area by barriers as outlined in Section 19a-332a-5(c). Negative pressure ventilation will be established in accordance with Section 19a-332a-5(h). This work practice is applicable *only* for removal of non-friable ACM. For the purposes of this approval, non-friable ACM is limited to non-friable flooring/treading, cove base, mastic/glue, transite/cementitious materials, glue daubs, gaskets, caulking, putty and asphalt materials unless written approval by DPH is granted.

APPENDIX B
CONTRACTOR CERTIFICATIONS/LICENSES

0008360 FP **PRSRT T3 0 0864 06516
PETCO INSULATION COMPANY, INC.
P.O. BOX 26127
88 FARWELL STREET
WEST HAVEN CT 06516

Dear Licensed/Certified Professional,

Attached you will find your validated license/certification for the coming year. Should you have any questions about your license/certificate renewal, please do not hesitate to write or call:

Department of Public Health **(860) 509-7603**
P.O. Box 340308
M.S.#12MQA **http://www.dph.state.ct.us**
Hartford, CT 06134-0308

Sincerely,

J Robert Galvin M.D, M.P.H.

J. ROBERT GALVIN, MD, MPH, COMMISSIONER
DEPARTMENT OF PUBLIC HEALTH

INSTRUCTIONS:

1. Detach and sign each of the cards on this form.
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.
4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONTRACTOR

PETCO INSULATION COMPANY, INC.

LICENSE NO.
000036
CURRENT THROUGH
09/30/07
VALIDATION NO.
03-369002

SIGNATURE J Robert Galvin M.D, M.P.H. COMMISSIONER

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
NAME
PETCO INSULATION COMPANY, INC.

VALIDATION NO.	LICENSE NO.	CURRENT THROUGH
03-369002	000036	09/30/07

PROFESSION
ASBESTOS CONTRACTOR

SIGNATURE J Robert Galvin M.D, M.P.H. COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
NAME
PETCO INSULATION COMPANY, INC.

VALIDATION NO.	LICENSE NO.	CURRENT THROUGH
03-369002	000036	09/30/07

PROFESSION
ASBESTOS CONTRACTOR

SIGNATURE J Robert Galvin M.D, M.P.H. COMMISSIONER

Health Care or Environmental Health Professional's License Status

This site is part of **CT-clic.com**, the **Connecticut Licensing Info Center,** that links to all YOUR State licensing and registration needs.

Note: Requests for copies of documents related to past disciplinary action for professions other than physicians may be emailed as such documents are not currently available via this web site. Please include your name and telephone number on any request.

License Type:	Asbestos Abatement Supervisor
License Number:	000609
Name:	BENBOW, MARK A
Expiration Date:	4/30/2007
Granted Date:	8/15/2000
License Name:	Mark A. Benbow
License Status:	Current
Disciplinary Action:	None

Questions

E-mail webmaster.dph@po.state.ct.us or call (860) 509-7603

For Business Registry Questions? Contact Smart . or call **1-800-392-2122.**

State of Connecticut Disclaimer and Privacy Policy . Copyright @ 2000 State of Connecticut. Universal Website Accessibility Policy applies. For comments about this site contact the

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

MARK A BENBOW	
Certificate Number 040705524ASBSR1205	
Course Date 12/15/2005	*Exam Date* 12/15/2005
Expires: 12/15/2006	

NEW ENGLAND LABORERS'
TRAINING TRUST FUND
P.O. Box 77
Pomfret Center, CT 06259
(860) 974-1455

MARK A BENBOW

The individual named has completed
the requisite training for asbestos
accreditation under TSCA Title II

Joseph M. Sabitoni *Training Director*

NEW ENGLAND LABORERS'
TRAINING TRUST FUND
P.O. Box 77
Pomfret Center, CT 06259
(860) 974-1455

MARK A BENBOW

The individual named has completed
the requisite training for asbestos
accreditation under TSCA Title II

Joseph M. Sabitoni *Training Director*

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

MARK A BENBOW	
Certificate Number 040705524ASBSR1206	
Course Date 12/8/2006	*Exam Date* 12/8/2006
Expires: 12/8/2007	

CERTIFICATE OF ACHIEVEMENT

This certifies that

Mark Benbow

has successfully completed the

40 Hour Asbestos Abatement Supervisor/Contractor Training
Asbestos Accreditation Under TSCA Title II
40 CFR Part 763

conducted by
ATC Associates Inc.
39 Spruce Street
East Longmeadow, MA 01028
(413) 525-1198

Steve Williamson
Principal Instructor

Martin A. Stevens
Regional Manager

May 11-15, 1998
Date of Course

40SS-2725
Certificate Number

May 15, 1999
Expiration Date

May 15. 1998
Examination Date

Concentra Medical Centers (CT)

701 Main Street EAST HARTFORD, CT 06108
Phone: (860) 289-5561 Fax: (860) 291-1895

PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

Service Date: 06/02/2006

Employee Name: Benbow, Mark A.

Employee SSN: 040-70-5524

Address:
502 Stanley St

NEW BRITAIN CT 06051

Employer: Petco Insulation Co

You were evaluated in this office of your medical status related to your physical capability to wear a respirator. (Check ✓ one that applies)

- ☑ There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- ☐ The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

Based upon the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)

- ☑ ARE qualified to wear a respirator.
- ☐ Have the following restrictions concerning respirator usage: _____
- ☐ ARE NOT qualified to wear a respirator.
- ☐ Require further testing by your private physician who must submit a written report of his/her findings to **Concentra Medical Centers (CT)** so that a final decision on your ability to wear a respirator can be made.
- ☐ Must wear Special prescription eye-wear needed to accommodate respirator.
- ☐ Must use an Eye glass conversion kit.
- ☐ May need to shave Facial hair to assure tight seal on certain face masks.
- ☐ Need to stop smoking.

(Check ✓ ALL that apply)

- ☐ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☐ The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☑ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator.Refer to product literature and packaging for specific information regarding fit, use and/or limitations.

PLHCP Signature

David Feinstein MD
PLHCP Name (printed)

Employee's Signature

6/2/07
Expiration Date

[1]Physician or other Licensed Healthcare Professional

To be maintained in the employee's file with a copy to the employee

RESPIRATOR FIT TEST

Date of Test 3\20\06

Name mark Benbow

SS Number 040-70-5524

Respirator Make grendale 1/2 face . 3m PAPR

Type

PASS/FAIL

Expiration Date 3\20\07

COMMENTS

Test Administrator

This fit test certification will expire in one (1) year unless other physical factors and/or different respirator is required, Re-Test is required.

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JOSE M. FERNANDES

VALIDATION NO.	CERTIFICATION NO.	CURRENT THROUGH
03-410193	000849	12/31/07

PROFESSION
ASBESTOS ABATEMENT WORKER

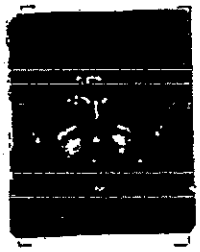
SIGNATURE

J Robert Galvin M.D., M.H.
COMMISSIONER

ASBESTOS ABATEMENT WORKER REFRESHER

JOSE M FERNANDES	
Certificate Number 045587404ASBR0107	
Course Date 1/31/2007	*Exam Date* 1/31/2007
Expires: 1/31/2008	

ASBESTOS ABATEMENT WORKER COURSE



Name/Certificate #	
Jose Fernandes 045-58-7404	
Course Date 6/12-15/95	Exam Date 6/15/95
Expires 6/15/96	

NEW ENGLAND LABORERS' TRAINING TRUST FUND

37 East Street
Hopkinton, MA 01748
(508) 435-6316

The individual named has completed the requisite training for asbestos accreditation under TSCA Title II

James Merlone, Jr., Administrator

ASBESTOS ABATEMENT WORKER REFRESHER

Name/Certificate #	
Jose Fernandes 045587404ASBR0696	
Course Date 061996	Exam Date 061996
Expires 061997	

NEW ENGLAND LABORERS' TRAINING TRUST FUND

P.O. Box 77
Pomfret Center, CT 06259
(203) 974-1455

The individual named has completed the requisite training for asbestos accreditation under TSCA Title II

John LeConche, Administrator

ASBESTOS ABATEMENT WORKER REFRESHER

Name/Certificate #	
Jose Fernandes 045587404ASBR0897	
Course Date 08-06-97	Exam Date 080697
Expires 080698	

NEW ENGLAND LABORERS' TRAINING TRUST FUND

P.O. Box 77
Pomfret Center, CT 06259
(203) 974-1455

The individual named has completed the requisite training for asbestos accreditation under TSCA Title II

John LeConche, Administrator

New England Laborers' Training Academy
SCAFFOLD TRAINING PROGRAM

Name: Jose Fernandes	
S.S./Cert.#: 045587404SCAF0597	
Completion Date: 05-31-97	

*Complies with OSHA 1926.450 Scaffold Regulations, including Training Requirements under 1926.454

New England Laborers' Training Academy

Route 97 & Murdock Road
Pomfret Center, Connecticut 06259
Tel: (860) 974-1455

Training received meets OSHA requirements for:

- ☒ Scaffold User
- ☐ Advanced Builder - systems trained on:
  - ☐ Frame and Brace
  - ☐ Tube and Clamp
  - ☐ System
  - ☐ Tower
  - ☐ Suspension
  - ☐ Shoring
  - ☐ Rolling Tower
  - ☐ Aerial Lifts

ASBESTOS ABATEMENT WORKER REFRESHER

Name/Certificate #	
Jose Fernandes 045587404ASBR079[illegible]	
Course Date 07-08-98	Exam Da[illegible] 0708[illegible]

NEW ENGLAND LABORERS' TRAINING TRUST FUND

P.O. Box 77
Pomfret Center, CT 06259
(203) 974-1455

The individual named has completed the requisite training for asbestos

Concentra Medical Centers (CT)

555 Lordship Blvd STRATFORD, CT 06615
Phone: (203) 380-5945 Fax: (203) 380-5953

PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

Service Date: 05/25/2006

Employee Name: Fernandes, Jose M.

Employee SSN: 045-58-7404

Address: 7 Old Coach Rd

MONROE CT 06468

Employer: Petco Insulation Co

You were evaluated in this office of your medical status related to your physical capability to wear a respirator. (Check ✓ one that applies)

- ☑ There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- ☐ The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

Based upon the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)

- ☑ ARE qualified to wear a respirator.
- ☐ Have the following restrictions concerning respirator usage: _____
- ☐ ARE NOT qualified to wear a respirator.
- ☐ Require further testing by your private physician who must submit a written report of his/her findings to Concentra Medical Centers (CT) so that a final decision on your ability to wear a respirator can be made.
- ☐ Must wear Special prescription eye-wear needed to accommodate respirator.
- ☐ Must use an Eye glass conversion kit.
- ☐ May need to shave Facial hair to assure tight seal on certain face masks.
- ☐ Need to stop smoking.

(Check ✓ ALL that apply)

- ☑ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☐ The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☐ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator. Refer to product literature and packaging for specific information regarding fit, use and/or limitations.

PLHCP Signature

CHANDER DEVARAJ, M.D.
PLHCP Name (printed)

Employee's Signature

5/25/07
Expiration Date

[1] Physician or other Licensed Healthcare Professional

To be maintained in the employee's file with a copy to the employee

RESPIRATOR FIT TEST

Date of Test 4/25/06

Name Jose Fernandes

SS Number 045-58-7404

Respirator Make grendale 1/2 face, 3m PAPR

Type

PASS/FAIL

Expiration Date 4/25/07

COMMENTS

Test Administrator

This fit test certification will expire in one (1) year unless other physical factors and/or different respirator is required, Re-Test is required.

APPENDIX C
DAILY PROJECT SIGN-IN SHEETS

SIGN-IN SHEET FOR DPW-Mystic Educational Center
(Job Name and Project Number)

NOTICE: All persons entering and leaving the Clean Room, Showers, Equipment Room and Work Area(s) must sign in and out. Please complete all information slots.

TRC REPRESENTATIVE: Tom [illegible] DATE: 3/6, 7 + 8/07

NAME	COMPANY	DESTINATION (Clean Room, Showers, Equip. Room, Work Area)	PROTECTIVE CLOTHING (Respirator, Tyvek Suit, Gloves)	PURPOSE of Entry (Inspection, Work)	TIME IN - OUT
3/6/07		2nd floor, rooms			0700-1500
Mark Benbow	Petco	234 + 241	OSHA req'd	supervisor	
Jose Fernandez	↓	↓	↓	asb. worker	↓
3/7/07					
M. Benbow	↓	↓	↓	↓	↓
J. Fernandez					

11/86

APPENDIX D
CONTRACTOR OSHA PERSONNEL AIR SAMPLING RESULTS

TRC

Company: Public
88 Farwell Street
West Haven, Connecticut 06516-0961

Hygienist

Lab #81992

Type of Project

- [x] Asbestos Abatement
- [ ] Lead Abatement

Date Collected: 3-6-07
Job Name: mystic Education
Job Number: 201-2778
Project Foreman: Mark Benbow

Type of Removal

- [ ] Pre-clean
- [ ] Pipe
- [ ] Boiler
- [ ] Breeching
- [ ] Ceiling Tile
- [ ] Glovebag
- [ ] Other
- [ ] Set Up
- [ ] Fittings
- [ ] Tank
- [ ] Duct
- [ ] Bag Out
- [ ] Encapsulation
- [ ] Transite Board
- [ ] Sprayed-On
- [x] Floor Tile
- [ ] Blastrac
- [ ] Mastic Removal

Calibration

- [ ] Final Clearance Air Test
- [x] Personal Sample
- [ ] Work Sample

QC + Analyst: K. Williams 3/14/07

Lab Sup: Henry J. Schiavetta

Sample Number	Worker Name/S.S. Number / Work Function	Respirator Type/Brand	Time On	Time Off	Flow (L/Min)	Pump No.	Fiber Concentration	T.W.A.
1	Jose Fernandes / Tile Removal	wilson 1/2 FACE	1100	1130	2%		1/100 ndl 0.045 ✓	
2	Jose Fernandes / Tile Removal	wilson 1/2 FACE	1130	330	2%		5/100 ndl 0.80 ✓	
3	BLANK						0/100 —	

Received: K. Williams 3/14/07 0700

Company: Ortec
88 Farwell Street
West Haven, Connecticut 06516-0961

Hygienist TRC

lab # 81992

Type of Project

☑ Asbestos Abatement ☐ Lead Abatement

Type of Removal

☐ Pre-clean ☐ Set Up ☐ Encapsulation
☐ Pipe ☐ Fittings ☐ Transite Board
☐ Boiler ☐ Tank ☐ Sprayed-On
☐ Breeching ☐ Duct ☐ Floor Tile
☐ Ceiling Tile ☐ Bag Out ☐ Blastrac
☐ Glovebag ☑ Mastic Removal
☐ Other

Date Collected 3-07-07
Job Name Mystic Education Whippl
Job Number 201-2778
Project Foreman Mark BenBow

Calibration
☐ Final Clearance Air Test
☑ Personal Sample
☐ Work Sample

QC + Analyst: K. Williams 3/14/07
Lab Sup. Henry J. Laliberte

Sample Number	Worker Name/S.S. Number / Work Function	Respirator Type/Brand	Time On	Time Off	Flow (L/Min)	Pump No.	Fiber Concentration	T.W.A.
1	Mark BenBow / Mastic Removal	Wilson/Le Face	730	800	2%		2/100 nd < 0.045 ✓	QC 0/100 KW
2	Mark BenBow / Mastic Removal	Wilson/Le Face	800	330	2%		3/100 nd < 0.003 ✓	
3	BLANK						0/100	

Rec'd by: [signature] 3/14/07 0700

APPENDIX E
TRC CERTIFICATIONS/LICENSES

ISTRUCTIONS:

Detach and sign each of the cards on this form.
. Display the large card in a prominent place in your office or place of business.
. The wallet card is for you to carry on your person. If you do not wish to carry he wallet card, place it in a secure place.

4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A
ASBESTOS CONSULTANT - PROJECT MONITOR

THOMAS J. MARTIN

LICENSE NO.
000015
CURRENT THROUGH
02/29/08
VALIDATION NO.
03-454611

SIGNATURE

COMMISSIONER

EMPLOYER'S COPY
STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
THOMAS J. MARTIN

VALIDATION NO.	LICENSE NO.	CURRENT THROUGH
03-454611	000015	02/29/08

PROFESSION
ASBESTOS CONSULTANT-PROJECT MONITOR

SIGNATURE

COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

Tom Martin

has successfully completed the

8 Hour Asbestos Project Monitor Refresher Training

Official record of successful completion of this course is the DOH 2832 cert. issued on January 2, 2007.

conducted by
ATC Associates Inc.
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Principal Instructor

Regional Manager

January 2, 2007
Date of Course

PMR-0834
Certificate Number

January 2, 2008
Expiration Date

January 2, 2007
Examination Date

AMERICAN
INDUSTRIAL
HYGIENE
ASSOCIATION P.O. Box 8390 • 345 White Pond Dr. • Akron, OH 44320 • TEL. (216) 873-AIHA (2442) • FAX (216) 873-1642

March 10, 1992

TOM MARTIN
TRC ENV. CONSULTANTS
5 WATERSIDE CROSSING
WINDSOR, CT 06095-

You have been entered as an asbestos counter on the AIHA Asbestos Analysts Registry (AAR). In the future, your AAR listing will indicate your performance on AAR quality audit sample analyses. This letter introduces you to some of the procedures related to these quality audit samples, such as how your analytical results should be reported. This letter does not imply final approval of your application, which may still be in review.

Each counter on the Registry has a 4-digit Counter Identification (Counter ID). The organization you work for also has an ID number. (If you move, your new organization should re-enroll you with AIHA.) The following are your ID numbers:

COUNTER ID for TOM MARTIN: 4525
ORGANIZATION ID for TRC ENV. CONSULTANTS: 06108-001
ORGANIZATION CONTACT PERSON: PAUL HUNT

Quality audit samples will be mailed each quarter along with a form for reporting your results. You will have to enter your Counter ID and Organization ID on the form to properly report your results, so be sure to retain these numbers in a secure place. The enclosed page of instructions gives sample mailing dates, information on reporting results, and performance criteria. Also enclosed is an extra copy of the reporting form which you should keep for possible future use.

The AAR audit samples will be mailed to your organization's contact person. The contact person will receive a set of four samples for every five counters at your address shortly after the sample mailing date. At that time, it is your responsibility to contact that person, obtain a result form, and carefully prepare a wedge from each sample in a set. Performance results are also mailed to the contact person. It is your responsibility to obtain a copy if you want a continuous record of your performance; the AAR report only your present status (performance over the last two quarters).

If you have questions concerning AAR, call AIHA at (216)873-2442.

APPENDIX F
EQUIPMENT CALIBRATION DATA

Low-flow Rotameter Calibration

Rotameter setting	(cc) Trial 1	(cc) Trial 2	(cc) Trial 3	(cc) Trial 4	(cc) Trial 5		LPM
1	1.000	0.999	1.004	1.005	0.999		1.001
2	2.022	2.020	2.021	2.019	2.006		2.018
3	3.128	3.125	3.125	3.124	3.121		3.125
4	4.191	4.203	4.201	4.207	4.214		4.203

Rotameter# L-25
calibrated by KW
date 11/10/06
temperature 23C

ta ter calibrated using
ball. Calibrated with
, Standard Electronic
-Cal DC-1 meter. Model :
-1 Bios International Corp
TRC

*CC = cubic centimeter
*LPM = liters per minute

TRC
Customer-Focused Solutions

TRC Environmental Corporation

Standard Electronic Dry CAL DC-1 meter Model: DC-1 Bios International Corp. S/N TRC W00301

SHEET NO. 2 OF 2

PROJECT NO.

DATE

BY

CHK'D

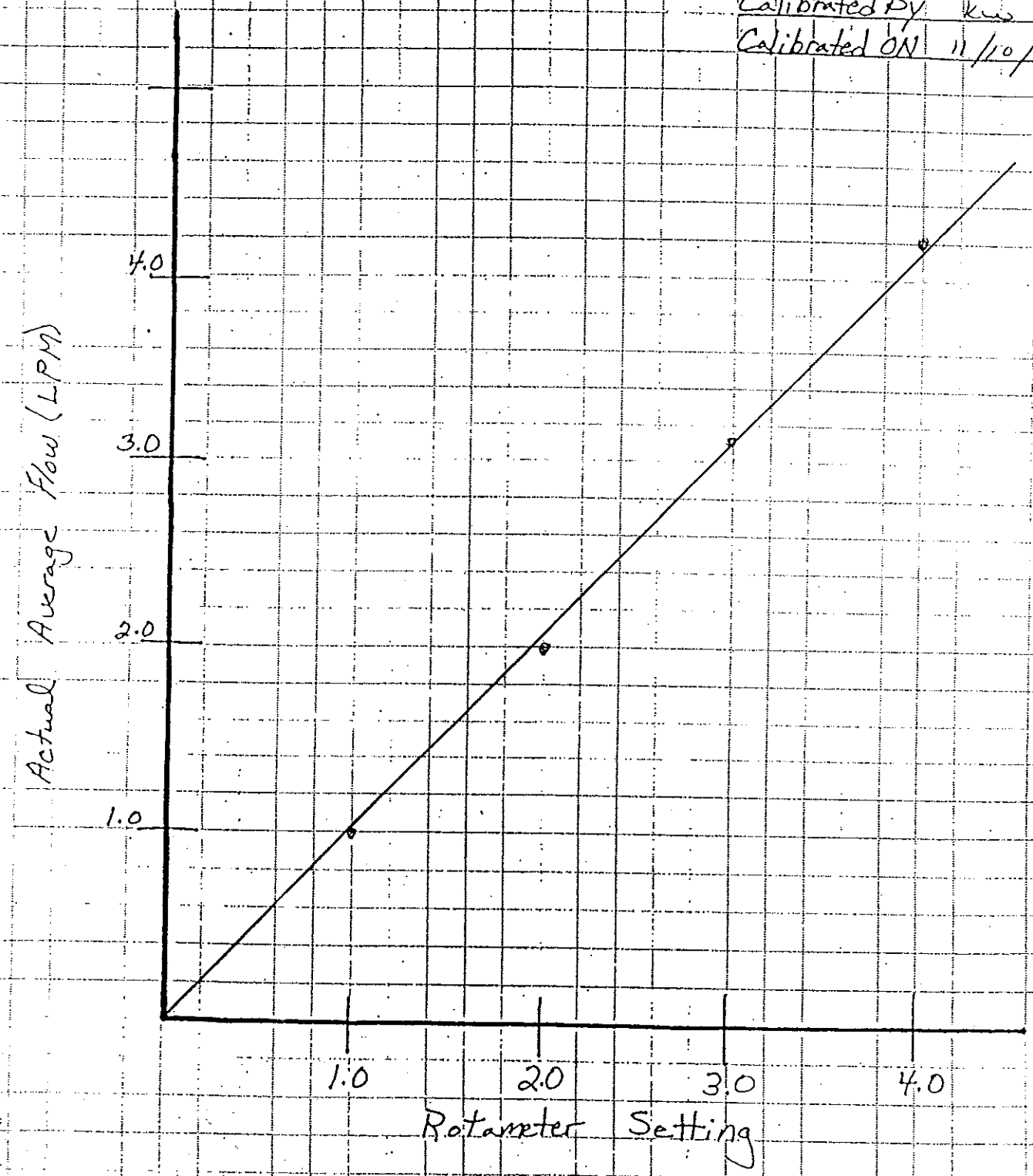
SUBJECT (Low Flow) Rotameter Calibration

(Calibrate to center of ball)

Rotameter # L-25

Calibrated By KWS

Calibrated ON 11/10/06



TRC

TRC Environmental

NoTe: Rotameter Calibrated using Center of Ball.

Calibrated with Primary Standard Electronic Dry-CAI DC-1 meter
Model: DC-1 Bios International Corp.
S/N TRC-

SHEET NO. 1 OF 2
PROJECT NO.
DATE
BY
CHK'D

SUBJECT Hi-flow Rotameter Calibration

Rotameter Setting	TRIAL 1	TRIAL 2	TRIAL 3	TRIAL 4	TRIAL 5		Average Flow LPM
4	3.620	3.427	3.787	3.417	3.816	X	3.613
8	7.841	7.885	7.836	7.861	7.931	X	7.871
12	11.87	12.02	11.92	11.90	11.90	X	11.92
16	15.79	15.81	15.75	15.90	15.88	X	15.83

ROTAMETER # H-2
CALIBRATED BY 3/31/06 due 5/12/06
DATE KW
TEMPERATURE 21.5

* LPM = Liters Per Minute

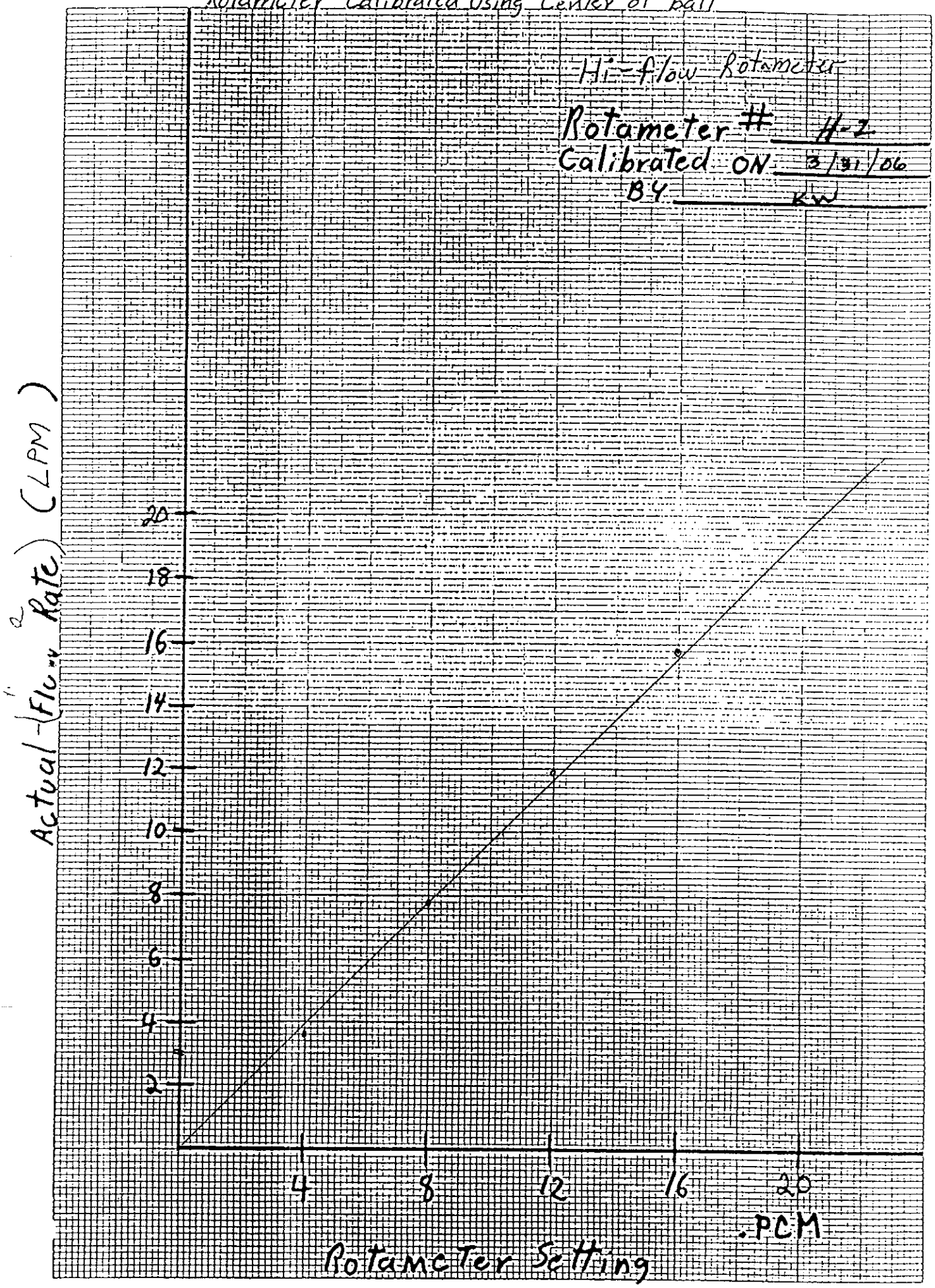
Rotameter calibrated using center of ball

Hi-flow Rotameter

Rotameter # H-2

Calibrated ON 3/31/06

BY KW



APPENDIX G
LABORATORY ANALYTICAL CERTIFICATIONS

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

TRC ENVIRONMENTAL CORPORATION

LOCATED AT 21 Griffin Road North IN Windsor, CT 06095

AND REGISTERED IN THE NAME OF Richard A. Love

THIS CERTIFICATE IS ISSUED IN THE NAME OF Henry Laliberte WHO HAS BEEN DESIGNATED BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

ASBESTOS
AIR-FIBER COUNTING - PCM
BULK IDENTIFICATION - PLM

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES December 31, 2007 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 22ND DAY OF DECEMBER 2005

Registration No.

PH- 0426

Ellen J. Blaschinski

CHIEF, REGULATORY SERVICES BRANCH

The American Industrial Hygiene Association

CELEBRATING 30 Thirty Years of AIHA Accrediting Labs

SOUND DATA SMART DECISIONS

1974 – 2004

acknowledges that

TRC Environmental Corporation

21 Griffin Road North, Windsor, CT 06095

Laboratory ID: 100122

has fulfilled the requirements of the AIHA Laboratory Quality Assurance Programs (LQAP), thereby, conforming to the ISO/IEC 17025:1999 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories.* The above named laboratory, along with all premises from which key activities are performed, as listed above, have been accredited by AIHA in the following:

ACCREDITATION PROGRAMS

✓	**INDUSTRIAL HYGIENE**	Accreditation Expires: 02/01/2008
☐	**ENVIRONMENTAL LEAD**	Accreditation Expires:
☐	**ENVIRONMENTAL MICROBIOLOGY**	Accreditation Expires:
☐	**FOOD**	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation.** Continued accreditation is contingent upon successful on-going compliance with LQAP requirements. This certificate is not valid without the attached **Scope of Accreditation.**

David Kahane, CIH
Chairperson, Analytical Accreditation Board

Roy M. Buchan, DrPH, CIH
President, AIHA

Date Issued: 2/24/2006

APPENDIX H
ASBESTOS AIR SAMPLE ANALYSIS AND CHAIN-OF-CUSTODY DATA

Supersede Previous Edition

AIR SAMPLE ANALYSIS REPORT

PROJECT NO.: 43500-6190-03 DATE: 3/6/07 PG 1 OF 1

CLIENT: DPW

SITE: Mystic Educational Center - Whipple bldg

ADDRESS: Mystic, CT

SAMPLER PRINT: Tom Martin SIGNATURE: Tom Martin DATE 3/6/07

ANALYST PRINT: T. Martin SIGNATURE: T. Martin DATE ANALYZED 3/7/07

QC ANALYST PRINT: T. Martin/MM SIGNATURE: T. Martin/MM DATE ANALYZED

LAB SUPERVISOR PRINT: H. Lebuste SIGNATURE: Henry J. Lebuste DATE ISSUED

QC MANAGER PRINT: SIGNATURE:

CONTACT/NAME:

PHONE NO.:

ROTOMETER NO.: L-25 DATE OF CALIBRATION: 11/10/06 LAB NO.: 334526

SAMPLE TYPE: α PCM TEM OTHER (SPECIFY)

ANALYSIS METHOD: α NIOSH 7400 Issue 2 8/15/94 AHERA OTHER (SPECIFY)

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory. QC-2/100 mm QC-6/100 mm

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	01	02	03	04			
SAMPLING LOCATION/ COMMENTS	rm 234 prep	rm 234/241 decon	hallway south of rm 234	FB.			
TYPE OF SAMPLE	2	4	4				
PUMP NUMBER							
START TIME/STOP TIME	0820/1140	1150/1430	1150/1430	/	/	/	/
TOTAL TIME (min)	200	160	160				
FLOW RATE	2.0/2.0	2.0/2.0	2.4/2.4	/	/	/	/
TOTAL VOLUME (l)	400	320	384				
FB/FL — BFB/BFL	3/100	6/100	3/100	0/03			
AIRBORNE FIBER CONC. (fibers/cc)	ND<0.007	0.009	ND<0.007	—			

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: Tom Martin DATE: 3/13/07 TIME:

RECEIVED BY: DATE: 3/14/07 TIME: 0730

RELINQUISHED BY: DATE TIME:

RECEIVED BY: DATE: TIME:

Condition of Sample: OK
Acceptable: Y N
Comments:

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # AL014538 AIHA/PAT # 100122 NVLAP # 101424-0
ME # LB-0071 VA # 3333000283 TX # 300354

TRC

Supersede Previous Edition

AIR SAMPLE ANALYSIS REPORT

PROJECT NO.: 43500-6190-03 DATE: 3/7/07 PG 1 OF 1

CLIENT: DPW

SITE: Mystic Educ. Center – Whipple bldg

ADDRESS: Mystic, CT

SAMPLER PRINT: Tom Martin SIGNATURE: Tom Martin DATE 3/7

ANALYST PRINT: T. Martin SIGNATURE: T. Martin DATE ANALYZED 3/8

QC ANALYST PRINT: T. Martin / [illegible] SIGNATURE: T. Martin / [illegible] DATE ANALYZED

LAB SUPERVISOR PRINT: H. LaSalvia SIGNATURE: Henry J. LaSalvia DATE ISSUED

QC MANAGER PRINT: SIGNATURE:

CONTACT/NAME:

PHONE NO.:

ROTOMETER NO.: L-25 DATE OF CALIBRATION: 11/10/06 LAB NO.: 33456

SAMPLE TYPE: X PCM TEM OTHER (SPECIFY)

ANALYSIS METHOD: X NIOSH 7400 Issue 2 8/15/94 AHERA OTHER (SPECIFY)

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	05	06	07	08			
SAMPLING LOCATION/ COMMENTS	rm 234/241 decon	hallway south of rm 234	1st floor conference room (under rm's 234+241)	FB			
TYPE OF SAMPLE	4	4	4				
PUMP NUMBER							
START TIME/STOP TIME	0740/1430	0740/1430	0745/1430		/	/	/
TOTAL TIME (min)	410	410	405				
FLOW RATE	2.2/2.1	2.2/2.0	2.0/2.0		/	/	/
TOTAL VOLUME (l)	882	860	810				
FB/FL — BFB/BFL	11/100	2/100	2/100	0/100			
AIRBORNE FIBER CONC. (fibers/cc)	0.006	ND<0.003	ND<0.003	—			

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: Tom Martin DATE: 3/13/07 TIME:

RECEIVED BY: [illegible] DATE: 3/14/07 TIME: 0730

RELINQUISHED BY: DATE TIME:

RECEIVED BY: DATE: TIME:

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # AL014538 AIHA/PAT # 100122 NVLAP # 101424-0
ME # LB-0071 VA # 3333000283 TX # 300354

Condition of Sample: OK
Acceptable: Y ✓ N
Comments:

TRC

Supersede Previous Edition

AIR SAMPLE ANALYSIS REPORT

CLIENT: DPW

SITE: Mystic Educ. Center - Whipple bldg

ADDRESS: Mystic, CT

CONTACT/NAME:

PHONE NO.:

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

PROJECT NO.: 43500-6190-03 DATE: 3/8/07 PG 1 OF 1

SAMPLER PRINT: T. Martin SIGNATURE: T. Martin DATE 3/8

ANALYST PRINT: T. Martin SIGNATURE: T. Martin DATE ANALYZED 3/8

QC ANALYST PRINT: T. Martin / [illegible] SIGNATURE: T. Martin / [illegible] DATE ANALYZED

LAB SUPERVISOR PRINT: H. Lalibarte SIGNATURE: Henry J. Lalibarte DATE ISSUED

QC MANAGER PRINT: SIGNATURE:

ROTOMETER NO.: H-2 **DATE OF CALIBRATION:** 11/10/06 **LAB NO.:** 33456

SAMPLE TYPE: X **PCM** **TEM** **OTHER (SPECIFY)**

ANALYSIS METHOD: X **NIOSH 7400** Issue 2 8/15/94 **AHERA** **OTHER (SPECIFY)**

QC - 0/100 qm QC - 7/100 qm

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	09	10	11	12	13	14	15
SAMPLING LOCATION/ COMMENTS	← Whipple Bldg - 2nd floor → ← Rooms 234 + 241 →					FB	FB
TYPE OF SAMPLE	6	6	6	6	6		
PUMP NUMBER							
START TIME/STOP TIME	0755/0915	0755/0915	0755/0915	0755/0915	0755/0915		
TOTAL TIME (min)	80	80	80	80	80		
FLOW RATE	15.0/15.0	15.0/15.0	15.0/15.0	15.0/15.0	15.0/15.0		
TOTAL VOLUME (l)	1200	1200	1200	1200	1200		
FB/FL — BFB/BFL	6/100	2/100	2/100	4/100	5/100	0/100	0/100
AIRBORNE FIBER CONC. (fibers/cc)	0.002	ND < 0.002	ND < 0.002	ND < 0.002	0.003	—	—

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: Tom Martin DATE: 3/13/07 TIME:

RECEIVED BY: [illegible] DATE: 3/14/07 TIME: 0730

RELINQUISHED BY: DATE TIME:

RECEIVED BY: DATE: TIME:

Condition of Sample: OK
Acceptable: Y N
Comments:

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # AL014538 AIHA/PAT # 100122 NVLAP # 101424-0
ME # LB-0071 VA # 3333000283 TX # 300354

TRC

APPENDIX I
ASBESTOS WASTE SHIPMENT RECORDS

606062

40 DH

1919

TRANS WASTE

arker Drive • Wallingford, CT 06492
) 269-8300 • Fax: (203) 269-8600

E.P.A. AGENCY

CT, MA, RI, VT, NH, ME GENERATORS

EPA New England
1 Congress Street
Boston, MA 02114-2023
(617) 918-1111

NY GENERATORS

EPA Region 2
290 Broadway, 26th Floor
New York, NY 10007-1866
(212) 637-3000

EMERGENCY RESPONSE TELEPHONE
#1-800-750-3460

ASBESTOS DISPOSAL & DOCUMENTATION FORM

b Number 201-2778 P.O. #

ntractor Petco Insulation Co., Inc.

ddress 88 Farwell Street

y West Haven State CT Zip 06516

elephone Number 203-934-3926

te Container Del. 3/7/07 Date of Pickup 4/11/07

ype of Container 40 YD

OLUME 1.51 CY Friable ☒ Non-Friable ☐

MUST BE IN CUBIC YARDS

ag ☒ Drum ☐ Wrapped ☐ Other ☐

RQ, ASBESTOS, 9, NA2212, PG III

GENERATOR/BUILDING OWNER

State of CT, DPW
Address
165 Capitol Ave
City State Zip
Hartford, CT 06106
Phone Number

GENERATING LOCATION

Mystic Education, Whipple Bldg, Apt 234
Address
240 School Road
City State Zip
Groton, CT
Phone Number

ertify the above named material does not contain free liquid as defined by 40 CFR part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR part 261 any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to NESHAP standards for asbestos waste osal found in 40 CFR part 61.150.

pper's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, arked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations.

UTHORIZED SIGNATURE W. Pelley

ransporter 1: _____
Name Address Telephone #

iver: _____ Registration #: _____ Date: _____
Signature State / #
Acknowledgement of receipt of materials.

ransporter 2: TransWaste, Inc., 3 Barker Drive, Wallingford, CT 06492 (203) 269-8300

ver: _____ Registration #: _____ Date: _____
Signature State / #
Acknowledgement of receipt of materials.

ransporter 3: TransWaste, Inc., 3 Barker Drive, Wallingford, CT 06492 (203) 269-8300
Name Address Telephone #

ver: Matt DeBaise Registration #: 42187A CT Date: 4-17-07
Signature State / #
Acknowledgement of receipt of materials.

e ☒: Modern Landfill Site ☐: BFI Imperial Landfill Site ☐:

ddress: 4400 Mount Pisgah Road Address: 11 Boggs Road Address:

York, PA 17402 Imperial, PA 15126

hone: 717-246-4615 Phone: 724-695-0900/L15Y43756 Phone:

Certification of receipt of materials covered by this manifest.

reby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

T. Sherbine T. Sherbine 4 17 07
ne of Authorized Agent Signature Receipt Date

COPY 1 - GENERATOR

COMPLIANCE REPORT FOR THE ABATEMENT OF ASBESTOS CONTAINING MATERIALS MYSTIC EDUCATION CENTER WHIPPLE BUILDING GROTON, CONNECTICUT

Project No. RM-07-04
DPW No. 16947

Prepared for
State of Connecticut Department of Public Works
Hartford, Connecticut

Prepared by
TRC
Windsor, Connecticut

Donald LePage
Project Manager

TRC Project No. 106957-7600-0003
May 25, 2008

TRC
21 Griffin Road North
Windsor, Connecticut 06095
Telephone 860-298-9692
Facsimile 860-298-6399

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1.0 EXECUTIVE SUMMARY

TRC of Windsor, Connecticut was retained by the State of Connecticut Department of Public Works (CTDPW) to provide project compliance and industrial hygiene services during the abatement of asbestos containing materials (ACM) conducted at the Mystic Education Center – Whipple Building, Oral School Road, Groton, Connecticut. TRC conducted this work per DAS Contract 03PSX0346AE which is effective from May 7, 2004 to September 30, 2008. Asbestos abatement was necessitated in accordance with the U.S. Environmental Protection Agency (USEPA) Asbestos National Emission Standard for Hazardous Air Pollutants (NESHAP) (40 CFR Part 61 Subpart M) as the building structure was scheduled for future renovation. The asbestos abatement contractor for the project was Petco Insulation Company, Inc. (Petco) of West Haven, Connecticut utilizing DAS Contract #03PSX0374AC. TRC was on site throughout the duration of the project to provide monitoring services.

The scope of work for the project, which took place from December 20, 2007 through January 8, 2008, involved the abatement of approximately 3,000 square feet (SF) of asbestos containing floor tile and mastic in the basement. Written notification of the abatement activity was filed with the Connecticut Department of Public Health (CT DPH) by Petco ten days prior to the initiation of the abatement work. A copy of the notification was submitted by Petco to TRC. All work conducted by Petco was performed in compliance with OSHA's Occupational Exposure to Asbestos Standard, 29 CFR 1926.1101, the CT DPH Standards for Asbestos Abatement, 19a-332a-1 through 16, and the EPA's Asbestos National Emission Standard for Hazardous Air Pollutants (NESHAP) 40 CFR Part 61 Subpart M. Petco is a licensed State of Connecticut Asbestos Abatement Contractor and all Petco employees performing work on this project were appropriately licensed, trained, and medically qualified to perform such work. Interior work on ACM floor tile/mastic was performed following a pre-approved CTDPH blanket Alternative Work Practice (AWP) with a negative pressure enclosure (NPE) consisting of critical barriers, a single layer of 6-mil poly and contiguous decontamination system (AWP Scenario #2).

Air samples were collected during abatement activities to monitor airborne asbestos fiber emissions and were transferred using proper chain-of-custody records to TRC's Accredited Laboratory in Windsor, Connecticut and analyzed on-site by an AIHA Registered Asbestos Analyst from TRC for Phase Contrast Microscopy (PCM) analysis via the National Institute for Occupational Safety and Health (NIOSH) 7400 method. All asbestos air samples collected by TRC (inside and outside of the work areas) were found to be below the OSHA Permissible Exposure Level (PEL).

After abatement activities, the work areas were visually inspected by a TRC licensed Asbestos Project Monitor following ASTM Standard E1368-90 to ensure complete abatement. Further, reoccupancy asbestos clearance air sampling was conducted by TRC in the interior NPE work areas. The interior NPE reoccupancy clearance air samples were collected and transported to ProScience Analytical Services, Inc. in Newington, Connecticut for TEM analysis via the AHERA method. TEM analysis was required in accordance with CTDPH regulations as the work area involved more than 1,500 SF or 500 LF of ACM. The interior NPE work areas received a satisfactory visual inspection on January 7, had TEM reoccupancy clearance air samples collected on January 8 and received acceptable reoccupancy clearance criteria air results on January 8, 2008.

The asbestos-containing waste generated during this project was containerized and labeled as asbestos waste in compliance with CTDEP/ CTDPH, OSHA, DOT and USEPA requirements. The waste was removed from the site in accordance with all state and federal disposal requirements, including the USEPA Asbestos NESHAP, and transported by Red Technologies, LLC of Bloomfield, Connecticut and Bumpus Trucking of Washington Courthouse, Ohio to Minerva Enterprises of Waynesburg, Ohio where it was deposited. Approximately fifteen (14.88) cubic yards of asbestos waste were removed from the project site.

This concluded TRC's on-site efforts for this project. Refer to Section 2.0 for TRC's complete site log notes documenting all aspects of the project on a daily basis.

2.0 SITE LOGS

TRC

SITE LOG

Page 1

Site / Station Mystic Education Center Mystic

Month / Year December / 2007

Project No

Date	Time	Instrument and TRC ID	Comments	Initials
12/20	0800		Dennis Ryder and Jared Smith onsite	
			for TRC, Petco onsite (2 workers)	JS
	0815		Petco does walthrough with school	
			maintenance, JS and DR bring in	
			equipment.	JS
	0830		Petco off Loads equipment to work	
			area in basement	JS
	0950		Petco finishes bringing in equipment, JS	
			starts 3 sampling pumps in work	JS
			area. One at east end of	
			hallway, one at west end of	
			hallway, and one in Room 27	JS
	1150		Petco has one layer of poly	
			on walls in east end of	
			hallway	JS
	1250		TRC collects area sampling	
			pumps, Petco, continues set-up	JS
	1330		Petco offsite, TRC offsite	JS
12/21	0700		TRC & Petco on site	DR
			Petco continues with	
			prep of hall & Rooms	
			on basement.	
	1030		Prep work approx 30%	DR
			complete.	
	1200		lunch	DR
	1230		" " over	DR
	1530		TRC & Petco off site	DR

SITE LOG

Page

Station CT DPW Mystic Education Whipple BldG
Groton, CT

Month / Year 12/07
Project No 106957-7600-003

Date	Time	Instrument and TRC ID	Comments	Initials
12/24/07	0645		3W	
			TRC/Petro on site. Petro continues	BA
			with prep work per AWP. Single	
	0730		Layer with initials and full Recon	
	0830		TRC sets out area samples	
			Petro continues with prep work.	BA
			in Whipple BldG basement. 3500 sq Ft	BA
			of Floor tile/Mastic to be abated. Blastrac	
			Machine to be used to remove mastic.	
			Rms 22-8 plus Adjacent Hall will be	
	100		in containment.	
			Prep continues. 4 Neg Air machines to	
	1100		be used.	BA
	1200		Prep continues in Whipple BldG basement.	
	1300		Lunch	BA
			Prep continues. Petro to let workers	BA
			leave early due to day being Christmas	BA
	1400		eve.	
12/26	0700		TRC/Petro off site	
			TRC/Petro back on-site Petro continues	BA
	0900		prep of Whipple BldG basement	BA
			Petro takes morning break. Prep about	
			70% completed. Petro starts to build	BA
	1100		bagout.	
			Bagout completed. Prep continues. 4 Neg	
	1200		Air machines installed.	BA
	1300		Lunch	
			Prep continues in South Hall section.	BA
			Rms 10-8.	BA
			Petro packs up for the day. will	
			continue prep tomorrow.	BA
			TRC/Petro off-site.	
				BA

TRC

SITE LOG

Page _____

Site / Station: CT DPW Mystic Education Center, Groton, CT

Month / Year: 12/07

Project No: 106957-7600-0003

Date	Time	Instrument and TRC ID	Comments	Initials
12/27	0800		TRC onsite, Petco already onsite and	
			continue prepping in Room # 8 on	
			south Hall in Whipple Building Basement	EH
	0845		EH sets up (2) Low flow prep	
			pumps in south Hallway Area.	EH
	1000		Walls are almost all prepped in south	
			Hall / Room area.	EH
	1030		EH Talks with supervisor Dave Soto	
			from Petco. Dave Tells EH they will	
			be prepping the whole day and possibly	
			Tomorrow as well.	EH
	1100		EH collects sign in sheet from Petco.	EH
	1200		Lunch	EH
	1230		Dave from Petco tells EH he has a container	
			+ Generator being Dropped off today or	
			Tomorrow.	EH
	1300		Petco continues prepping from inside Room	
			# 8.	EH
	1400		EH collects low flow pumps, Petco off-site	EH
	1415		EH finishes Day's paper work and	
			TRC off-site	EH

TRC

SITE LOG

Page _____

Site / Station: CT DPW - Mystic EDU center, Groton, CT

Month / Year: 12/07

Project No: 106957-7600-0003

Date	Time	Instrument and TRC ID	Comments	Initials
12/28	0800		TRC onsite. Petco already onsite and continue	
			prepping south end of Whipple Basement	EH
	0830		EH + mm set up Low flow pumps (2)	
			in south end of Basement. mm talks with	
			supervisor Dave sats and Dave tells mm	
			that they will not start Removal til	
			Monday. Today they will finish prepping and	
			Build Decon.	EH
			Petco project # is	
			Petco Insulation Co.Inc.	
			88 Farwell St	
			West Haven, CT 06516	
			Job No.201-3023	
			Date: 12/20/07	
			Name: MYSTIC ORAL SCHOOL WHIPPLE	
			MYSTIC ORAL SCHOOL ROAD	
			GROTON,CT	
				EH
	0900		EH + mm begin Day's paper work and sign	
			in sheets. mm fills out abatement	
			paperwork checklist and Everything is up	
			to Date.	EH
	1000		Dave from petco puts asbestos signs around	
			Exterior of Building so children stay away from	
			work Area	EH
	1100		Petco starts Building Decon and bag out	
			Area's in South side of Whipple Building Basement	EH
	1200		mm from TRC off-Site. Lunch	EH
	1300		Petco continues setting up Decon.	EH
	1410		EH collects Low flow pumps and finishes paper work.	EH
	1430		TRC + petco off-Site.	EH

TRC

SITE LOG

Page _____

Site / Station CT DPW Mystic Containment ED
Groton, CT

Month / Year 12/07
Project No 106957-7600-0003

Date	Time	Instrument and TRC ID	Comments	Initials
			2W	
12/31/07	0700		TRC/Petro on site. TRC performs	BA/RB
			pre-abatement round. RB/BA (TRC)	
	0730		TRC finds several items in cont that	BA
			need to be addressed per AHP.	
	0900		Petro takes morning break. TRC passes	BA
			pre-visual. Petro to start floor	
			tile abatement after morning break.	
	0930		Petro starts abatement. 2 AIR	BA
			samples set out by TRC.	
	1100		Petro Dennis O'Connor on site with	BA
			blast-trac and 3 more workers.	
	1120		Petro loads in Blastrac thru waste load	BA
			out.	
	1200		lunch	BA
	1300		Petro continues to abate floor tile.	BA
			4 workers now on site.	
	1500		Petro packs up for the day. Will return	BA
			1/2/08 to continue.	
1/2/08	0700	4W	TRC/Petro on site. Petro to continue	BA
			floor tile abatement in containment #1 in	
			the whipple BLDG. Waste container brought	
			to site and put in wrong area. Petro	
			calls to have container moved.	
	0900		Petro takes morning break	BA
	0930		Petro continues floor tile abatement.	BA
	1100		Floor tile abatement continues.	BA
	1200		lunch	BA
	1230		Petro informs TRC that OEAD blastmaching	BA
			is not working and that they will spend	
			rest of day bagging up abated floor tile.	
			cont	
			↓↓	

TRC

SITE LOG

Page _____

Site / Station CT DPW Mystic ED. Whipple BIPC

Month / Year 01/08

Project No 106957-000-003

Date	Time	Instrument and TRC ID	Comments	Initials
1/2/08	Cont			
	1400		Petco continues to bag up floor tile.	BA
			1 worker starts to remove mastic	
			with buffing machine	
1/3/08	0700		Petco & TRC on site	DR
			The Petco bead blaster is not	
			operating – Larry (electrician)	
			from Petco is on site.	
			Larry enters containment &	
			attempts repair of bead	
			blaster.	
	0845		Larry determines that transformer	DR
			for blaster needs replacement. Petco	
			will attempt to find part. Petco	
			will use chemicals to remove	
			mastic.	
	0930		Petco starts with floor	DR
			mastic remover chemicals.	
	1200		lunch	DR
	1230		" " over	DR
			chemical removal continues.	
	1430		Containment is approximately	DR
			75% stripped of mastic.	
	1530		Petco & TRC off site.	DR
1/4/08	0700		TRC & Petco workers on	DR
			site. Dave Soto from Petco	
			(supervisor) is getting supplies	
			at Petco shop (Anne Stringer)	
			and will be here soon.	
	0730		Dave Soto on site. Workers	

TRC

SITE LOG

Page _____

Site / Station CT DPW
Mystic Ed Bldg - Whipple

Month / Year 1/08
Project No 106957.76W.WWS

Date	Time	Instrument and TRC ID	Comments	Initials
1/4/08			start load-out of bagged floor tile.	
	0830		load out complete.	DR
	0930		Petro workers continue with chemical removal of floor mastic.	DR
	1200		lunch.	DR
	1230		" " over	DR
			Dennis O'Connor informs Dave S. that a window in Whipple needs to be replaced. The caulk is ACM. Will likely remove window on Monday with exterior removal.	
	1330		Harold from Facilities shows Petro + TRC the window slated for removal.	DR
			mastic removal continues	
	1500		containment should be ready for post abatement visual on Monday morning	DR
	1530		Petro + TRC off site	DR
1/7/08	0700		TRC & Petro on site. Petro enters containment for final cleaning.	
	0915		workers take break. Dennis O'Connor (Petro) on site.	
	1015		D.R. enters containment for post abate visual	
	1030		visual passes - + Petro locks down.	

TRC

SITE LOG

Page _____

Site / Station: CT DPW
Mystic Ed Bldg - Whipple

Month / Year: 1/08
Project No: 106952.7600.0003

Date	Time	Instrument and TRC ID	Comments	Initials
1/7/08	1130		Petro off site for today	DR
	1200		DR drives to Norwich (3 Rivers) to drop-off samples to Greg K at TRC	DR
			DR drives to Office	
1/8/08	0700		TRC & Petro on site.	DR
	0720		DR enter Basement containment to set-up TEM sampling.	DR
	0750		Start TEM.	DR
	0815		Petro starts to set up area on 1st floor where window above entrance door is to be removed. - near Room 162 -	DR
	0845		start area sampling & Petro starts removal at 0855	DR
	0950		Remove TEM samplers.	DR.
	1120		Window removal complete remove area samplers.	DR

PROJECT OUTLINE

Project Address:	Mystic Education Center – Whipple Building Oral School Road Groton, CT
DAS Contract Number:	03PSX0346AE
DPW Project Manager:	James Sinclair
DPW Project No.:	RM-07-04
DPW Building No.:	16947
TRC Project No.:	106957-7600-0003
Date(s) of Project:	12/20/07-1/8/08
TRC Project Manager:	Donald LePage
TRC Project Monitor(s)/Inspector(s):	Jared Smith (#000606) – PM Dennis Ryder (#000443) – PM Bryce Aston (#000293) – PM Michelle Murphy (#000581) – PM
Abatement Contractor:	Petco Insulation Co., Inc. (#000036)
Materials Abated:	~3,000 SF ACM floor tile/mastic – facility basement
Waste Hauler(s):	Red Technologies, LLC, Bloomfield, CT Bumpus Trucking, Washington Courthouse, OH
Asbestos Landfill:	Minerva Enterprises, Waynesburg, Ohio
Asbestos Waste Generated:	~ Fifteen (14.88) cubic yards (CY)

APPENDIX A
NOTIFICATIONS/ALTERNATIVE WORK PRACTICES

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
ASBESTOS ABATEMENT NOTIFICATION FORM

State Use Only

Post Mark Date: _____
Check #: _____
Amount: _____
Transmittal # _____
Record #: _____

This form is to be completed, postmarked and filed with the Connecticut Department of Public Health ten (10) days prior to the start of asbestos abatement, as required by the Regulations of Connecticut State Agencies, Section 19a-332a-3. In case of emergency notifications, this form is to be completed and postmarked within one (1) working day following the start of asbestos abatement. The U.S. EPA may require notification of abatement or demolition, as per 40 CFR, Part 61, the asbestos NESHAP regulation. Faxed originals are not acceptable. Revisions may be faxed unless a fee is required.

(fill in or circle each item)

1. TYPE OF NOTIFICATION

A. NEW X **B. BLANKET** ____ **C. CANCELLATION / POSTPONED (C)** ____ **(P)** ____
D. REVISED ____ **(ITEMS REVISED)** _____ **REVISION #:** _____
E. EMERGENCY ____ **DESCRIBE NATURE OF EMERGENCY** _____

2. ABATEMENT CONTRACTOR:
Name: Petco Insulation Company, Inc. License #: 000036
Address: 88 Farwell Street, P.O. Box 26127
City: West Haven State: Connecticut Zip Code: 06516
Phone #: (203)934-3926 Contact Person: James Reilly

3. FACILITY OWNER/OPERATOR:
Name: State of Connecticut, Department of Public Works
Address: 165 Capitol Avenue
City: Hartford State: Connecticut Zip Code: 06106
Phone #: (860)713-5821 Contact Person: Jim Sinclair

4. NAME OF FACILITY: (MUST BE FILLED IN)
Name: Mystic Education, Whipple Hall
Address: Mystic Oral School Road
City: Groton State: Connecticut Zip Code: _____

5.(A) START DATE: 12/10/07 **5. (B) COMPLETION DATE:** 12/21/07

FOR PROJECTS INVOLVING 160 SQ FT OR MORE OF ASBESTOS

IF APPLICABLE
6. (A) TOTAL COST OF ABATEMENT: _____ **6. (B) REVISED COST:** _____

Mail to:
Connecticut DPH
Division of Environmental Health
Indoor Air Program
410 Capitol Avenue, MS 51 AIR
PO Box 340308
Hartford, CT 06134-0308

Phone: (860) 509-7367/ Fax: (860) 509-7378
An Equal Opportunity Employer

7. USE OF FACILITY:

A. School (K-12) ____ B. Public Building ____ C. Manufacturing ____
D. Office ____ E. College ____ F. Commercial ____
G. Church/Synagogue ____ H. Residential, # of dwellings ____ I. Other X (SPECIFY) DMR Facility

8. BUILDING DATA:

SQUARE FEET: 24,457 Number of floors: 3 Age: 39 yrs old

9. ABATEMENT CLASSIFICATION:

A. Renovation: X B. Demolition: ____ C. Ordered Demolition – Agency Issuing Order: ____
NOTE: Attach Demolition Order

10. ABATEMENT TECHNIQUE:

A. Full Containment with Neg. Air X B. Alternative Work Practice (preapproval required) X
Project Designer / License # DPW Blanket AWP, Scenario #2
C. Exterior Abatement ____ D. SPOT REPAIR (>25 SQ FT TOTAL) ____

11. ABATEMENT METHOD:

A. Removal X
B Encapsulation ____
C .Enclosure ____

12. TYPE OF DECONTAMINATION SYSTEM:

A. Contiguous X B. Remote X

13. TYPE AND AMOUNT OF ASBESTOS TO BE ABATED: (REPORTED IN SQUARE FEET)

FRIABLE MATERIAL

A. Sprayed or Troweled on		Sq. ft.	E. Duct Insulation		Sq. ft.
B. Boiler Insulation		Sq. ft.	F. Ceiling Tiles		Sq. ft.
C. Tank Insulation		Sq. ft.	G. Other, Specify:		Sq. ft.
D. Breeching Insulation		Sq. ft.	H. Pipe Insulation*		Sq. ft.
*Pipe Insulation	Total Linear Feet				

Pipe diameter" Linear Feet multiplied by conversion factor* equals Total Sq ft (*see Notif. Conversion table)

	In.		LF	x		
	In.		LF	x		
	In.		LF	x		
	In.		LF	x		

NONFRIABLE MATERIAL

Category I	square feet	Category II	square feet
I. Floor coverings/tiles	3,000	L. Transite Board	
J. Roofing, specify:		M. Other, specify:	
K. Gaskets, packings			

14. WASTE DIPSOSAL SITE (IF MULTIPLE SITES, LIST SEPARATELY):

Name	Minerva Enterprises	OR	Waste Management of New Hampshire	OR	Hakes C&D Landfill
Address	9000 Minerva Road		97 Rochester Neck Road		4376 Manning Ridge Rd
City, State, Zip	Waynesburg, OH 44688		Rochester, NH 03063		Painted Post, NY 14870
Owner, Operator					

15. HAULER/WASTE TRANSPORTER:

Name	Red Technologies, LLC
Address	10 Northwood Drive
City, State, Zip	Bloomfield, CT 06002

Name of Individual Completing This Form James Reilly

State Use Only

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
ASBESTOS ABATEMENT NOTIFICATION FORM

Post Mark Date: _____
Check #: _____
Amount: _____
Transmittal # _____
Record #: _____

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(fill in or circle each item)

1. TYPE OF NOTIFICATION

A. NEW ____ **B. BLANKET** ____ **C. CANCELLATION / POSTPONED (C)** ____ **(P)** X
D. REVISED X **(ITEMS REVISED)** 1(C), 5(A) & 5(B) **REVISION #:** 1
E. EMERGENCY ____ **DESCRIBE NATURE OF EMERGENCY** _____

2. ABATEMENT CONTRACTOR:
Name: Petco Insulation Company, Inc. License #: 000036
Address: 88 Farwell Street, P.O. Box 26127
City: West Haven State: Connecticut Zip Code: 06516
Phone #: (203)934-3926 Contact Person: James Reilly

3. FACILITY OWNER/OPERATOR:
Name: State of Connecticut, Department of Public Works
Address: 165 Capitol Avenue
City: Hartford State: Connecticut Zip Code: 06106
Phone #: (860)713-5821 Contact Person: Jim Sinclair

4. NAME OF FACILITY: (MUST BE FILLED IN)
Name: Mystic Education, Whipple Hall
Address: Mystic Oral School Road
City: Groton State: Connecticut Zip Code: _____

5.(A) START DATE: POSTPONED **5. (B) COMPLETION DATE:** POSTPONED

FOR PROJECTS INVOLVING 160 SQ FT OR MORE OF ASBESTOS

IF APPLICABLE
6. (A) TOTAL COST OF ABATEMENT: _____ **6. (B) REVISED COST:** _____

Mail to:
Connecticut DPH
Division of Environmental Health
Indoor Air Program
410 Capitol Avenue, MS 51 AIR
PO Box 340308
Hartford, CT 06134-0308

Phone: (860) 509-7367/ Fax: (860) 509-7378
An Equal Opportunity Employer

7. USE OF FACILITY:

A. School (K-12) ____ B. Public Building ____ C. Manufacturing ____
D. Office ____ E. College ____ F. Commercial ____
G. Church/Synagogue ____ H. Residential, # of dwellings ____ I. Other X (SPECIFY) DMR Facility

8. BUILDING DATA:

SQUARE FEET: 24,457 Number of floors: 3 Age: 39 yrs old

9. ABATEMENT CLASSIFICATION:

A. Renovation: X B. Demolition: ____ C. Ordered Demolition – Agency Issuing Order: ____
NOTE: Attach Demolition Order

10. ABATEMENT TECHNIQUE:

A. Full Containment with Neg. Air X B. Alternative Work Practice (preapproval required) X
Project Designer / License # DPW Blanket AWP, Scenario #2
C. Exterior Abatement ____ D. SPOT REPAIR (>25 SQ FT TOTAL) ____

11. ABATEMENT METHOD:

A. Removal X
B Encapsulation ____
C .Enclosure ____

12. TYPE OF DECONTAMINATION SYSTEM:

A. Contiguous X B. Remote X

13. TYPE AND AMOUNT OF ASBESTOS TO BE ABATED: (REPORTED IN SQUARE FEET)

FRIABLE MATERIAL

A. Sprayed or Troweled on		Sq. ft.	E. Duct Insulation		Sq. ft.
B. Boiler Insulation		Sq. ft.	F. Ceiling Tiles		Sq. ft.
C. Tank Insulation		Sq. ft.	G. Other, Specify:		Sq. ft.
D. Breeching Insulation		Sq. ft.	H. Pipe Insulation*		Sq. ft.
*Pipe Insulation	Total Linear Feet				

Pipe diameter" Linear Feet multiplied by conversion factor* equals Total Sq ft (*see Notif. Conversion table)

	In.		LF	x		
	In.		LF	x		
	In.		LF	x		
	In.		LF	x		

NONFRIABLE MATERIAL

Category I	square feet	Category II	square feet
I. Floor coverings/tiles	3,000	L. Transite Board	
J. Roofing, specify:		M. Other, specify:	
K. Gaskets, packings			

14. WASTE DIPSOSAL SITE (IF MULTIPLE SITES, LIST SEPARATELY):

Name	Minerva Enterprises	OR	Waste Management of New Hampshire	OR	Hakes C&D Landfill
Address	9000 Minerva Road		97 Rochester Neck Road		4376 Manning Ridge Rd
City, State, Zip	Waynesburg, OH 44688		Rochester, NH 03063		Painted Post, NY 14870
Owner, Operator					

15. HAULER/WASTE TRANSPORTER:

Name	Red Technologies, LLC
Address	10 Northwood Drive
City, State, Zip	Bloomfield, CT 06002

Name of Individual Completing This Form James Reilly

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
ASBESTOS ABATEMENT NOTIFICATION FORM

State Use Only

Post Mark Date:_____
Check #: _____
Amount:_____
Transmittal #_____
Record #:_____

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(fill in or circle each item)

1. TYPE OF NOTIFICATION

A. NEW ____ **B. BLANKET** ____ **C. CANCELLATION / POSTPONED (C)** ____ **(P)** ____
D. REVISED X **(ITEMS REVISED)** 1(C), 5(A) & 5(B) **REVISION #:** 2
E. EMERGENCY ____ **DESCRIBE NATURE OF EMERGENCY** _____

2. ABATEMENT CONTRACTOR:
Name: Petco Insulation Company, Inc. License #: 000036
Address: 88 Farwell Street, P.O. Box 26127
City: West Haven State: Connecticut Zip Code: 06516
Phone #: (203)934-3926 Contact Person: James Reilly

3. FACILITY OWNER/OPERATOR:
Name: State of Connecticut, Department of Public Works
Address: 165 Capitol Avenue
City: Hartford State: Connecticut Zip Code: 06106
Phone #: (860)713-5821 Contact Person: Jim Sinclair

4. NAME OF FACILITY: (MUST BE FILLED IN)
Name: Mystic Education, Whipple Hall
Address: Mystic Oral School Road
City: Groton State: Connecticut Zip Code: ____

5.(A) START DATE: 12/20/07 **5. (B) COMPLETION DATE:** 1/9/08

FOR PROJECTS INVOLVING 160 SQ FT OR MORE OF ASBESTOS

IF APPLICABLE
6. (A) TOTAL COST OF ABATEMENT: _____ **6. (B) REVISED COST:** _____

Mail to:
Connecticut DPH
Division of Environmental Health
Indoor Air Program
410 Capitol Avenue, MS 51 AIR
PO Box 340308
Hartford, CT 06134-0308

Phone: (860) 509-7367/ Fax: (860) 509-7378
An Equal Opportunity Employer

7. USE OF FACILITY:

A. School (K-12) ____ B. Public Building ____ C. Manufacturing ____
D. Office ____ E. College ____ F. Commercial ____
G. Church/Synagogue ____ H. Residential, # of dwellings ____ I. Other X (SPECIFY) DMR Facility

8. BUILDING DATA:

SQUARE FEET: 24,457 Number of floors: 3 Age: 39 yrs old

9. ABATEMENT CLASSIFICATION:

A. Renovation: X B. Demolition: ____ C. Ordered Demolition – Agency Issuing Order: ____
NOTE: Attach Demolition Order

10. ABATEMENT TECHNIQUE:

A. Full Containment with Neg. Air X B. Alternative Work Practice (preapproval required) X
Project Designer / License # DPW Blanket AWP, Scenario #2
C. Exterior Abatement ____ D. SPOT REPAIR (>25 SQ FT TOTAL) ____

11. ABATEMENT METHOD:

A. Removal X
B Encapsulation ____
C .Enclosure ____

12. TYPE OF DECONTAMINATION SYSTEM:

A. Contiguous X B. Remote X

13. TYPE AND AMOUNT OF ASBESTOS TO BE ABATED: (REPORTED IN SQUARE FEET)

FRIABLE MATERIAL

A. Sprayed or Troweled on		Sq. ft.	E. Duct Insulation		Sq. ft.
B. Boiler Insulation		Sq. ft.	F. Ceiling Tiles		Sq. ft.
C. Tank Insulation		Sq. ft.	G. Other, Specify:		Sq. ft.
D. Breeching Insulation		Sq. ft.	H. Pipe Insulation*		Sq. ft.
*Pipe Insulation	Total Linear Feet				

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	In.		LF	x		
	In.		LF	x		
	In.		LF	x		
	In.		LF	x		

NONFRIABLE MATERIAL

Category I	square feet	Category II	square feet
I. Floor coverings/tiles	3,000	L. Transite Board	
J. Roofing, specify:		M. Other, specify:	
K. Gaskets, packings			

14. WASTE DIPSOSAL SITE (IF MULTIPLE SITES, LIST SEPARATELY):

Name	Minerva Enterprises	OR	Waste Management of New Hampshire	OR	Hakes C&D Landfill
Address	9000 Minerva Road		97 Rochester Neck Road		4376 Manning Ridge Rd
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Owner, Operator					

15. HAULER/WASTE TRANSPORTER:

Name	Red Technologies, LLC
Address	10 Northwood Drive
City, State, Zip	Bloomfield, CT 06002

Name of Individual Completing This Form James Reilly

State Use Only

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
ASBESTOS ABATEMENT NOTIFICATION FORM

Post Mark Date:_____
Check #: _____
Amount:_____
Transmittal #_____
Record #:_____

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(fill in or circle each item)

1. TYPE OF NOTIFICATION

A. NEW ____ **B. BLANKET** ____ **C. CANCELLATION / POSTPONED (C)** ____ **(P)** ____
D. REVISED X **(ITEMS REVISED)** 5(B) **REVISION #:** 3
E. EMERGENCY ____ **DESCRIBE NATURE OF EMERGENCY** _____

2. ABATEMENT CONTRACTOR:
Name: Petco Insulation Company, Inc. License #: 000036
Address: 88 Farwell Street, P.O. Box 26127
City: West Haven State: Connecticut Zip Code: 06516
Phone #: (203)934-3926 Contact Person: James Reilly

3. FACILITY OWNER/OPERATOR:
Name: State of Connecticut, Department of Public Works
Address: 165 Capitol Avenue
City: Hartford State: Connecticut Zip Code: 06106
Phone #: (860)713-5821 Contact Person: Jim Sinclair

4. NAME OF FACILITY: (MUST BE FILLED IN)
Name: Mystic Education, Whipple Hall
Address: Mystic Oral School Road
City: Groton State: Connecticut Zip Code: ____

5.(A) START DATE: 12/20/07 **5. (B) COMPLETION DATE:** 1/11/08

FOR PROJECTS INVOLVING 160 SQ FT OR MORE OF ASBESTOS

IF APPLICABLE
6. (A) TOTAL COST OF ABATEMENT: _____ **6. (B) REVISED COST:** _____

Mail to:
Connecticut DPH
Division of Environmental Health
Indoor Air Program
410 Capitol Avenue, MS 51 AIR
PO Box 340308
Hartford, CT 06134-0308

Phone: (860) 509-7367/ Fax: (860) 509-7378
An Equal Opportunity Employer

7. USE OF FACILITY:

A. School (K-12) ____ B. Public Building ____ C. Manufacturing ____
D. Office ____ E. College ____ F. Commercial ____
G. Church/Synagogue ____ H. Residential, # of dwellings ____ I. Other X (SPECIFY) DMR Facility

8. BUILDING DATA:

SQUARE FEET: 24,457 Number of floors: 3 Age: 39 yrs old

9. ABATEMENT CLASSIFICATION:

A. Renovation: X B. Demolition: ____ C. Ordered Demolition – Agency Issuing Order: ____
NOTE: Attach Demolition Order

10. ABATEMENT TECHNIQUE:

A. Full Containment with Neg. Air X B. Alternative Work Practice (preapproval required) X
Project Designer / License # DPW Blanket AWP, Scenario #2
C. Exterior Abatement ____ D. SPOT REPAIR (>25 SQ FT TOTAL) ____

11. ABATEMENT METHOD:

A. Removal X
B Encapsulation ____
C .Enclosure ____

12. TYPE OF DECONTAMINATION SYSTEM:

A. Contiguous X B. Remote X

13. TYPE AND AMOUNT OF ASBESTOS TO BE ABATED: (REPORTED IN SQUARE FEET)

FRIABLE MATERIAL

A. Sprayed or Troweled on		Sq. ft.	E. Duct Insulation		Sq. ft.
B. Boiler Insulation		Sq. ft.	F. Ceiling Tiles		Sq. ft.
C. Tank Insulation		Sq. ft.	G. Other, Specify:		Sq. ft.
D. Breeching Insulation		Sq. ft.	H. Pipe Insulation*		Sq. ft.
*Pipe Insulation	Total Linear Feet				

Pipe diameter" Linear Feet multiplied by conversion factor* equals Total Sq ft (*see Notif. Conversion table)

	In.		LF	x		
	In.		LF	x		
	In.		LF	x		
	In.		LF	x		

NONFRIABLE MATERIAL

Category I	square feet	Category II	square feet
I. Floor coverings/tiles	3,000	L. Transite Board	
J. Roofing, specify:		M. Other, specify:	
K. Gaskets, packings			

14. WASTE DIPSOSAL SITE (IF MULTIPLE SITES, LIST SEPARATELY):

Name	Minerva Enterprises	OR	Waste Management of New Hampshire	OR	Hakes C&D Landfill
Address	9000 Minerva Road		97 Rochester Neck Road		4376 Manning Ridge Rd
City, State, Zip	Waynesburg, OH 44688		Rochester, NH 03063		Painted Post, NY 14870
Owner, Operator					

15. HAULER/WASTE TRANSPORTER:

Name	Red Technologies, LLC
Address	10 Northwood Drive
City, State, Zip	Bloomfield, CT 06002

Name of Individual Completing This Form James Reilly

State of Connecticut
Department of Public Health
Alternative Work Practice (AWP)
Approval Form

Check box for applicable AWP scenario

☐ **1. Renovation Projects – Removal of Friable Asbestos-Containing Material (ACM) Using the Glove-Bag Method**
Variance from Section 19a-332a-5(e)

Abatement work in facilities subject to this approval shall be conducted with appropriate signage, as required by Section 19a-332a-5(a). In lieu of the requirements of Section 19a-332a-5(e), the friable asbestos-containing material shall be removed utilizing the glove-bag procedure outlined in 29 CFR 1926.1101, of the Department of Labor, Occupational Safety and Health Administration regulation. In addition to the glove-bag procedure, the work area is to be isolated from the non-work area by establishing an air-tight barrier of 6 mil polyethylene sheeting covering or composing the wall surfaces and covering the floor surface. In areas where this barrier does not extend to the ceiling, the layer of 6 mil polyethylene sheeting shall compose the ceiling of the air-tight enclosure.

☒ **2. Renovation Projects – Removal of Non-friable ACM**
Variance from Section 19a-332a-5(e)

Abatement work in facilities subject to this approval shall be conducted with appropriate signage, as required by Section 19a-332a-5(a). In lieu of the requirements of Section 19a-332a-5(e), the work area shall be isolated from the non-work area by barriers as outlined in Section 19a-332a-5(c). Additionally, a single layer of 4 or 6 mil polyethylene sheeting shall be used to seal the wall surfaces in the work area. This scenario is limited to non-friable flooring/treading, cove base, mastic/glue, transite/cementitious materials, glue daubs, gaskets, caulking, putty and asphalt materials unless written approval by DPH is granted.

☐ **3. Demolition Projects, Sound Structure – Removal of Friable ACM Using the Glove-Bag Method**
Variance from Section 19a-332a-5(e)

Abatement work in facilities subject to this approval shall be conducted with appropriate signage, as required by Section 19a-332a-5(a). In lieu of the requirements of Section 19a-332a-5(e), the work area shall be isolated from the non-work area by barriers as outlined in Section 19a-332a-5(c). The friable asbestos-containing material shall be removed utilizing the glove-bag procedure outlined in 29 CFR 1926.1101 of the Department of Labor, Occupational Safety and Health Administration regulation. Negative pressure ventilation will be established in accordance with Section 19a-332a-5(h). The work area shall be visually inspected and pass the no visible debris criteria of Sections 19a-332a-5(g) and 19a-332a-7(c). In addition, when the building is to be reoccupied by any person prior to demolition, post abatement reoccupancy air testing shall be performed in accordance with Section 19a-332a-12.

☐ **4. Demolition Projects, Sound Structure – Removal of Non-friable ACM**
Variance from Section 19a-332a-5(e)

Abatement work in facilities subject to this approval shall be conducted with appropriate signage, as required by Section 19a-332a-5(a). In lieu of the requirements of Section 19a-332a-5(e), the work area is to be isolated from the non-work area by barriers as outlined in Section 19a-332a-5(c). Negative pressure ventilation will be established in accordance with Section 19a-332a-5(h). This work practice is applicable *only* for removal of non-friable ACM. For the purposes of this approval, non-friable ACM is limited to non-friable flooring/treading, cove base, mastic/glue, transite/cementitious materials, glue daubs, gaskets, caulking, putty and asphalt materials unless written approval by DPH is granted.

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

March 20, 2007

Edward P. Fennell
ATC Associates
290 Roberts Street, Suite 204
East Hartford, CT 06108

Re: Application for Approval of Alternative Work Practice for Renovation and Demolition of Various Properties Owned By the State of Connecticut Department of Public Works

Dear Mr. Fennel:

This letter is in response to an application from you prepared March 13, 2007, requesting approval of a blanket alternative work practice for the removal of various asbestos-containing materials (ACM) associated with the renovation and demolition of various properties owned by the State of Connecticut Department of Public Works. Based upon the information provided in the application describing the proposed alternative work practices, *conditional* approval is granted by the Department of Public Health (DPH). This *conditional* approval of the requested variance is granted only as applied to the specific scenarios given below. *As a condition of approval, each asbestos abatement contractor utilizing these approved alternative work practices shall submit a copy of this approval letter with the asbestos abatement notification form submitted for each project site. The notification form or accompanying documentation shall clearly reference the AWP scenario(s) to be utilized in performing that abatement. Further, the notification or accompanying documentation shall clearly indicate the quantity(ies) and type(s) of asbestos-containing material to be removed by each scenario.*

In all the following scenarios, the required signs shall be posted, in accordance with Subsection 19a-332a-5(a).

Scenario 1 – Renovation Projects: Friable ACM, Glove-Bag Method

In lieu of the requirements of Subsection 19a-332a-5(e), the work area is to be isolated from the non-work area by barriers as outlined in Subsection 19a-332a-5(c). Additionally, a single layer of 6-mil polyethylene sheeting shall be used to seal or compose the wall surfaces and cover the floor surfaces in the work area. In areas where this barrier does not extend to the ceiling, the layer of six-mil polyethylene sheeting shall compose the ceiling of the airtight enclosure. The friable ACM shall be abated using the glove bag procedure, as outlined in 29 CFR 1926.1101. The work area shall pass the no visible residue criterion of Subsections 19a-332a-5(g) and 19a-332a-7(c) prior to encapsulation, as determined by a licensed Project Monitor.

Scenario 2 – Renovation Projects: Nonfriable ACM

In lieu of the requirements of Subsection 19a-332a-5(e), the work area is to be isolated from the non-work area by barriers as outlined in Subsection 19a-332a-5(c). Additionally, a single layer of 4-mil or 6-mil polyethylene sheeting shall be used to seal the wall surfaces in the work area. In areas where this barrier does not extend to the ceiling, the layer of polyethylene sheeting shall compose the ceiling of the airtight enclosure. The work area shall

Phone: (860)509-7367 Fax: (860)509-7378
Telephone Device for the Deaf: (860) 509-7191
410 Capitol Avenue - MS # 51AIR
P.O. Box 340308 Hartford, CT 06134
Affirmative Action / An Equal Opportunity Employer

pass the no visible residue criterion of Subsections 19a-332a-5(g) and 19a-332a-7(c) prior to encapsulation, as determined by a licensed Project Monitor. This work practice is applicable only to nonfriable ACM. Nonfriable ACM is limited to: flooring/treading, cove base, mastic/glues, transite/cementitious materials, glue daubs, gaskets, glazings, caulkings, putty, and asphalt materials, unless written approval by the DPH is granted.

Scenario 3 – Demolition, sound structure: Friable ACM, Glove-Bag Method

In lieu of the requirements of Subsection 19a-332a-5(e), the work area is to be isolated from the non-work area by barriers as outlined in Subsection 19a-332a-5(c). Negative pressure ventilation will be established in accordance with Subsection 190a-332a-5(h). The friable ACM shall be abated using the glove bag procedure, as outlined in 29 CFR 1926.1101. In conjunction with the glove bag procedure, a single layer of polyethylene sheeting shall be placed on the floor beneath the pipe insulation to serve as a drop cloth. The work area shall pass the no visible residue criterion of Subsections 19a-332a-5(g) and 19a-332a-7(c) prior to demolition, as determined by a licensed Project Monitor. Post abatement reoccupancy air testing is mandatory if the building shall be reoccupied.

Scenario 4 – Demolition, sound structure: Nonfriable ACM

In lieu of the requirements of Subsection 19a-332a-5(e), the work area is to be isolated from the non-work area by barriers as outlined in Subsection 19a-332a-5(c). Negative pressure ventilation will be established in accordance with Subsection 190a-332a-5(h). The work area shall pass the no visible residue criterion of Subsections 19a-332a-5(g) and 19a-332a-7(c) prior to demolition, as determined by a licensed Project Monitor. Post abatement reoccupancy air testing is mandatory if the building shall be reoccupied. This work practice is applicable only to nonfriable ACM. Nonfriable ACM is limited to: flooring/treading, cove base, mastic/glues, transite/cementitious materials, glue daubs, gaskets, glazings, caulkings, putty and asphalt materials, unless written approval by the DPH is granted.

Except as noted in this letter, all other work practices specified in the Standards for Asbestos Abatement regulation are mandatory. This approval is specific to the identified facility and does not relieve the contractor or facility owner from any other federal, state or municipal regulations. The Department reserves the right to rescind this approval should it determine that equivalent means of asbestos emission control are not maintained.

Please feel free to contact this office should you wish to discuss this matter further.

Sincerely,

Jimmy Davila
Environmental Sanitarian I
Asbestos Program
Environmental Health Section

APPENDIX B
CONTRACTOR CERTIFICATIONS/LICENSES

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
ROBERT LEACH

VALIDATION NO.	CERTIFICATION NO.	CURRENT THROUGH
03-502033	000637	05/31/08

PROFESSION
ASBESTOS ABATEMENT SUPERVISOR

SIGNATURE

J Robert Galvin MD, MSc.
COMMISSIONER

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

ROBERT M LEACH	
Certificate Number 045468560ASBSR0707	
Course Date 7/20/2007	*Exam Date* 7/20/2007
Expires: 7/20/2008	

Robert Leach

045-46-8560

8/7/89 - 8/10/89

C.S.H.

Envirolmed Services, Inc.
21 Bolivar Park • New Haven, CT 06511

EnviroMed Services, Inc.

Certificate of Completion

Robert Leach

has successfully completed, and passed an examination covering the contents of the initial four (4) day thirty-two (32) hour course for Asbestos Abatement Workers in accordance with the United States Environmental Protection Agency's Model Contractor Accreditation Plan.

10812

Certificate Number

George Giacoff

Training Coordinator
Envirolmed Services, Inc.

8/7/89 - 8/10/89
Course and Exam Date

8/10/90
Instructor

ABATEMENT TECHNIQUES
8-HOUR WORKER UPGRADE to FOREMAN/SUPERVISOR

Name: Robbie Leach

SS#: 045-46-8560

Issued:	Expires:
5/23/90	5/23/91
Test Grade: 70%	Certificate #: C-5003-S

New England Laborers' Training
Route 97 & Murdock Rd. - P
Pomfret Center, CT 06

HEALTH, SAFETY & ASBESTOS
ABATEMENT TECHNIQUES
8-HOUR REVIEW COURSE for FOREMAN/SUPERVISOR

Name: Robert Leach

SS#: 045-46-8560

Issued:	Expires:
4-24-91	4-24-92
Test Grade: 88%	Certificate #: C-0274SR

New England Laborers' Training Trust Fund
Route 97 & Murdock Rd. - P.O. Box 77
Pomfret Center, CT 06259

Gennaro S. Lepore
Administrator

HEALTH, SAFETY & ASBESTOS
ABATEMENT TECHNIQUES
8-HOUR REVIEW COURSE for FOREMAN/SUPERVISOR

Name: Robert Leach

SS#: 045-46-8560

Issued:	Expires
3-18-92	3-18-93
Test Grade 86%	Certificate #: C-5003SR

New England Laborers' Training Trust Fund
Route 97 & Murdock Rd. - P.O. Box 77
Pomfret Center, CT 06259

HEALTH, SAFETY & ASBESTOS
ABATEMENT TECHNIQUES
8-HOUR REVIEW COURSE for FOREMAN/SUPERVISOR

Name: Robert Leach

SS#: 045-46-8560

Issued:	Expires:
2/5/93	2/5/94
Test Grade: 84%	Certificate #: C-5003SR

New England Laborers' Training Tr
Route 97 & Murdock Rd. - P.O. B
Pomfret Center, CT 06259

Gennaro S. Lepore
Administrator

HEALTH, SAFETY & ASBESTOS
ABATEMENT TECHNIQUES
40-HOUR COURSE for FOREMAN/SUPERVISOR

Name: Robert Leach

SS#: 045-46-8560

Issued:	Expires:
1-20-94	1-20-95
Test Grade: 90%	Certificate #: C-5003SR

New England Laborers' Training Trust Fund
Route 97 & Murdock Rd. - P.O. Box 77
Pomfret Center, CT 06259

Gennaro S. Lepore
Administrator

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

Name/Certificate #
Robert Leach
045468560ASBSR0295

Course Date	Exam Date
02-03-95	020395
Expires	020396

NEW ENGLAND LABORERS'
TRAINING TRUST FUND
P.O. Box 77
Pomfret Center, CT 06259
(203) 974-1455

The individual named has complet
the requisite training for asbest
accreditation under TSCA Title II

John LeConche, Administrator

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

Name/Certificate #
Robert Leach
045468560ASBSR0296

Course Date	Exam Date
02-02-96	020296
Expires	020297

NEW ENGLAND LABORERS'
TRAINING TRUST FUND
P.O. Box 77
Pomfret Center, CT 06259
(203) 974-1455

The individual named has completed
the requisite training for asbestos
accreditation under TSCA Title II

John LeConche, Administrator

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

Name/Certificate #
Robert Leach
045468560ASBSR0197

Course Date	Exam Date
01-10-97	011097
Expires	011098

NEW ENGLAND LABOR
TRAINING TRUST FU
P.O. Box 77
Pomfret Center, CT 06
(203) 974-1455

The individual named has com
the requisite training for asb
accreditation under TSCA Ti

John LeConche, Admin

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

Name/Certificate #
Robert Leach
045468560ASBSR0198

Course Date	Exam Date
01-09-98	010998
Expires	010999

NEW ENGLAND LABORERS'
TRAINING TRUST FUND
P.O. Box 77
Pomfret Center, CT 06259
(203) 974-1455

The individual named has completed
the requisite training for asbestos
accreditation under TSCA Title II

John LeConche, Administrator

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

Name/Certificate #
Robert Leach
045468560ASBSR0199

Course Date	Exam Date
01-06-99	010699
Expires	010600

e e ps e e R

Concentra Medical Centers (CT)

370 James St Suite 304 NEW HAVEN, CT 06513
Phone: (203) 503-0482 Fax: (203) 503-0492

PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

Service Date: 06/01/2007

Employee Name:
Leach, Robert M.

Employee SSN: 045-46-8560

Address:
47 Linden St

WEST HAVEN CT 06516

Employer: Petco Insulation Co

You were evaluated in this office of your medical status related to your physical capability to wear a respirator. (Check ✓ one that applies)

- [x] There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- [ ] The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

Based upon the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)

- [x] ARE qualified to wear a respirator.
- [ ] Have the following restrictions concerning respirator usage: _____
- [ ] ARE NOT qualified to wear a respirator.
- [ ] Require further testing by your private physician who must submit a written report of his/her findings to **Concentra Medical Centers (CT)** so that a final decision on your ability to wear a respirator can be made.
- [ ] Must wear Special prescription eye-wear needed to accommodate respirator.
- [ ] Must use an Eye glass conversion kit.
- [ ] May need to shave Facial hair to assure tight seal on certain face masks.
- [ ] Need to stop smoking.

(Check ✓ ALL that apply)

- [x] The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- [ ] The above individual HAS NOT been examined by me for respirator fitness The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- [x] In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Respir rs s eprper see e se he i e e r i oves whih he w rker wi e exp se. F i re f w he se fi i g i s r i w r i g s f r pr per s e i e he respir r p k g i g / r f i r e we r he respir t r i g i es f exp s re re e he respir r's effe ive ess res i si k ess r e n. We r er s e r i e i he pr per re f respir r. Refer pr i er re p k g i g f r spe ifi i f r i reg r i g fi, se / r i i i s.

PLHCP Signature

Employee's Signature

PLHCP Name (printed)

6-1-08
Expiration Date

[1] Physician or other Licensed Healthcare Professional

To be maintained in the employee's file with a copy to the employee

RESPIRATOR FIT TEST

DATE: 8-7-07

EMPLOYEE NAME: Bob Loach

SOCIAL SECURITY # 045-46-8560

½ Face glendale
Full face PAPR
FIT TEST PASS ✓

FAIL _____

REASON: _____

NAME OF PERSON CONDUCTING FIT TEST: Dennis Oconnor

I HAVE READ AND FULLY UNDERSTAND THE RESPIRATORY PROTECTION PROGRAM MANUAL. I HAVE ALSO RECEIVED A FIT TEST USING THE PROCEDURES IN APPENDIX A OF THE MANUAL.

EMPLOYEE SIGNATURE: Robert M Loach

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
DAVID SOTO

VALIDATION NO.
03-539950

CERTIFICATION NO.
003218

CURRENT THROUGH
07/31/08

PROFESSION
ASBESTOS ABATEMENT SUPERVISOR

SIGNATURE

J. Robert Galvin MD, MPH.
COMMISSIONER

ENVIROMED SERVICES, INC.
470 MURDOCK AVE., MERIDEN, CT 06450
(203) 238-4846

Training Course Attendee

David Soto
NAME

SOCIAL SECURITY NUMBER

CARDHOLDER SIGNATURE

40 HR Asbestos Abate Supervisor
COURSE NAME

7/30-8/3/07 8/3/07
COURSE DATE EXAM DATE

8/3/08
EXPIRATION DATE

24426-ASB02
CERTIFICATE NUMBER

SIGNATURE OF TRAINING COORDINATOR

EnviroMed Services, Inc.

470 Murdock Avenue • Meriden, Connecticut 06450 • (203) 238-4846

Certificate of Completion

David Soto

has successfully completed, and passed an examination covering the contents of the initial five (5) day forty (40) hour course for Asbestos Abatement Supervisors. This course is accredited by the State of Connecticut, and is in accordance with the EPA Revised MAP for accreditation under the TSCA Title II as self-certified by Trainer 10/3/94.

July 30-August 3, 2007
Course Dates

August 3, 2008
Expiration Date

24426-ASB02
Certificate Number

August 3, 2007
Exam Date

Training Coordinator
EnviroMed Services, Inc.

Concentra Medical Centers (CT)

370 James St Suite 304 NEW HAVEN, CT 06513
Phone: (203) 503-0462 Fax: (203) 503-0492

PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

Service Date: 07/18/2007

Employee Name: Soto, David

Employee SSN: 111-54-6802

Address:
18 oak rd

WEST HAVEN CT 06516

Employer:

You were evaluated in this office of your medical status related to your physical capability to wear a respirator. (Check ✓ one that applies)

- ☒ There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- ☐ The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

Based upon the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)

- ☒ ARE qualified to wear a respirator.
- ☐ Have the following restrictions concerning respirator usage:
- ☐ ARE NOT qualified to wear a respirator.
- ☐ Require further testing by your private physician who must submit a written report of his/her findings to **Concentra Medical Centers (CT)** so that a final decision on your ability to wear a respirator can be made.
- ☐ Must wear Special prescription eye-wear needed to accommodate respirator.
- ☐ Must use an Eye glass conversion kit.
- ☐ May need to shave Facial hair to assure tight seal on certain face masks.
- ☐ Need to stop smoking.

(Check ✓ ALL that apply)

- ☒ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☐ The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☒ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator' effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator. Refer to product literature and packaging for specific information regarding fit, use and/or limitations.

PLHCP Signature

J P. to MD

PLHCP Name (printed)

[1] Physician or other Licensed Healthcare Professional

Employee's Signature

7/18/08

Expiration Date

To be maintained in the employee's file with a copy to the employee

RESPIRATOR FIT TEST

Date of Test 8-7-07

Employee DAVID SOTO

SS Number 111 54 5802

Respirator Make Survivair

Type HALFFACE

PASS/FAIL

Expiration Date

COMMENTS

Test Administrator Dennis O'Connor

This fit test is for asbestos/lead abatement work. Certification will expire in one (1) year unless other physical factors and/or different respirator is used, Re-Test is required.

EMPLOYEE SIGNATURE

WALLET CARD

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

NAME

ROGER E. MATEO

VALIDATION NO.	CERTIFICATION NO.	CURRENT THROUGH
03-471952	007248	03/31/08

PROFESSION

ASBESTOS ABATEMENT WORKER

Roger Mateo

SIGNATURE

J. Robert Galvin M.D., M.P.H.

COMMISSIONER

Superior Industries LLC

SUPERIOR INDUSTRIES L.L.C.

Committed to a Clean Environment

Certificate of Completion

Awarded to

Roger Mateo

(SSN 078-44-6733) (DOB 3-03-1978)

Has completed a 8 Hour 1 day Approved Course of Instruction in Asbestos Abatement Removal and Disposal (AARD)

Worker Refresher - Spanish

November 17, 2007

Required by OSHA and the EPA Revised MAP for accreditation under the TSCA Title 11 as self-certified by Trainer 8/5/97

Required by Connecticut Regulations 19a-332-21

SUPERIOR INDUSTRIES LLC
342 Carter Lane
Southington, CT. 06489
860-620-1133 (voice)
860-620-1134 (fax)

Examination Date: November 17, 2007
Expiration Date: November 17, 2008
Certificate Number: SWR-078-44-6733-07

Earl R. Clark, Training Director

Superior Industries LLC

SUPERIOR INDUSTRIES L.L.C.

Committed to a Clean Environment

Certificate of Completion

Awarded to

Roger E. Mateo

(SSN 147-29-8306) (DOB 3/3/1978)

Has completed a 32 Hour 4 day Approved Course of Instruction in Asbestos Abatement Removal and Disposal (AARD)

Worker Initial - Spanish

February 16, 2004 through February 19, 2004

Required by OSHA and the EPA Revised MAP for accreditation under the TSCA Title 11 as self-certified by Trainer 8/5/97

Required by Connecticut Regulations 19a-332-21

SUPERIOR INDUSTRIES LLC
342 Carter Lane
Southington, CT. 06489
860-620-1133 (voice)
860-621-1134 (fax)

Examination Date: February 19, 2004
Expiration Date: February 19, 2005
Certificate Number: 147298306-04

Earl R. Clark, Training Director

Concentra Medical Centers (CT)

701 Main Street EAST HARTFORD, CT 06108
Phone: (860) 289-5561 Fax: (860) 291-1895

PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

Service Date: 03/14/2007

Employee Name: Mateo, Roger E.

Employee SSN: 147-29-8306

Address: 806 S. Quaker Lane

WEST HARTFORD CT 06110

Employer: Petco Insulation Co

You were evaluated in this office of your medical status related to your physical capability to wear a respirator. (Check ✓ one that applies)

- ☑ There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- ☐ The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

Based upon the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)

- ☑ ARE qualified to wear a respirator.
- ☐ Have the following restrictions concerning respirator usage: _____
- ☐ ARE NOT qualified to wear a respirator.
- ☐ Require further testing by your private physician who must submit a written report of his/her findings to Concentra Medical Centers (CT) so that a final decision on your ability to wear a respirator can be made.
- ☐ Must wear Special prescription eye-wear needed to accommodate respirator.
- ☐ Must use an Eye glass conversion kit.
- ☐ May need to shave Facial hair to assure tight seal on certain face masks.
- ☐ Need to stop smoking.

(Check ✓ ALL that apply)

- ☑ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☐ The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☑ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator. Refer to product literature and packaging for specific information regarding fit, use and/or limitations.

PLHCP Signature M.D.

PLHCP Name (printed)

X Roger Mateo
Employee's Signature

3/14/08
Expiration Date

[1] Physician or other Licensed Healthcare Professional

To be maintained in the employee's file with a copy to the employee

RESPIRATOR FIT TEST

DATE: 4-17-07

EMPLOYEE NAME: Rodger Mateo

SOCIAL SECURITY # 147-29-8306

FIT TEST PASS ✓

FAIL _____

REASON: 3M PAPR + Glendale Y2 FACE

NAME OF PERSON CONDUCTING FIT TEST: Rick Prouty

I HAVE READ AND FULLY UNDERSTAND THE RESPIRATORY PROTECTION PROGRAM MANUAL. I HAVE ALSO RECEIVED A FIT TEST USING THE PROCEDURES IN APPENDIX A OF THE MANUAL.

EMPLOYEE SIGNATURE: Roger Mateo

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
MILTON J. MONTEALEGRE

VALIDATION NO.	CERTIFICATION NO.	CURRENT THROUGH
03-548166	000046	06/30/08

PROFESSION
ASBESTOS ASATEMENT WORKER

SIGNATURE

J. Robert Galvin M.D., M.P.H.
COMMISSIONER

Superior Industries LLC

SUPERIOR INDUSTRIES L.L.C.

Committed to a Clean Environment

Certificate of Completion

Awarded to

Milton Montealegre

(SSN 045-93-2436) (DOB 6-25-1980)

Has completed a 8 Hour 1 day Approved Course of Instruction in Asbestos Abatement Removal and Disposal (AARD)

Worker Refresher - Spanish

January 6, 2007

Required by OSHA and the EPA Revised MAP for accreditation under the TSCA Title 11 as self-certified by Trainer 8/5/97

Required by Connecticut Regulations 19a-332-21

SUPERIOR INDUSTRIES LLC
342 Carter Lane
Southington, CT. 06489
860-620-1133 (voice)
860-621-1134 (fax)

Examination Date: January 6, 2007
Expiration Date: January 6, 2008
Certificate Number: SWR-045-93-2436-06

Earl R. Clark, Training Director

Superior Industries LLC

SUPERIOR INDUSTRIES L.L.C.

Committed to a Clean Environment

Certificate of Completion

Awarded to

Milton J. Montealegre

(SSN 045-93-2436) (DOB 6-25-80)

Has completed a 32 Hour 4 day Approved Course of Instruction in Asbestos Abatement Removal and Disposal (AARD)

Worker Initial

March 6 to March 9, 2000

Required by OSHA and the EPA Revised MAP for accreditation under the TSCA Title 11 as self-certified by Trainer 8/5/97

Required by Connecticut Regulations 19a-332-21

SUPERIOR INDUSTRIES LLC
290 Beach Road
Wolcott, CT. 06716
203-879-5531 (voice)
860-621-1134 (fax)

Examination Date: March 9, 2000
Expiration Date: March 9, 2001
Certificate Number: 045-93-2436

Earl R. Clark, Training Director

EMPLOYER AUTHORIZATION AND INFORMATION FOR RESPIRATORY EVALUATION

EMPLOYER TO COMPLETE THE FOLLOWING :

Employee Name: Montealegre, Milton J.

Address: 79 Sumner St. Hartford, CT 06105

Employer: Private Pay

Employee SSN: 045-93-2436

Check Type of Respirator(s) To Be Used (Check ✓ALL that apply)

- ☐ Air-purifying (non-powered)
- ☐ Air-purifying (powered)
- ☐ Atmosphere supplying Respirator
- ☐ Combination air-line and SCBA
- ☐ Continous-Flow Respirator
- ☐ Supplied-Air Respirator
- ☐ Open Circuit SCBA
- ☐ Closed Circuit SCBA
- ☐ Dust Mask
- ☐ 1/2 Face with Canisters
- ☐ Full Face with Canisters

Make: _____ Model: _____ Cartridge: _____

Special Work Conditions (Check ✓ ALL That Apply When Wearing Respirator)

- ☐ High Places
- ☐ Enclosed Places
- ☐ Protective Clothing
- ☐ Temperature Extremes
- ☐ Mostly Cold
- ☐ Mostly Hot
- ☐ Other: _____

Questionare will be: ☐ HAND CARRIED ☐ MAILED ☐ OTHER

Extent of Useage (Check ✓ALL that apply)

- ☐ On a daily basis _____ Total Hours
- ☐ Occasionally - but not more than twice a week ____ Total Hours
- ☐ Rarely - or for Emergency situations only ____ Total Hours

Expected Physical Effort Required (Check ✓ALL that apply)

- ☐ Light
- ☐ Moderate
- ☐ Heavy

Exposure to Hazardous Materials (Check ✓ALL that apply)

- ☐ Arsenic
- ☐ Benzene
- ☐ Coke Oven
- ☐ Cotton Seed / Dust
- ☐ Cadmium
- ☐ Formaldehyde
- ☐ Methylene Chloride
- ☐ Lead
- ☐ Textiles
- ☐ Chromium

Other(s): _____

EVALUATION AUTHORIZATION BY: _____
Signature of Employer Representative

DO NOT WRITE BELOW THIS LINE DO NOT WRITE BELOW THIS LINE DO NOT WRITE BELOW THIS LINE

PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYER)

PHYSICIAN WILL COMPLETE THE FOLLOWING

This report may contain confidential medical information and is intended for the designated employer contact only. The Americans with Disabilities Act (ADA) imposes very strict limitations on the use of information obtained during physical examination of qualified individuals with disabilities. All information must be collected and maintained on seperate forms, in seperate files, and must be treated as a confidential medical record, with the following exceptions:

- Supervisors and managers may be informed about necessary restrictions on the work or duties of an employee and necessary accommodations.
- First aid and safety personnel may be informed, when appropriate, if the disability might require emergency treatment.

Based upon my findings, I have determined that this individual (Check ✓ALL that apply)

- ☐ Employee must schedule a medical examination with _____ prior to respirator approval and usage.
- ☑ Class I - No Restrictions on Respirator Use
- ☐ Class II - Some Specific Use Restrictions ☐ To be used for Emergency Response or Escape Only ☐ Other: _____
- ☐ Class III - Respirator Use is NOT PERMITTED
- ☐ Further Testing / Evaluation is Required.[2]
- ☐ Fit Test Required ☐ Fit Test Performed Satisfactorily
- ☐ Fit Test Performed Unsatisfactorily ☐ Fit Test NOT Performed at: _____
- ☐ Special prescription eyewear needed to accommodate respirator ☐ Special prescription eyewear needed to accommodate respirator
- ☐ Facial hair needs to be shaved to assure tight seal on certain face masks.

[1] Physician or other Licensed Healthcare Professional

[2] Employee must seek further medical evaluation by a private physician who must submit a report to _____ of his/her findings to

Check ✓ ALL that apply)

- ☑ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☐ The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees would be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☑ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Physician's Signature

Physician's License Number (Optional in Most States): 16693-CT

Physician's Name (Printed): David Feinstein, MD.

Date of Exam: 6/25/07

Expires On: 6/25/08

RESPIRATOR FIT TEST

Date of Test 7-16-07

Employee Milton Montealegre

SS Number 045-93-2436

Respirator Make Survive air

Type Half face

PASS/FAIL Pass

Expiration Date 7-16-08

COMMENTS

Test Administrator Ricky Santiago

This fit test is for asbestos/lead abatement work. Certification will expire in one (1) year unless other physical factors and/or different respirator is used, Re-Test is required.

Milton Montealegre
EMPLOYEE SIGNATURE

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

December 19, 2007

Carlos Funez
P.O.Box 260974
Hartford, CT 06126

DUPLICATE LICENSE

This is to certify that the records of the Connecticut Department of Public Health indicate th the above mentioned individual has been issued Connecticut **Asbestos Abatement Supervisor** License, number 003317. This license is current through 10/31/2008.

Sincerely,

J Robert Galvin MD, MPH, MBA

J. Robert Galvin, MD, MPH, MBA
COMMISSIONER

JRG:NN

(seal)

Not valid unless affixed with seal of
Department of Public Health

Phone: (860) 509-7596, 509-7603
Telephone Device for the Deaf (860) 509-7191
410 Capitol Avenue - MS # 12MQA
P.O. Box 340308 Hartford, CT 06134
An Equal Opportunity Employer
Website for licensure verification http://www.ct-clic.com

ASBESTOS ABATEMENT
SUPERVISOR COURSE

CARLOS FUNEZ	
Certificate Number 402444510ASBS0907	
Course Date 9/10/2007	*Exam Date* 9/14/2007
Expires: 9/14/2008	

NEW ENGLAND LABORERS'
TRAINING TRUST FUND
P.O. Box 77
Pomfret Center, CT 06259
(860) 974-1455

CARLOS FUNEZ

The individual named has completed the requisite training for asbestos accreditation under TSCA Title II

Joseph M. Sabitoni *Training Director*

Superior Industries LLC

SUPERIOR INDUSTRIES L.L.C.

Committed to a Clean Environment

Certificate of Completion
Awarded to

Carlos Funez

(SSN 402-44-4510) (DOB 10-30-72)

Has completed a 32 Hour 4 day Approved Course of Instruction in Asbestos Abatement Removal and Disposal (AARD)

Worker Initial

April 3, 2000 to April 6, 2000

Required by OSHA and the EPA Revised MAP for accreditation under the TSCA Title 11 as self-certified by Trainer 8/5/97

Required by Connecticut Regulations 19a-332-21

SUPERIOR INDUSTRIES LLC
290 Beach Road
Wolcott, CT. 06716
203-879-5531 (voice)
860-621-1134 (fax)

Examination Date: April 6, 2000
Expiration Date: April 6, 2001
Certificate Number: 402-44-4510

Earl R. Clark, Training Director

INDUSTRIES L.L.C.

Committed to a Clean Environment

Certificate of Completion
Awarded to

Carlos Funez

(SSN 402-44-4510) (DOB 10-30-72)

Has completed an 8 Hour Approved Course of Instruction in Asbestos Abatement Removal and Disposal (AARD)

Worker Refresher Training

March 4, 2001

Required by OSHA and the EPA Revised MAP for accreditation under the TSCA Title 11 as self-certified by Trainer 8/5/97

Required by Connecticut Regulations 19a-332-21

SUPERIOR INDUSTRIES LLC
290 Beach Road
Wolcott, CT. 06716
(203) 879-5531 (voice)
(860) 620-1134 (fax)

Examination Date: March 4, 2001
Expiration Date: March 4, 2002
Certificate Number: 402-44-4510-01

Earl R. Clark, Training Director

Superior Industries LLC

SUPERIOR INDUSTRIES L.L.C.

Committed to a Clean Environment

Certificate of Completion
Awarded to

Carlos Funez

(SSN 402-44-4510) (DOB 10-30-72)

Has completed an 8 Hour Approved Course of Instruction in Asbestos Abatement Removal and Disposal (AARD)

Worker Refresher Training - Spanish

February 18, 2002

Required by OSHA and the EPA Revised MAP for accreditation under the TSCA Title 11 as self-certified by Trainer 8/5/97

Required by Connecticut Regulations 19a-332-21

SUPERIOR INDUSTRIES LLC
342 Carter Lane
Southington, CT 06489
860-620-1133 (voice)
860-620-1134 (fax)

Examination Date: February 18, 2002
Expiration Date: February 18, 2003
Certificate Number: 402-44-4510-02

Earl R. Clark, Training Director

Superior Industries LLC

SUPERIOR INDUSTRIES L.L.C.

Committed to a Clean Environment

Certificate of Completion
Awarded to

Carlos Funez

(SSN 402-44-4510) (DOB 10-30-72)

Has completed an 8 Hour 1 Day Approved Course of Instruction in Asbestos Abatement Removal and Disposal (AARD)

Worker Refresher Training - Spanish

February 28, 2003

Required by OSHA and the EPA Revised MAP for accreditation under the TSCA Title 11 as self-certified by Trainer 8/5/97

Required by Connecticut Regulations 19a-332-21

SUPERIOR INDUSTRIES LLC
342 Carter Lane
Southington, CT 06489
860-620-1133 (voice)
860-620-1134 (fax)

Examination Date: February 28, 2003
Expiration Date: February 28, 2004
Certificate Number: 402-44-4510-03

Earl R. Clark, Training Director

ASBESTOS ABATEMENT
WORKER REFRESHER

CARLOS FUNEZ	
Certificate Number 402444510ASBR0204	
Course Date 2/25/04	Exam Date 2/25/04
Expires: 2/25/05	

ASBESTOS ABATEMENT
WORKER REFRESHER

CARLOS FUNEZ	
Certificate Number 402444510ASBR0205	
Course Date 2/16/2005	Exam Date 2/16/2005
Expires: 2/16/2006	

ASBESTOS ABATEMENT
WORKER REFRESHER

CARLOS FUNEZ	
Certificate Number 402444510ASBR0206	
Course Date 2/15/2006	Exam Date 2/15/2006
Expires: 2/15/2007	

701 Main Street
East Hartford, CT 06108

ᴬᴰLOYER AUTHORIZATION AND INFORMATION FOR RESPIRATORY EVALUATION

K ,O COMPLETE THE FOLLOWING :

.e: Carlos Funez

Address: 102 Smith St
Hartford CT 06114

Employee SSN: - - 402 44 4510

Respirator(s) To Be Used (Check ✓ALL that apply)

ng (non-powered) ☐ Air-purifying (powered)
ᵛe supplying Respirator
n air-line and SCBA
-Flow Respirator
Air Respirator
it SCBA ☐ Closed Circuit SCBA
☐ 1/2 Face with Canisters ☐ Full Face with Canisters
_____ Model: _____ Cartridge: _____

Conditions That Apply When Wearing Respirator)

es ☐ Enclosed Places ☐ Protective Clothing
ure Extremes ☐ Mostly Cold ☐ Mostly Hot

l be: ☐ HAND CARRIED ☐ MAILED ☐ OTHER

Extent of Useage (Check ✓ALL that apply)

☐ On a daily basis _____ Total Hours
☐ Occasionally - but not more than twice a week ____ Total Hours
☐ Rarely - or for Emergency situations only ____ Total Hours

Expected Physical Effort Required (Check ✓ALL that apply)

☐ Light ☐ Moderate ☐ Heavy

Exposure to Hazardous Materials (Check ✓ALL that apply)

☐ Arsenic ☐ Benzene
☐ Coke Oven ☐ Cotton Seed / Dust
☐ Cadmium ☐ Formaldehyde
☐ Methylene Chloride ☐ Lead
☐ Textiles ☐ Chromium

Other(s): _____

EVALUATION AUTHORIZATION BY: _____
Signature of Employer Representative

ITE BELOW THIS LINE **DO NOT WRITE BELOW THIS LINE** **DO NOT WRITE BELOW THIS LINE**

PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYER)

WILL COMPLETE THE FOLLOWING

ain confidential medical information and is intended for the designated employer contact only. The Americans with Disabilities Act
trict limitations on the use of information obtained during physical examination of qualified individuals with disabilities. All information
and maintained on seperate forms, in seperate files, and must be treated as a confidential medical record, with the following exceptions:
and managers may be informed about necessary restrictions on the work or duties of an employee and necessary accommodations.
d safety personnel may be informed, when appropriate, if the disability might require emergency treatment.

findings, I have determined that this individual (Check ✓ALL that apply)

st schedule a medical examination with _____ prior to respirator approval and usage.

o Restrictions on Respirator Use
me Specific Use Restrictions ☐ To be used for Emergency Response or Escape Only ☐ Other: _____
espirator Use Is NOT PERMITTED
ling / Evaluation Is Required. [2]
uired ☐ Fit Test Performed Satisfactorily
rmed Unsatisfactorily ☐ Fit Test NOT Performed at: _____
iption eyewear needed to accommodate respirator ☐ Special prescription eyewear needed to accommodate respirator
needs to be shaved to assure tight seal on certain face masks.
other Licensed Healthcare Professional
st seek further medical evaluation by a private physician who must submit a report to _____
ings to

LL that apply)

ividual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator
ployees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician.
ation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation
e in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees would be instructed
difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire
29 CFR 1910.134.
nce with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from
hat may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer
o the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

ignature

0202 CT
License Number (Optional in Most States)

Physician's Name (Printed)

4/3/07
Date of Exam

4/3/08
Expires On

To be maintained in the employee's file with a copy to the employee

Co... Contra Medical Centers
70 Main Street
East Hartford, CT 06108

PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

: 4/3/07

Employee SSN: 402-44-4570

me: S Funez

...ith St
...d Ct 06114

...aluated in this office of your medical status related to your physical capability ...pirator. (Check ✓ one that applies)

...re no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
...rmal findings listed below were not related to wearing a respirator but should be reported to your ...hysician for further evaluation.

... the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)

...alified to wear a respirator.
... following restrictions concerning respirator usage: _____
...alified to wear a respirator.
...urther testing by your private physician who must submit a written report of his/her findings to _____ so that a final decision on your ability to wear a respirator can be made.
...r Special prescription eye-wear needed to accommodate respirator.
... an Eye glass conversion kit.
...ed to shave Facial hair to assure tight seal on certain face masks.
...stop smoking.

... ALL that apply)

...ndividual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator ...ployees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician.
...ation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
... individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation ...re in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees should be instructed ... difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire ... 29 CFR 1910.134.
...ance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from ...hat may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer ... to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

...rs must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction ...ngs for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness ... sickness or death. Wearer must be trained in the proper care of any respirator. Refer to product literature and packaging for specific information regarding fit, ...imitations.

...gnature

... Fannon PAC

...e (printed)

...other Licensed Healthcare Professional

Employee's Signature

4/3/08

Expiration Date

To be maintained in the employee's file with a copy to the employee

RESPIRATOR FIT TEST

DATE: 12/31/07

EMPLOYEE NAME: CARLOS FUNEZ

SOCIAL SECURITY # _____

FIT TEST PASS ✓

FAIL _____

REASON: _____

NAME OF PERSON CONDUCTING FIT TEST: DAVID SOTO

I HAVE READ AND FULLY UNDERSTAND THE RESPIRATORY PROTECTION PROGRAM MANUAL. I HAVE ALSO RECEIVED A FIT TEST USING THE PROCEDURES IN APPENDIX A OF THE MANUAL.

EMPLOYEE SIGNATURE: Carlos Funez

APPENDIX C
DAILY PROJECT SIGN-IN SHEETS

DAILY SIGN-IN SHEET

CLIENT_____ JOB #_____

SITE Mystic Education Center, Mystic TRC REPRESENTATIVE Dennis Ryder

NOTE: ALL PERSONS ENTERING & EXITING THE WORK AREA MUST SIGN IN & OUT

DATE	NAME	COMPANY	DESTINATION	PROTECTIVE CLOTHING	PURPOSE OF ENTRY	TIME IN	TIME OUT
12/20	Bobby Leach	Petco	Work Area	None required	Set up	0800	
12/20	David Soto	Petco	Work Area	↓	Set up	0800	

SIGN-IN SHEET FOR CT DPW Mystic EDU Whipple BIOC Basement

(Job Name and Project Number)

106957-76W-0003

NOTICE: All persons entering and leaving the Clean Room, Showers, Equipment Room and Work Area(s) must sign in and out. Please complete all information slots.

TRC REPRESENTATIVE: Bryce Aston

DATE: 12/24/07 12/26/07

NAME	COMPANY	DESTINATION (Clean Room, Showers, Equip. Room, Work Area)	PROTECTIVE CLOTHING (Respirator, Tyvek Suit, Gloves)	PURPOSE of Entry (Inspection, Work)	TIME IN
Bobby Leach	Petco	Prep Basement Whipple BIOC	Class II prep work	prep	
Dave Soto	↓	↓	↓	↓	
Roger Mateo	↓	↓	↓	↓	

12/24/07
12/26/07

11/86

SIGN-IN SHEET FOR CT DPW - Mystic EDU. Center - Whipple Basement
(Job Name and Project Number)
106957-7600-0003

NOTICE: All persons entering and leaving the Clean Room, Showers, Equipment Room and Work Area(s) must sign in and out. Please complete all information slots.

TRC REPRESENTATIVE: ERIC Hastedt DATE: 12/27/07

NAME	COMPANY	DESTINATION (Clean Room, Showers, Equip. Room, Work Area)	PROTECTIVE CLOTHING (Respirator, Tyvek Suit, Gloves)	PURPOSE of Entry (Inspection, Work)	TIME IN - OUT
Dave Soto	Petco	Prepping South End Whipple Basement	OSHA Req'd	Prep	0600-1400
Roger Mateo	↓	↓	↓	↓	↓

11/86

SIGN IN SHEET FOR CT DPW - Mystic EDU center - Whipple Basement
(Job Name and Project Number)
106957 - 7600 - 0003

NOTICE: All persons entering and leaving the Clean Room, Showers, Equipment Room and Work Area(s) must sign in and out. Please complete all information slots.

TRC REPRESENTATIVE: Eric Hastell **DATE:** 12/28/07

NAME	COMPANY	DESTINATION (Clean Room, Showers, Equip. Room, Work Area)	PROTECTIVE CLOTHING (Respirator, Tyvek Suit, Gloves)	PURPOSE of Entry (Inspection, Work)	TIME IN - OUT
Dave Soto	Petco	Prepping south End Whipple Basement	OSHA Req'd	Prep	0600 - 1400
Roger Mateo	↓	↓	↓	↓	

11/86

SIGN-IN SHEET FOR CT DPW Mystic Continuing ED Whipple BLDG

(Job Name and Project Number)

106957-7600-003

NOTICE: All persons entering and leaving the Clean Room, Showers, Equipment Room and Work Area(s) must sign in and out. Please complete all information slots.

TRC REPRESENTATIVE: B. Aston

DATE: 12/3/07 1/2/08

	NAME	COMPANY	DESTINATION (Clean Room, Showers, Equip. Room, Work Area)	PROTECTIVE CLOTHING (Respirator, Tyvek Suit, Gloves)	PURPOSE of Entry (Inspection, Work)	TIME IN	TIME -
12/3/07	David Soto	Petro	Containment #1	Class II Req'd OSHA	Removal		
	Milton Montealegre	↓	↓	↓	↓		
	Roger Mateo						
	Carlos Funez						
1/08	David Soto	Petro	Cont #1	Class II req'd OSHA	Removal		
	Milton Montealegre	↓	↓	↓			
	Roger Mateo						
	Carlos Funez						

11/86

DAILY SIGN-IN SHEET

CLIENT CT DPW

JOB # 106957.7600.0003

SITE Mystic Ed Center

TRC REPRESENTATIVE D. Ryder

NOTE: ALL PERSONS ENTERING & EXITING THE WORK AREA MUST SIGN IN & OUT

DATE	NAME	COMPANY	DESTINATION	PROTECTIVE CLOTHING	PURPOSE OF ENTRY	TIME IN	TIME OUT
1/3	David Soto	Petco	Whipple	OSHA	removal	0700	1530
	Milton Montealegre			class II			
	Roger Mateo	"	"		"	"	"
	Carlos Funez						
1/4	David Soto	Petco	Whipple	OSHA	removal	0700	1530
	Milton Montealegre			class II	+ clean		
	Roger Mateo	"	"		"	"	"
	Carlos Funez						
1/7	David Soto	Petco	Whipple	OSHA	clean	0700	1530
	McMillan	"		class II	"	"	"

TRC

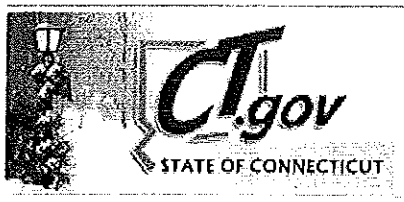
APPENDIX D
CONTRACTOR OSHA PERSONNEL AIR SAMPLING RESULTS

CONTACT PETCO DIRECTLY

FOR OSHA PERSONNEL AIR SAMPLING RESULTS

RESULTS WERE NOT SUBMITTED TO TRC

APPENDIX E
TRC CERTIFICATIONS/LICENSES



CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

Health Care or Environmental Health Professional's License Status

This site is part of **CT-clic.com**, the **Connecticut Licensing Info Center,** that links to all YOUR State licensing and registration needs.

License Type:	Asbestos Consultant - Project Monitor
License Number:	000606
Name:	SMITH, JARED D
Expiration Date:	10/31/2008
Granted Date:	1/8/2008
License Name:	Jared D. Smith
License Status:	Current
Disciplinary Action:	None

State of Connecticut Disclaimer and Privacy Policy Copyright © 2002 - 2007 State of Connecticut

CERTIFICATE OF ACHIEVEMENT

This certifies that

Jared Smith

has successfully completed the

40 Hour Asbestos Project Monitor Training Course

conducted by
ATC Associates Inc.
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Gregory J. Morsch
Principal Instructor

Gregory J. Morsch
Regional Manager

August 13-17, 2007
Date of Course

PM-165
Certificate Number

August 17, 2008
Expiration Date

August 17, 2007
Examination Date

Asbestos Analysts Registry

AIHA
Your Essential Connection

American Industrial Hygiene Association
2700 Prosperity Avenue, Suite 250
Fairfax, VA 22031
Phone:(703) 846-0798 Fax: (703) 207-8558
cdezio@aiha.org

September 25, 2007

TRC Environmental Corporation
Jared Smith
21 Griffin Road North
Windsor, CT 06095

Organization ID: **100122**
Analyst ID: **8997**

Dear Mr. Smith:

Welcome! You have been successfully enrolled by your affiliated organization as a fiber-counting analyst in the Asbestos Analyst Registry (AAR) program. Enrollment in the AAR also enrolls you in the Asbestos Analytical Testing (AAT) proficiency testing program. Your organization should have received **AAT Round # 83** samples the first week in **September, 2007**. You should begin your AAT participation with this round. If you will be unable to enter results by the due date, October 10, 2007 11:59 PM ET, please contact me so that I can ensure you are not included in this round.

This letter introduces you to some requirements and procedures associated with your participation. The AAT Round # 83 Performance Results Report will indicate your performance in the analysis of AAT samples. **Note: It takes approximately 6-8 months to become an Analytical Accreditation Board (AAB) approved analyst and subsequently be listed in the Asbestos Analyst Registry, providing your affiliated organization's application has been reviewed and approved by AIHA. Analysts who leave an approved organization must transfer to another approved organization to keep their current board-approved status and must provide updated information as required by AIHA (AAR policy 4.3 – Maintenance of Listing). If you have transferred to an unapproved organization, you immediately lose the AAB approved status.**

Each participating analyst has a unique Analyst Identification (ID) number and a corresponding Organization ID number. These numbers appear on the upper right corner of this letter. **It is imperative that you keep these numbers on file and refer to both numbers when communicating with AIHA.** You must enter your Analyst ID and Organization ID numbers when entering results on the AAT Data Entry Website (http://www.aiha.org/pat).

On a quarterly basis, one (1) set of four (4) AAT samples, for every 5 registered analysts, will be mailed to your organization's AAR contact person. The sample box will also include the Deadlines and Instructions for Asbestos Analysts Testing (AAT) Participants, the AAT Round Results Worksheet and a retest order form. It is your responsibility to obtain a copy of the worksheet and prepare a wedge from each sample in the set. AIHA also recommends that each analyst: keep a photocopy of the completed worksheet; print a copy of the results confirmation page from the AAT Data Entry website; and obtain the AAT Performance Result Report after each round. Analysts who have more than two (2) outliers reported in two (2) consecutive rounds may request additional samples for retesting. A fee will be charged for participation in the retest round, as stated on the Fee Schedule located at http://www.aiha.org/1documents/lab/2007lqapfees.pdf. Analysts participating in the retest round will be evaluated on the retest sample set and retest results will override the regular round attempted. (AAR policy 3.4 – Retesting)

If you have any questions, please contact me at AIHA at 703-846-0798.

Sincerely,

Carter Dezio
AAR Program Specialist

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT - PROJECT MONITOR

DENNIS P. RYDER

LICENSE NO.
000443
CURRENT THROUGH
09/30/08
VALIDATION NO.
03-550388

SIGNATURE

J Robert Galvin MD MPH
COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

Dennis P. Ryder

has successfully completed the

8 Hour Asbestos Project Monitor Refresher Training

conducted by
ATC Associates Inc.
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Edward Kobelyjcz
Principal Instructor

Gregory J. Morsch
Regional Manager

February 21, 2007
Date of Course

PMR-0848
Certificate Number

February 21, 2008
Expiration Date

February 21, 2007
Examination Date

AIHA

Your Essential Connection

RETAIN FOR YOUR RECORDS

June 13, 2003

Counter ID: 8468
Organization ID: 100122

Dennis P. Ryder
TRC Environmental Corporation
5 Waterside Crossing
Windsor, CT 06095-1561

Dear :Analyst

Congratulations! The American Industrial Hygiene Association (AIHA) Analytical Accreditation Board (AAB) has approved your listing in the Asbestos Analysts Registry (AAR). This Board Approval takes effect today and is current as long as you maintain two or less outliers in the two most current consecutive Asbestos Analytical Testing (AAT) rounds. This is the only time AIHA requires that you be on the AAB Ballot.

If you should receive more than two outliers in two consecutive rounds, your AAT Performance Results report will show that you are "not acceptable." To regain your Board Approval, your options are:

1) Purchase the current round retest to override the results, or:
2) Analyze the next two AAT rounds and again meet Board Approval qualifications.

If you foresee non-participation in a future AAT round, AIHA requires a letter requesting a suspension from that round to retain the Board Approval status before the date that results are due for that particular round.

For your information:
1) You automatically lose Board Approval status when you cease analyzing AAT samples with your organization.
2) If you transfer to an unapproved organization, you immediately lose Board Approval status.

Congratulations again and thank you for your continued interest in the Asbestos Analysts Registry program. If you have any questions concerning your status, please call me.

Sincerely,

Gary E. Coates
Laboratory Accreditation Specialist

OVER 25 OF ACCREDITING LABS AIHA

LABORATORY QUALITY ASSURANCE PROGRAMS

SOUND DATA SMART DECISIONS

AIHA
Your Essential Connection:
Advancing Occupational and Environmental Health and Safety Globally
2700 Prosperity Ave., Suite 250, Fairfax, VA 22031 U.S.A.
(703) 849-8888; Fax (703) 207-8558; www.aiha.org

Dear Licensed/Certified Professional,

Attached you will find your validated license/certification for the coming year. Should you have any questions about your license/certificate renewal, please do not hesitate to write or call:

Department of Public Health **(860) 509-7603**
P.O. Box 340308
M.S.#12MQA **http://www.dph.state.ct.us**
Hartford, CT 06134-0308

Sincerely,

J Robert Galvin, MD, MPH, MBA

J. ROBERT GALVIN, MD, MPH, COMMISSIONER
DEPARTMENT OF PUBLIC HEALTH

0002658 FP **PRSRT HS 0 1564 06238
BRYCE A. ASTON
24 HERBERT DRIVE
COVENTRY CT 06238

TRUCTIONS:

ch and sign each of the cards on this form.
lay the large card in a prominent place in your office or place of business.
wallet card is for you to carry on your person. If you do not wish to carry llet card, place it in a secure place.

4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
BRYCE A. ASTON

VALIDATION NO.	LICENSE NO.	CURRENT THROUGH
03-560646	000293	10/31/08

PROFESSION
ASBESTOS CONSULTANT-PROJECT MONITOR

SIGNATURE COMMISSIONER

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT-PROJECT MONITOR

BRYCE A. ASTON

LICENSE NO.
000293
CURRENT THROUGH
10/31/08
VALIDATION NO.
03-560646

SIGNATURE COMMISSIONER

Certificate of Training

Awarded to

BRYCE ASTON

For successful completion of an 8 (eight) hour

Asbestos Project Monitor Refresher Course

01/16/2007

This training was approved and given in accordance with Regulations for Connecticut State Agencies RCSA 20-440 - 1-9 and RCSA 20-441and meets the requirements for the EPA Revised MAP under TSCA Title II of 4/4/94

Presented by

Mystic Air Quality Consultants, Inc.

1204 North Road, Groton, CT 06340 (800) 247-7746

Certificate Number: APM/R15101 **Exam Grade:** 90 **Expiration Date:** 01/16/2008

Exam Date: 01/16/2007

Christopher J. Eident, CIH, CSP, RS

George Williamson, Training Director

AIHA

Your Essential Connection

RETAIN FOR YOUR RECORDS

December 4, 2001

Counter ID: 7986
Organization ID: 100122

Bryce Aston
TRC Environmental Corporation
5 Waterside Crossing
Windsor, CT 06095-1561

Dear :Analyst

Congratulations! The American Industrial Hygiene Association (AIHA) Analytical Accreditation Board (AAB) has approved your listing in the Asbestos Analysts Registry (AAR). This Board Approval takes effect today and is current as long as you maintain two or less outliers in the two most current consecutive Asbestos Analytical Testing (AAT) rounds. This is the only time AIHA requires that you be on the AAB Ballot.

If you should receive more than two outliers in two consecutive rounds, your AAT Performance Results report will show that you are "not acceptable." To regain your Board Approval, your options are:

1) Purchase the current round retest to override the results, or:
2) Analyze the next two AAT rounds and again meet Board Approval qualifications.

If you foresee non-participation in a future AAT round, AIHA requires a letter requesting a suspension from that round to retain the Board Approval status <u>before</u> the date that results are due for that particular round.

For your information:
1) You automatically lose Board Approval status when you cease analyzing AAT samples with your organization.
2) If you transfer to an unapproved organization, you immediately lose Board Approval status.

Congratulations again and thank you for your continued interest in the Asbestos Analysts Registry program. If you have any questions concerning your status, please call me.

Sincerely,

Gary E. Coates
Laboratory Accreditation Specialist

OVER 25 OF ACCREDITING LABS AIHA

LABORATORY QUALITY ASSURANCE PROGRAMS

SOUND DATA SMART DECISIONS

AIHA
Your Essential Connection:
Advancing Occupational and Environmental Health and Safety Globally
2700 Prosperity Ave., Suite 250, Fairfax, VA 22031 U.S.A.
(703) 849-8888; Fax (703) 207-8558; www.aiha.org

0001353 FP **PRSRT T5 0 1264 06063
MICHELLE K. MURPHY
16 PARTRIDGE LN
BARKHAMSTED CT 06063

Dear Licensed/Certified Professional,

Attached you will find your validated licensure/certification [illegible]. Should you have any questions about your licensure/certificate renewal, please do not hesitate to write or call.

Department of Public Health [illegible]
P.O. Box [illegible]
M.S. [illegible] http://www.dph.state.ct.us
Hartford, CT [illegible]

Sincerely,

J. Robert Galvin M.D., M.P.H.

J. ROBERT GALVIN, MD, MPH, COMMISSIONER
DEPARTMENT OF PUBLIC HEALTH

INSTRUCTIONS:

1. Detach and sign each of the cards on this form.
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.
4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A
ASBESTOS CONSULTANT-PROJECT MONITOR

MICHELLE K. MURPHY

LICENSE NO. 000581
CURRENT THROUGH 07/31/08
VALIDATION NO. 03-521594

SIGNATURE

J. Robert Galvin M.D., M.P.H.
COMMISSIONER

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
NAME
MICHELLE K. MURPHY

VALIDATION NO.	LICENSE NO.	CURRENT THROUGH
03-521594	000581	07/31/08

PROFESSION
ASBESTOS CONSULTANT-PROJECT MONITOR

SIGNATURE

J. Robert Galvin M.D., M.P.H.
COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
NAME
MICHELLE K. MURPHY

VALIDATION NO.	LICENSE NO.	CURRENT THROUGH
03-521594	000581	07/31/08

PROFESSION
ASBESTOS CONSULTANT-PROJECT MONITOR

SIGNATURE

J. Robert Galvin M.D., M.P.H.
COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

Michelle Murphy

has successfully completed the

8 Hour Asbestos Project Monitor Refresher Training

conducted by
ATC Associates Inc.
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Edward Kolodziej
Principal Instructor

Gregory J. Morsch
Regional Manager

May 23, 2007
Date of Course

PMR-883
Certificate Number

May 23, 2008
Expiration Date

May 23, 2007
Examination Date

AIHA
Your Essential Connection

Asbestos Analysts Registry

Retain For Your Records

April 25, 2007

TRC Environmental Corporation
Michelle Murphy
21 Griffin Road North
Windsor, CT 06095

Organization ID: **100122**
Analyst ID: **8926**

Dear Ms. Murphy,

Congratulations! The American Industrial Hygiene Association (AIHA) Analytical Accreditation Board (AAB) has approved your listing in the Asbestos Analyst Registry (AAR). This Board Approval takes effect **April 24, 2007**. You are now listed on the AIHA website as an Asbestos Analysts Registry (AAR) Board Approved Analyst

http://www.aiha.org/1documents/lab/AARAnalysts.pdf.

Your Board Approval status will remain current as long as you maintain two or less outliers in the two most current consecutive Asbestos Analytical Testing (AAT) rounds. You will automatically lose your Board Approval status if you cease analyzing AAT samples with an approved organization, or you transfer to an unapproved organization.

If you should receive more than two outliers in two consecutive rounds, your AAT Performance Results report will show that you are "not acceptable." To regain your Board Approval, your options are:

1) Purchase the current round retest to successfully override the results; or
2) Analyze the next regularly scheduled AAT round or next two consecutive AAT rounds (whichever is appropriate) with no more than 2 outliers cumulatively to regain Board Approval status.

If you foresee non-participation in a future AAT round, in order to retain Board Approval status, AIHA requires a letter requesting an excused absence from that round before the date that the results are due for that particular round. Please note that excused absences will not be granted for two consecutive AAT rounds.

Congratulations again and thank you for your continued participation in the Asbestos Analyst Registry program. If you have any questions please do not hesitate to contact Mrs. Carter Dezio, AAR Program Specialist at 703-846-0798 or cdezio@aiha.org.

Sincerely,

Peter Dragasakis
Quality Systems Manager, LQAP

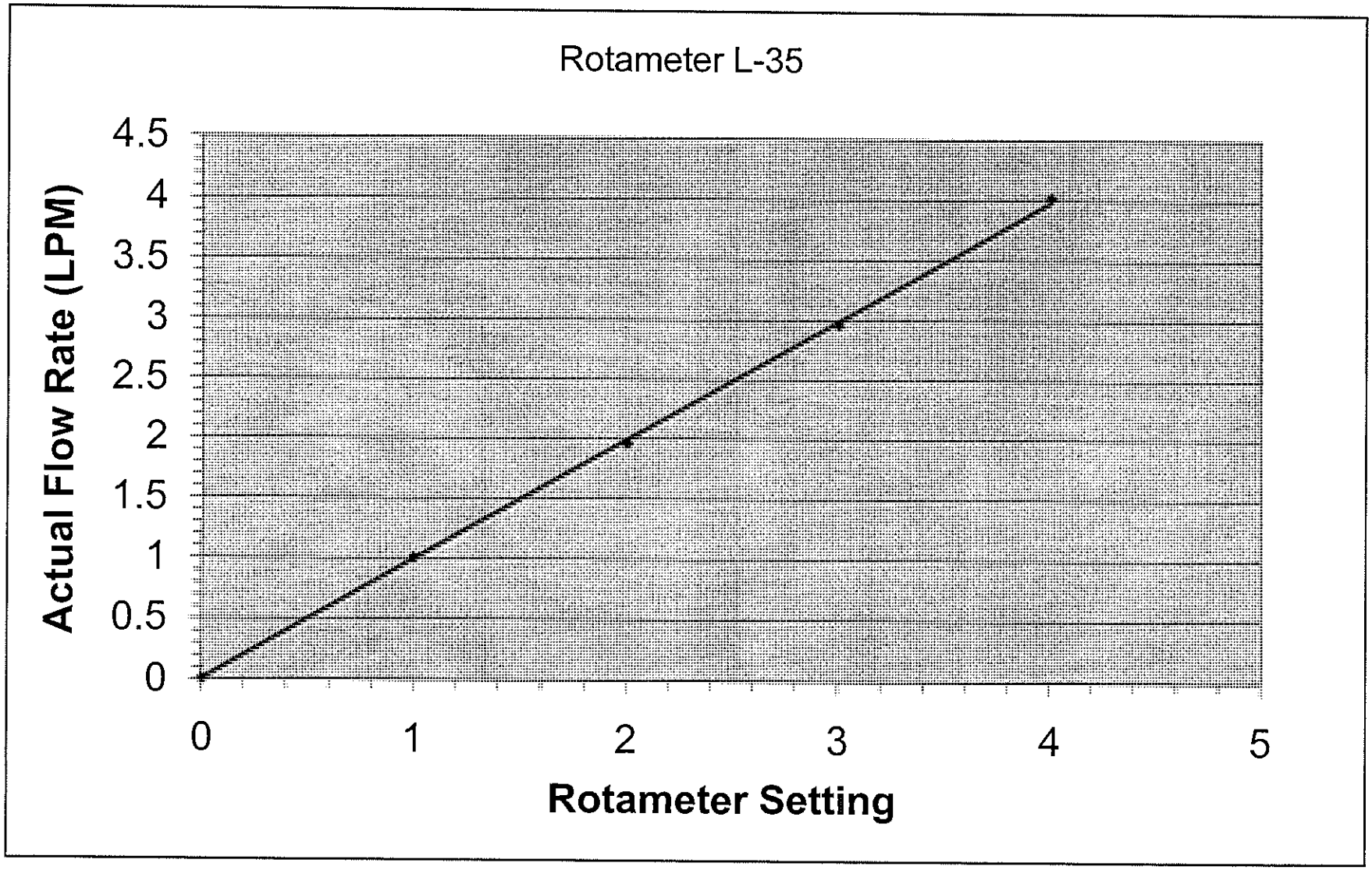
AIHA
2700 Prosperity Avenue, Suite 250
Fairfax, VA 22031
Phone: 703-849-8888; Fax: 703-207-8558

APPENDIX F
EQUIPMENT CALIBRATION DATA

Rotameter L-35

Rotameter Setting	Avg. Flow
0	0
1	1.00
2	1.96
3	2.96
4	4.02

Calibrated on: 06 November 2007
By: K. Williamson
Due: 06 May 2008

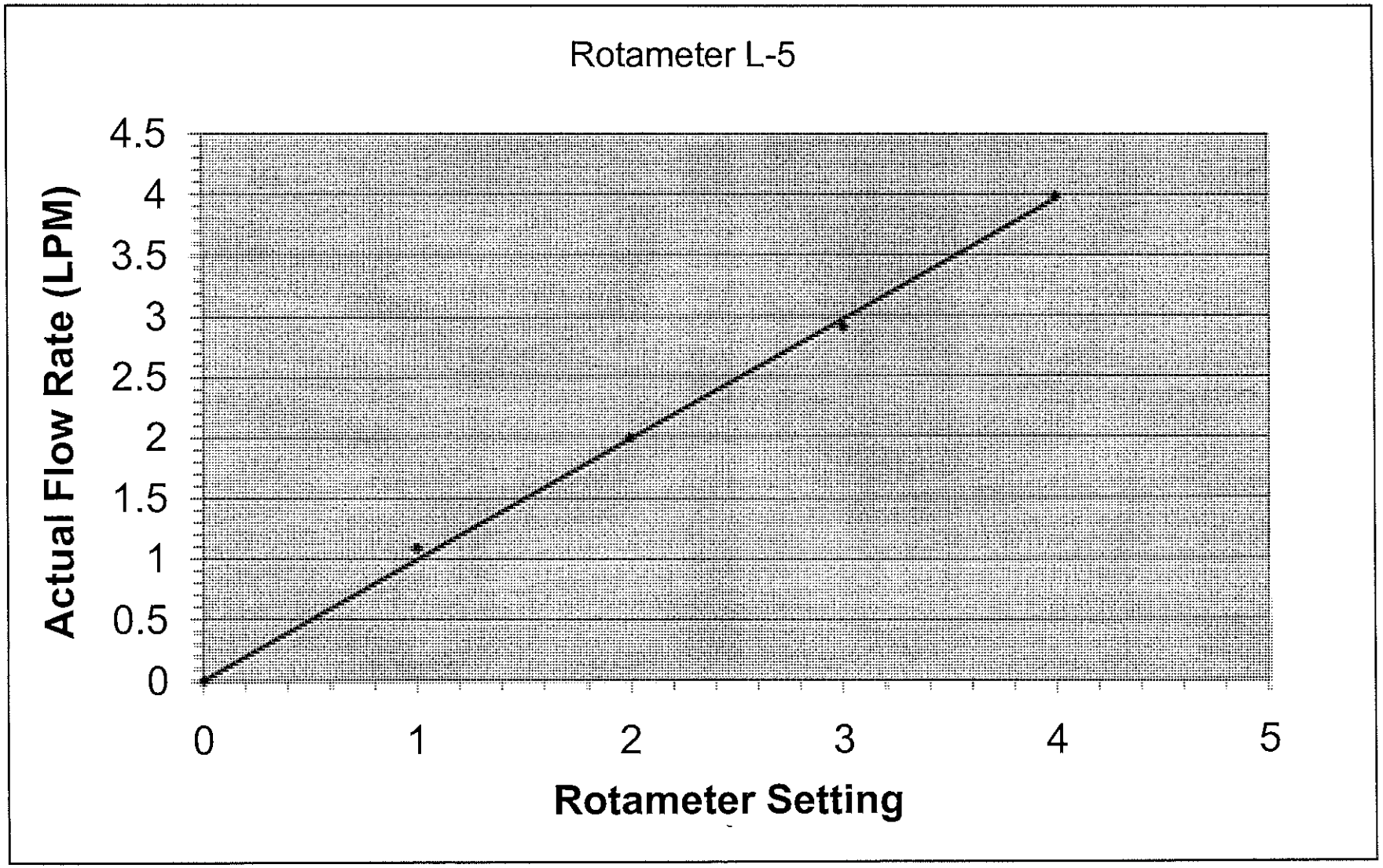


Rotameter calibrated using center of ball

Rotameter L-5

Rotameter Setting	Avg. Flow
0	0
1	1.09
2	1.99
3	2.91
4	3.99

Calibrated on: 06 November 2007
By: K. Williamson
Due: 06 May 2008

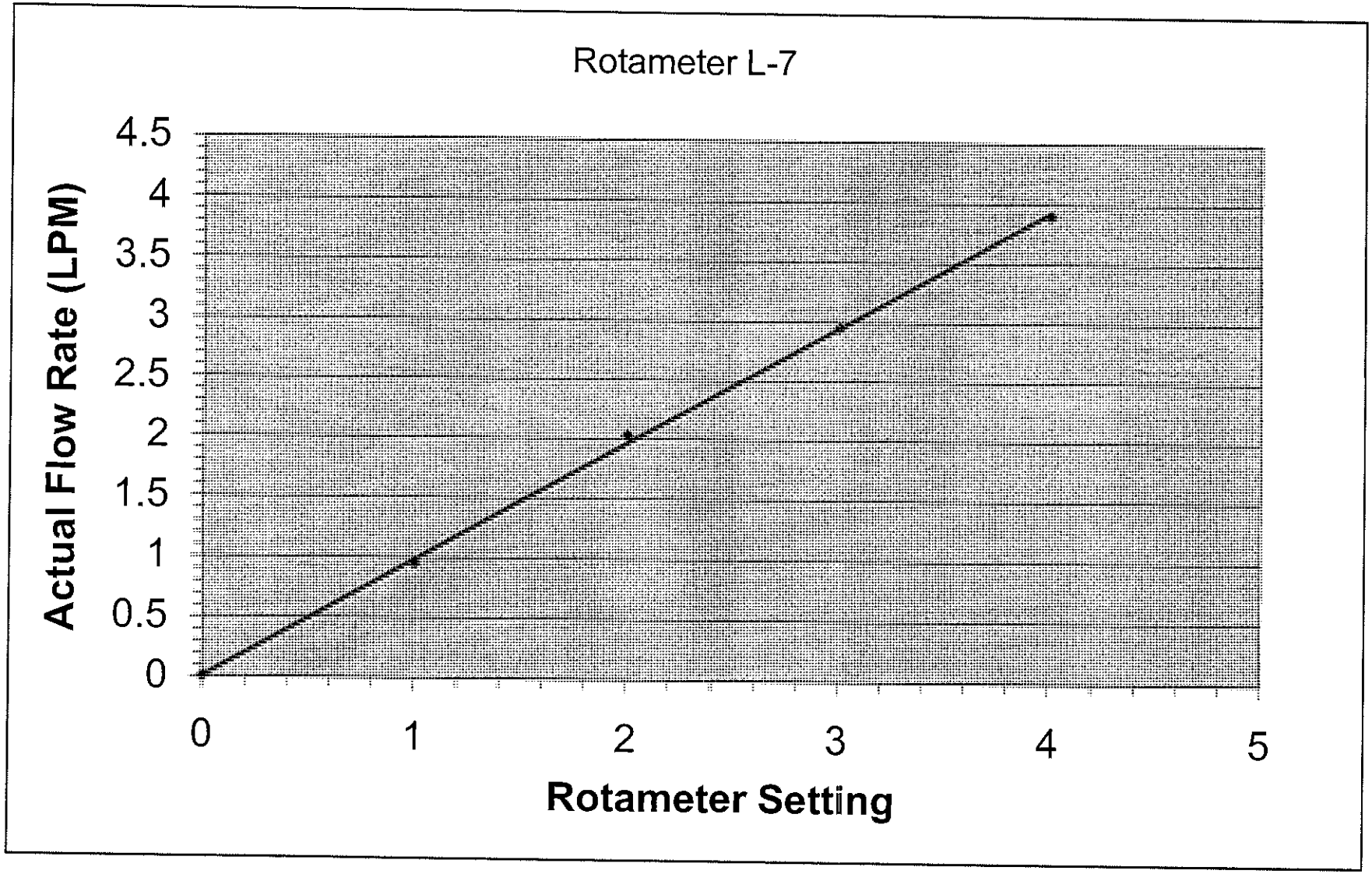


Rotameter calibrated using center of ball

Rotameter L-7

Rotameter Setting	Avg. Flow
0	0
1	0.95
2	2.03
3	2.95
4	3.90

Calibrated on: 6/25/07
By: K. Williamson
Due: 11/08/07



Rotameter calibrated using center of ball

Supersede Previous Edition

AIR SAMPLE ANALYSIS REPORT

CLIENT: DPW

SITE: Mystic Education Center

ADDRESS: 240 Oral School Rd
Mystic CT

CONTACT/NAME:

PHONE NO.:

PROJECT NO.: 106957.7600.0003 DATE: 12/20/07 PG 1 OF

SAMPLER PRINT: Dennis Ryder SIGNATURE: DATE 12/20/07

ANALYST PRINT: Dennis Ryder SIGNATURE: DATE ANALYZED 12/21/07

QC ANALYST PRINT: Dennis Ryder SIGNATURE: DATE ANALYZED 12/21/07

LAB SUPERVISOR PRINT: K Williamson SIGNATURE: K. Williamson DATE ISSUED 1/22/08

~~QC MANAGER PRINT:~~ ~~SIGNATURE:~~

ROTOMETER NO.: L-35 DATE OF CALIBRATION: 11/6/07 LAB NO.: 34973

SAMPLE TYPE: X PCM TEM OTHER (SPECIFY)

ANALYSIS METHOD: X NIOSH 7400 Issue 2 8/15/94 AHERA OTHER (SPECIFY)

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	1	2	3	4	5		
SAMPLING LOCATION/ COMMENTS	East end of hallway outside Room ~~#22~~	Inside room #17	west end of hallway outside room ~~#6~~	Field Blank	Field Blank		
TYPE OF SAMPLE	2	2	2				
PUMP NUMBER							
START TIME/STOP TIME	9:40 / 12:50	9:42 / 12:52	9:44 / 12:54	/	/	/	/
TOTAL TIME (min)	190 ✓	190 ✓	190 ✓				
FLOW RATE	2.5 / 2.5	2.5 / 2.5	2.5 / 2.5	/	/	/	/
TOTAL VOLUME (l)	475 ✓	475 ✓	475 ✓				
FB/FL — BFB/BFL	6/100	4/100	3/100	0/100	0/100		
AIRBORNE FIBER CONC. (fibers/cc)	0.006 ✓	ND < 0.006 ✓	ND < 0.006 ✓ QC 5/100	—	—		

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: Dennis Ryder DATE: TIME:

RECEIVED BY: K. Williamson DATE: 1/22/08 TIME: 0900

RELINQUISHED BY: DATE TIME:

RECEIVED BY: DATE: TIME:

Condition of Sample: OK
Acceptable: Y ✓ N
Comments:

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # AL014538 AIHA/PAT # 100122 NVLAP # 101424-0
ME # LB-0071 VA # 3333000283 TX # 300354

TRC

Supersede Previous Edition

AIR SAMPLE ANALYSIS REPORT

CLIENT: DPW

SITE: Mystic Education Center

ADDRESS: 240 Oral School Rd Mystic

CONTACT/NAME:

PHONE NO.:

PROJECT NO.: 106957.7600.0003 DATE: 12/21 PG ___ OF ___

SAMPLER PRINT: Dennis P. Ryder SIGNATURE: [signature] DATE 12/21/07

ANALYST PRINT: Dennis P. Ryder SIGNATURE: [signature] DATE ANALYZED 12/21/07

QC ANALYST PRINT: Dennis P. Ryder SIGNATURE: [signature] DATE ANALYZED 12/21/07

LAB SUPERVISOR PRINT: K Williams SIGNATURE: [signature] DATE ISSUED 1/22/08

~~QC MANAGER PRINT~~: ~~SIGNATURE~~:

ROTOMETER NO.: L-35 DATE OF CALIBRATION: 11/6/07 LAB NO.: 34973

SAMPLE TYPE: X PCM ___ TEM ___ OTHER (SPECIFY)

ANALYSIS METHOD: X NIOSH 7400 Issue 2 8/15/94 ___ AHERA ___ OTHER (SPECIFY)

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	6	7	8	9	10		
SAMPLING LOCATION/ COMMENTS	Field Blanks		East end of hall Basement level	I/S Room 22	West end in Kitchen		
TYPE OF SAMPLE			2	2	2		
PUMP NUMBER	X	X					
START TIME/STOP TIME			0835/1210	0837/1210	0836/1210	/	/
TOTAL TIME (min)			215 ✓	213 ✓	214 ✓		
FLOW RATE	/	/	2.5/2.5	2.5/2.5	2.5/2.5	/	/
TOTAL VOLUME (l)			538 ✓	533 ✓	535 ✓		
FB/FL — BFB/BFL	0/100	0/100	10/100	9/100	2/100 ✓		
AIRBORNE FIBER CONC. (fibers/cc)	—	—	0.009 ✓	0.008 ✓	ND<0.005 ✓		

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: [signature] DATE: ___ TIME: ___

RECEIVED BY: K Williams DATE: 1/22/08 TIME: 0900

RELINQUISHED BY: ___ DATE ___ TIME: ___

RECEIVED BY: ___ DATE: ___ TIME: ___

Condition of Sample: ok
Acceptable: Y ✓ N ___
Comments: ___

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # AL014538 AIHA/PAT # 100122 NVLAP # 101424-0
ME # LB-0071 VA # 3333000283 TX # 300354

TRC

Edition: July 2006
Supersede Previous Edition

AIR SAMPLE ANALYSIS REPORT

CLIENT: CT DEW
SITE: Mystic EDV Whipple BIDG Basement
ADDRESS: Groton, CT

CONTACT/NAME: Don Lepage
PHONE NO.: 860-298-6222

PROJECT NO.: 106957-760 003 DATE: 12/24/07 PG ___ OF ___
SAMPLER PRINT: B. Aston SIGNATURE: [signature] DATE 12/24/07
ANALYST PRINT: Helen Rimsa SIGNATURE: Helen Rimsa DATE ANALYZED 1/2/08
QC ANALYST PRINT: Helen Rimsa SIGNATURE: Helen Rimsa DATE ANALYZED 1/2/08
LAB SUPERVISOR PRINT: K Williamson SIGNATURE: K Williamson DATE ISSUED 1/2/08
~~QC MANAGER PRINT:~~ ___ ~~SIGNATURE:~~ ___

ROTOMETER NO.: L-7 DATE OF CALIBRATION: 11/6/07 LAB NO.: 34867
SAMPLE TYPE: X PCM ___ TEM ___ OTHER (SPECIFY) ___
ANALYSIS METHOD: X NIOSH 7400 Issue 2 8/15/94 ___ AHERA ___ OTHER (SPECIFY) ___

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	1	2	3	4			
SAMPLING LOCATION/ COMMENTS	Prep Area Hallway N	Prep Area Hallway S	Blank	Blank			
TYPE OF SAMPLE	2	2					
PUMP NUMBER							
START TIME/STOP TIME	0740 / 1345	740 / 1345	/	/	/	/	/
TOTAL TIME (min)	~~385~~ 365 ✓	~~385~~ 365 ✓					
FLOW RATE	2.8 / 2.7	2.6 / 2.6	/	/	/	/	/
TOTAL VOLUME (l)	~~1058.75~~ 1004 ✓	~~1001~~ 949 ✓					
FB/FL — BFB/BFL	1/100	1/100	0/100	0/100			
AIRBORNE FIBER CONC. (fibers/cc)	ND <0.003 ✓	ND <0.003 ✓	—	—			

QC 1/100

STANDARDS
≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD
RELINQUISHED BY: Mark Murphy DATE: 12-31-07 TIME: 0930
RECEIVED BY: Helen Rimsa DATE: 12/31/07 TIME: 1134
RELINQUISHED BY: ___ DATE ___ TIME: ___
RECEIVED BY: ___ DATE: ___ TIME: ___

Condition of Sample: OK
Acceptable: Y ✓ N ___
Comments: ___

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # AL014538 AIHA/PAT # 100122 NVLAP # 101424-0
ME # LB-0071 VA # 3333000283 TX # 300354

TRC

AIR SAMPLE ANALYSIS REPORT

CLIENT: CT DPW

SITE: Mystic Education Whipple B/DG

ADDRESS: Groton, CT

CONTACT/NAME: Don Lepage

PHONE NO.: 860-448-6222

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

PROJECT NO.: 106957-760-003 DATE: 12/26/07 PG ___ OF ___

SAMPLER PRINT: B. Aston SIGNATURE: [signature]

ANALYST PRINT: Helen Rimsa SIGNATURE: Helen Rimsa

QC ANALYST PRINT: Helen Rimsa SIGNATURE: Helen Rimsa

LAB SUPERVISOR PRINT: K. Williamson SIGNATURE: K. Williamson

~~QC MANAGER~~ PRINT: ___ SIGNATURE: ___

ROTOMETER NO.: L-7 DATE OF CALIBRATION: 11/6/07 LAB NO.: 34867

SAMPLE TYPE: 6 PCM ___ TEM ___ OTHER (SPECIFY)

ANALYSIS METHOD: ✓ NIOSH 7400 Issue 2 8/15/94 ___ AHERA ___ OTHER (SPECIFY)

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	5	6	7	8			
SAMPLING LOCATION/ COMMENTS	Hall prep North	Hall prep South	Blank	Blank			
TYPE OF SAMPLE	2	2					
PUMP NUMBER							
START TIME/STOP TIME	0745/1400	0745/1400	/	/	/	/	/
TOTAL TIME (min)	375 ✓	375 ✓					
FLOW RATE	2.7/2.6	2.6/2.6	/	/	/	/	/
TOTAL VOLUME (l)	993.75 ✓	975 ✓					
FB/FL − BFB/BFL	1/100	1/100	0/100	0/100			
AIRBORNE FIBER CONC. (fibers/cc)	ND<0.003 ✓	ND<0.003 ✓	—	—			

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: [signature] DATE: 12-31-07 TIME: 0930

RECEIVED BY: Helen Rimsa DATE: 12/31/07 TIME: 1134

RELINQUISHED BY: ___ DATE: ___ TIME: ___

RECEIVED BY: ___ DATE: ___ TIME: ___

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # 14538 AIHA # 6940 PAT # 6940 NVLAP # 101424

TRC Customer-Focused Solutions

Edition [illegible] 2006
Supersede Previous Edition

AIR SAMPLE ANALYSIS REPORT

CLIENT: CT DPW

SITE: Mystic Education Center - Whipple Basement

ADDRESS: Groton, CT

CONTACT/NAME: Don Lepage

PHONE NO.: (860) 298-6222

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

PROJECT NO.: 106957-7600-0003 DATE: 12/28/07 PG 1 OF 1

SAMPLER PRINT: Eric Hastett / Michelle Murphy SIGNATURE: Eric J. Hastett / Michelle Murphy DATE 12/28/07

ANALYST PRINT: Bryce Asbo SIGNATURE: [signature] DATE ANALYZED 12/29/07

QC ANALYST PRINT: Helen Rimsa SIGNATURE: Helen Rimsa DATE ANALYZED 1/22/08

LAB SUPERVISOR PRINT: K Williamson SIGNATURE: K. Williamson DATE ISSUED 1/22/08

~~QC MANAGER PRINT:~~ ~~SIGNATURE:~~

ROTOMETER NO.: L-5 DATE OF CALIBRATION: 11/6/07 LAB NO.: 34973

SAMPLE TYPE: ✓ PCM ____ TEM ____ OTHER (SPECIFY)

ANALYSIS METHOD: ✓ NIOSH 7400 Issue 2 8/15/94 ____ AHERA ____ OTHER (SPECIFY)

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	13	14	15	16			
SAMPLING LOCATION/ COMMENTS	on Door #22 near Decon	Room #8 on Top of negative AIR	Blank	Blank			
TYPE OF SAMPLE	2	2					
PUMP NUMBER							
START TIME/STOP TIME	0810 / 1405	0812 / 1407	/	/	/	/	/
TOTAL TIME (min) HR	355 ~~[illegible]~~ 295 ✓	355 ~~[illegible]~~ 295					
FLOW RATE	2.0 / 2.0	2.5 / 2.4	/	/	/	/	/
TOTAL VOLUME (l) HR	710 ~~[illegible]~~ 590 ✓	869 ~~[illegible]~~ 722					
FB/FL — BFB/BFL	3/100	4/100	0/100	0/100			
AIRBORNE FIBER CONC. (fibers/cc)	ND<0.005 ✓	ND<0.0043 ✓ HR	—	—			

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: Eric J. Hastett DATE: 12/28/07 TIME: ____

RECEIVED BY: K. Williamson DATE: 1/22/08 TIME: 0900

RELINQUISHED BY: ____ DATE ____ TIME: ____

RECEIVED BY: ____ DATE: ____ TIME: ____

Condition of Sample: OK
Acceptable: Y ____ N ____
Comments: ____

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # AL014538 AIHA/PAT # 100122 NVLAP # 101424-0
ME # LB-0071 VA # 3333000283 TX # 300354

TRC

Edit[illegible] y 200
Supersede Previous Edition

AIR SAMPLE ANALYSIS REPORT

CLIENT: CT DPW
SITE: Mystic Continuous ED
ADDRESS: Groton, CT

CONTACT/NAME: Don Lepay
PHONE NO.: 860-298-6222

PROJECT NO.: 106957-7600-003 DATE: 12/31/07 PG ___ OF ___
SAMPLER PRINT: B. Aston SIGNATURE: [signature] DATE 12/31/07
ANALYST PRINT: B. Aston SIGNATURE: [signature] DATE ANALYZED 1/2/07
QC ANALYST PRINT: Helen Rimsa SIGNATURE: Helen Rimsa DATE ANALYZED 1/22/08
LAB SUPERVISOR PRINT: K Williamson SIGNATURE: K. Williamson DATE ISSUED 1/22/08
~~QC MANAGER PRINT:~~ ~~SIGNATURE:~~

ROTOMETER NO.: L-7 DATE OF CALIBRATION: 11/6/07 LAB NO.: 34973
SAMPLE TYPE: 6 PCM ___ TEM ___ OTHER (SPECIFY)
ANALYSIS METHOD: 6 NIOSH 7400 Issue 2 8/15/94 ___ AHERA ___ OTHER (SPECIFY)

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	17	18	19	20			
SAMPLING LOCATION/ COMMENTS	Decon Dirty Room	Res Air Exhaust	Blank	Blank			
TYPE OF SAMPLE	3	4					
PUMP NUMBER							
START TIME/STOP TIME	800 / 1700	800 / 1400	/	/	/	/	/
TOTAL TIME (min)	360 ~~350~~ ✓	360 ✓					
FLOW RATE	2.6 / 2.5	2.5 / 2.0	/	/	/	/	/
TOTAL VOLUME (l)	918 ~~918~~ 892.5 ✓	810 ✓					
FB/FL — BFB/BFL	3/100	4/100	0/100	0/100			
AIRBORNE FIBER CONC. (fibers/cc)	ND<0.03 ✓	ND<0.03 ✓	—	—			

~~BK~~ QC 2/100

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: D. Ryder DATE: ___ TIME: ___
RECEIVED BY: K Williamson DATE: 1/22/08 TIME: 0900
RELINQUISHED BY: ___ DATE ___ TIME: ___
RECEIVED BY: ___ DATE: ___ TIME: ___

Condition of Sample: OK
Acceptable: Y ✓ N ___
Comments: ___

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # AL014538 AIHA/PAT # 100122 NVLAP # 101424-0
ME # LB-0071 VA # 3333000283 TX # 300354

TRC

AIR SAMPLE ANALYSIS REPORT

CLIENT: CT DPW

SITE: Mystic Education Center

ADDRESS: 240 Oral School Rd
Mystic CT
Whipple Bldg

CONTACT/NAME:

PHONE NO.:

Qc 4/100

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

PROJECT NO.: 106957.7600.0003 DATE: 1/2/08 PG ___ OF ___

SAMPLER PRINT: Bryce Aston SIGNATURE: ___ DATE ___

ANALYST PRINT: Dennis P Ryder SIGNATURE: [signature] DATE ANALYZED 1/3/07

QC ANALYST PRINT: Dennis P Ryder SIGNATURE: [signature] DATE ANALYZED 1/3/07

LAB SUPERVISOR PRINT: K Williamson SIGNATURE: K. Williamson DATE ISSUED 1/22/08

~~QC MANAGER PRINT:~~ ___ ~~SIGNATURE:~~ ___

ROTOMETER NO.: L-7 DATE OF CALIBRATION: 11/6/07 LAB NO.: 34973

SAMPLE TYPE: X PCM ___ TEM ___ OTHER (SPECIFY)

ANALYSIS METHOD: X NIOSH 7400 Issue 2 8/15/94 ___ AHERA ___ OTHER (SPECIFY)

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	21	22	23	24			
SAMPLING LOCATION/ COMMENTS	waste load-out Hall	Neg Air exhaust	FB	FB			
TYPE OF SAMPLE	4	4					
PUMP NUMBER							
START TIME/STOP TIME	0800/1430	0800/1430	X	X	/	/	/
TOTAL TIME (min)	390	390	X	X			
FLOW RATE	4.0/4.0	2.5/2.5	/	/	/	/	/
TOTAL VOLUME (l)	1560	975					
FB/FL — BFB/BFL	4/100	~~ND~~ DR 0/100	0/100	0/100			
AIRBORNE FIBER CONC. (fibers/cc)	ND < 0.002	ND < 0.0023 HR	—	—			

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: D. Ryder DATE: ___ TIME: ___

RECEIVED BY: K Williamson DATE: 1/22/08 TIME: 0900

RELINQUISHED BY: ___ DATE ___ TIME: ___

RECEIVED BY: ___ DATE: ___ TIME: ___

Condition of Sample: OK
Acceptable: Y ___ N ___
Comments: ___

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # AL014538 AIHA/PAT # 100122 NVLAP # 101424-0
ME # LB-0071 VA # 3333000283 TX # 300354

TRC

Supersede Previous Edition

AIR SAMPLE ANALYSIS REPORT

CLIENT: CT DPW

SITE: Mystic Continuing Education Center

ADDRESS: 240 Oral School Rd
Mystic CT
Whipple Hall

CONTACT/NAME:

PHONE NO.:

PROJECT NO.: 106957.7600.0003 DATE: 1/3/08 PG ___ OF ___

SAMPLER PRINT: Dennis P. Ryder SIGNATURE: Dennis P Ryder DATE 1/3/08

ANALYST PRINT: Dennis P. Ryder SIGNATURE: Dennis P Ryder DATE ANALYZED 1/4/08

QC ANALYST PRINT: Dennis P Ryder SIGNATURE: Dennis P Ryder DATE ANALYZED 1/4/08

LAB SUPERVISOR PRINT: K Williamson SIGNATURE: K Williamson DATE ISSUED 1/22/08

~~QC MANAGER PRINT:~~ ~~SIGNATURE:~~

ROTOMETER NO.: L-35 DATE OF CALIBRATION: 11/6/07 LAB NO.: 34973

SAMPLE TYPE: X PCM ___ TEM ___ OTHER (SPECIFY)

ANALYSIS/METHOD: X NIOSH 7400 Issue 2 8/15/94 ___ AHERA ___ OTHER (SPECIFY)

QC 10/100 HR

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	25	26	27	28	29		
SAMPLING LOCATION/ COMMENTS	FB	FB	Basement o/s De-con (east side)	o/s at Neg Air exhaust (north side)	1st floor stair landing o/s Rm (west side)		
TYPE OF SAMPLE			L	L	L		
PUMP NUMBER							
START TIME/STOP TIME			0907/1427	0912/1420	0915/1425	/	/
TOTAL TIME (min)			320 ✓	308 ✓	310 ✓		
FLOW RATE			2.5/2.5	2.5/2.5	2.5/2.5	/	/
TOTAL VOLUME (l)			800 ✓	770 ✓	775 ✓		
FB/FL — BFB/BFL	0/100	0/100	9/100	1/100	2/100		
AIRBORNE FIBER CONC. (fibers/cc)	—	—	0.006 ✓	ND< 0.004 ✓	ND< 0.0034 ✓		

QC 4/100 HR

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: Dennis P Ryder DATE: ___ TIME: ___

RECEIVED BY: K Williamson DATE: 1/22/08 TIME: 0900

RELINQUISHED BY: ___ DATE ___ TIME: ___

RECEIVED BY: ___ DATE: ___ TIME: ___

Condition of Sample: OK
Acceptable: Y ✓ N ___
Comments: ___

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # AL014538 AIHA/PAT # 100122 NVLAP # 101424-0
ME # LB-0071 VA # 3333000283 TX # 300354

TRC

AIR SAMPLE ANALYSIS REPORT

CLIENT: CT DPW

SITE: Mystic Education Center

ADDRESS: 240 Oral School Rd
Mystic CT

CONTACT/NAME:

PHONE NO.:

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

PROJECT NO.: 106957.7600.0003 DATE: 1/4/08 PG ___ OF ___

SAMPLER PRINT: Dennis P. Ryder SIGNATURE: [signature] DATE 1/4/08

ANALYST PRINT: Dennis P. Ryder SIGNATURE: [signature] DATE ANALYZED 1/4/08

QC ANALYST PRINT: Dennis P. Ryder SIGNATURE: [signature] DATE ANALYZED 1/7/08

LAB SUPERVISOR PRINT: K. Williams SIGNATURE: [signature] DATE ISSUED 1/22/08

~~QC MANAGER PRINT:~~ ~~SIGNATURE:~~

ROTOMETER NO.: L-35 DATE OF CALIBRATION: 11/6/07 LAB NO.: 34973

SAMPLE TYPE: X PCM ___ TEM ___ OTHER (SPECIFY)

ANALYSIS METHOD: X NIOSH 7400 Issue 2 8/15/94 ___ AHERA ___ OTHER (SPECIFY)

QC 5/100 DR

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	30	31	32	33	34		
SAMPLING LOCATION/ COMMENTS	FB	FB	Basement o/s De-Con (east side)	o/s at Neg Air west end	1st floor i/s conference rm above containment.		
TYPE OF SAMPLE			4	4	4		
PUMP NUMBER	X	X					
START TIME/STOP TIME			0925/1400	0926/1402	0927/1401	/	/
TOTAL TIME (min)			275 ✓	276 ✓	274 ✓		
FLOW RATE	/	/	2.5/2.5	2.5/2.5	2.5/2.5	/	/
TOTAL VOLUME (l)			688 ✓	690 ✓	685 ✓		
FB/FL — BFB/BFL	0/100	0/100	3/100	3/100	6/100		
AIRBORNE FIBER CONC. (fibers/cc)	—	—	ND < 0.004 ✓	ND < 0.004 ✓	0.004 ✓		

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: [signature] DATE: ___ TIME: ___

RECEIVED BY: [signature] DATE: 1/22/08 TIME: 0900

RELINQUISHED BY: ___ DATE ___ TIME: ___

RECEIVED BY: ___ DATE: ___ TIME: ___

Condition of Sample: ok
Acceptable: Y ✓ N ___
Comments: ___

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # AL014538 AIHA/PAT # 100122 NVLAP # 101424-0
ME # LB-0071 VA # 3333000283 TX # 300354

TRC

AIR SAMPLE ANALYSIS REPORT

CLIENT: CT DPW

SITE: Mystic Ed Center

ADDRESS: 240 Oral School Rd Mystic CT

CONTACT/NAME:

PHONE NO.:

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

PROJECT NO.: 106957.2600.003 DATE: 1/2/08 PG ___ OF ___

SAMPLER PRINT: Dennis P. Ryder SIGNATURE: [signature] DATE ___

ANALYST PRINT: Dennis P. Ryder SIGNATURE: [signature] DATE ANALYZED 1/8/08

QC ANALYST PRINT: Dennis P. Ryder SIGNATURE: [signature] DATE ANALYZED 1/8/08

LAB SUPERVISOR PRINT: K Williamson SIGNATURE: [signature] DATE ISSUED 1/22/08

~~QC MANAGER PRINT:~~ ___ ~~SIGNATURE:~~ ___

ROTOMETER NO.: L-35 DATE OF CALIBRATION: 11/6/07 LAB NO.: 34973

SAMPLE TYPE: X PCM ___ TEM ___ OTHER (SPECIFY)

ANALYSIS METHOD: X NIOSH 7400 Issue 2 8/15/94 ___ AHERA ___ OTHER (SPECIFY)

QC 3/100 DR

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	35	36	37	38	39		
SAMPLING LOCATION/ COMMENTS	FB	FB	Basement o/s De-Con (east end)	Neg Air exhaust on North side	Hall o/s Rm 158 1st floor		
TYPE OF SAMPLE			4	4	4		
PUMP NUMBER	X	X					
START TIME/STOP TIME			0745/1048	0746/1046	0747/1047	/	/
TOTAL TIME (min)			183 ✓	180 ✓	180 ✓		
FLOW RATE	/	/	2.5/2.5	2.5/2.5	2.5/2.5	/	/
TOTAL VOLUME (l)			458 ✓	450 ✓	450 ✓		
FB/FL — BFB/BFL	0/100	0/100	4/100	2/100	5/100		
AIRBORNE FIBER CONC. (fibers/cc)	—	—	ND <0.006 ✓	ND <0.006 ✓	ND <0.006 ✓		

QC 4/100

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: [signature] DATE: ___ TIME: ___

RECEIVED BY: [signature] DATE: 1/22/08 TIME: 0900

RELINQUISHED BY: ___ DATE ___ TIME: ___

RECEIVED BY: ___ DATE: ___ TIME: ___

Condition of Sample: OK
Acceptable: Y ✓ N ___
Comments: ___

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # AL014538 AIHA/PAT # 100122 NVLAP # 101424-0
ME # LB-0071 VA # 3333000283 TX # 300354

TRC

AIR SAMPLE ANALYSIS REPORT

CLIENT: CT DPW

SITE: Mystic Ed Center

ADDRESS: 240 Oral School Rd Mystic

CONTACT/NAME:

PHONE NO.:

PROJECT NO.: 106957.7600.0003 DATE: 1/8/08 PG ___ OF ___

SAMPLER PRINT: Dennis P. Ryder SIGNATURE: DATE 1/8/08

ANALYST PRINT: Dennis P Ryder SIGNATURE: DATE ANALYZED 1/8/08

QC ANALYST PRINT: Dennis P Ryder SIGNATURE: DATE ANALYZED 1/8/08

LAB SUPERVISOR PRINT: K Williamson SIGNATURE: K Williamson DATE ISSUED 1/22/08

~~QC MANAGER PRINT:~~ ~~SIGNATURE:~~

ROTOMETER NO.: L-35 DATE OF CALIBRATION: ___ LAB NO.: 34973

SAMPLE TYPE: X PCM ___ TEM ___ OTHER (SPECIFY)

ANALYSIS METHOD: X NIOSH 7400 Issue 2 8/15/94 ___ AHERA ___ OTHER (SPECIFY)

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory. QC 3/10

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	47	48	49	50			
SAMPLING LOCATION/ COMMENTS	i/s Room 162	o/s on fence next to window being replaced	FB	FB			
TYPE OF SAMPLE	4	4					
PUMP NUMBER							
START TIME/STOP TIME	0845/1120	0846/1120					
TOTAL TIME (min)	155 ✓	154 ✓					
FLOW RATE	2.5/2.5	2.5/2.5					
TOTAL VOLUME (l)	388 ✓	385 ✓					
FB/FL — BFB/BFL	4/100	4/100	0/100	0/100			
AIRBORNE FIBER CONC. (fibers/cc)	ND < 0.007 ✓	ND < 0.007 ✓	—	—			

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: K Williamson DATE: ___ TIME: ___

RECEIVED BY: ___ DATE: 1/22/08 TIME: 0900

RELINQUISHED BY: ___ DATE ___ TIME: ___

RECEIVED BY: ___ DATE: ___ TIME: ___

Condition of Sample: OK
Acceptable: Y ___ N ___
Comments:

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # AL014538 AIHA/PAT # 100122 NVLAP # 101424-0
ME # LB-0071 VA # 3333000283 TX # 300354

TRC

APPENDIX I
TEM AIR SAMPLE ANALYSIS

ProScience Analytical Services, Inc

683 N Mountain Rd • Newington, CT 06111 • Phone (860)-953-1022 • Fax (860)-953-1030 general@proscience.net

Client #: 297
Client Project: 106957-7600-0003
Client Reference: Mystic Ed Center - Mystic, CT
Client Name: TRC Environmental Corp. (CT)

Method: AHERA
Batch: CTAT 705
Date Analyzed: 1/9/2008
Date Received: 1/8/2008
Date of Report: 1/9/2008

Lab ID	Client ID	Description	Type	Grid Area	# G.O.	VOL(L)	Analytical Sensitivity	Total # STR.	#STR. >=5	Total s/cc	Total Asbestos >=5	Total s/mm 2	>=5
A4462	40	Containment - Whipple Hall Basement	In	.009027	8	1200	.0044	NSD	NSD	NSD	NSD	NSD	NSD
A4463	41	Containment - Whipple Hall Basement	In	.009027	8	1200	.0044	NSD	NSD	NSD	NSD	NSD	NSD
A4464	42	Containment - Whipple Hall Basement	In	.009027	8	1200	.0044	NSD	NSD	NSD	NSD	NSD	NSD
A4465	43	Containment - Whipple Hall Basement	In	.009027	8	1200	.0044	NSD	NSD	NSD	NSD	NSD	NSD
A4466	44	Containment - Whipple Hall Basement	In	.009027	8	1200	.0044	NSD	NSD	NSD	NSD	NSD	NSD

ASBESTOS STRUCTURE TYPE TOTAL

CHR	AMO	CRO	ACT	TRE	ANT
0	0	0	0	0	0

Comments:

All sizes in microns

Asbestos Codes: CHR = Chrysotile AMO = Amosite CRO = Crocidolite ACT = Actinolite TRE = Tremolite ANT = Anthophyllite NSD = No Structures Detected

Mark Derosier, Analyst

Edition: July 2006
Supersede Previous Edition

CTAT 705

AIR SAMPLE ANALYSIS REPORT

CLIENT: CT DPW
SITE: Mystic Ed Center
ADDRESS: 210 Oral School Rd
Mystic, CT
call Dennis 860-573-0145
CONTACT/NAME: with results.
PHONE NO.: Do Not Analyze blanks.

PROJECT NO.: 106957.7600.0003 DATE: 1/8/08 PG ___ OF ___
SAMPLER PRINT: Dennis P. Ryder SIGNATURE: D. Ryder DATE 1/8/08
ANALYST PRINT: ___ SIGNATURE: ___ DATE ANALYZED ___
QC ANALYST PRINT: ___ SIGNATURE: ___ DATE ANALYZED ___
LAB SUPERVISOR PRINT: ___ SIGNATURE: ___ DATE ISSUED ___
QC MANAGER PRINT: ___ SIGNATURE: ___

ROTOMETER NO.: H-36 DATE OF CALIBRATION: 11/6/07 LAB NO.: ___
SAMPLE TYPE: ___ PCM X TEM ___ OTHER (SPECIFY)
ANALYSIS METHOD: ___ NIOSH 7400 Issue 2 8/15/94 X AHERA ___ OTHER (SPECIFY)

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	40	41	42	43	44	45	46
SAMPLING LOCATION/ COMMENTS	← Whipple Hall		Basement containment →			FB	FB
TYPE OF SAMPLE	6	6	6	6	6		
PUMP NUMBER							
START TIME/STOP TIME	0750/0950	0750/0950	0750/0950	0750/0950	0750/0950		
TOTAL TIME (min)	120	120	120	120	120		
FLOW RATE	10/10	10/10	10/10	10/10	10/10		
TOTAL VOLUME (l)	1200	1200	1200	1200	1200		
FB/FL — BFB/BFL							
AIRBORNE FIBER CONC. (fibers/cc)							

STANDARDS
≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD
RELINQUISHED BY: D. Ryder DATE: 1/8/08 TIME: 1420
RECEIVED BY: mo DATE: 1-9-08 TIME: 9:00AM
RELINQUISHED BY: ___ DATE ___ TIME: ___
RECEIVED BY: ___ DATE: ___ TIME: ___

Condition of Sample: ___
Acceptable: Y ___ N ___
Comments: ___

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # AL014538 AIHA/PAT # 100122 NVLAP # 101424-0
ME # LB-0071 VA # 3333000283 TX # 300354

TRC

APPENDIX J
ASBESTOS WASTE SHIPMENT RECORDS

4005

18140

RED TECHNOLOGIES, LLC
REMEDIATION ENGINEERING & DEVELOPMENT

173 Pickering Street
Portland, CT 06480
(860) 342-1022
Fax: (860) 342-1042

E.P.A. AGENCY

CT, MA RI, VT, NH, ME GENERATORS
EPA New England
1 Congress Street
Boston, MA 02114-2023
(617) 918-1111

NY GENERATORS
EPA Region 2
290 Broadway, 26th Floor
New York, NY 10007-1866
(212) 264-6770

181594

TK# 18141 ASBESTOS DISPOSAL & DOCUMENTATION FORM

Job Number 201-3023 P.O. #
Contractor Petco Insulation Co., Inc.
Address 88 Farwell St., Suite 1
City West Haven State CT Zip 06516
Telephone Number (203) 934-3926
Date Container Del. 1/2/08 Date of Pickup 1/23/08
Type of Container 40 YD
VOLUME 14.88 **CY** Friable ☒ Non-Friable ☐
MUST BE IN CUBIC YARDS

Bag ☒ Drum ☐ T-Pack ☐ Wrapped ☐ Other ☐

GENERATOR/BUILDING OWNER
State of CT, DPW
Address 165 Capitol Ave.
City Hartford, CT 06106 State Zip
Phone Number

GENERATING LOCATION
Mystic Education, Whipple Bldg
Address Mystic Oral School Road
City Groton, CT State Zip
Phone Number

I certify the above named material does not contain free liquid as defined by 40 CFR part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to NESHAP standards for asbestos waste disposal found in 40 CFR part 61.150.
Shipper's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations.

AUTHORIZED SIGNATURE D. Pell

Transporter 1: Red Technologies 10 Northwood Dr. Bloomfield CT 06002 860-218-2428
Name Address Telephone #
Driver: Signature Registration #: 426908 CT State / # Date: 1-23-08
Acknowledgement of receipt of materials

Transporter 2:
Name Address Telephone #
Driver: N/A Signature Registration #: State / # Date:
Acknowledgement of receipt of materials

Transfer Facility: Charles M. Gordon & Sons, Inc 203 Pickering St. Portland, CT 06480 **Permit #:**
860-342-1022 Permit# 1130836-DO
Transfer Date: **By:** Lindsay Skelly
Discrepancy:
Certification of transfer of materials covered by this manifest

Transporter 3: Bumpus Trucking 491 Jonesboro Rd. Washington CH, OH 43160 740-335-0318
Name Address Telephone #
Driver: Signature Registration #: State / # Date: 1-25-08
Acknowledgement of receipt of materials

Landfill Name: Minerva Enterprises 330-866-3435 Phone No:
Location: 9000 Minerva Road Waynesburg OH, 44688 Permit #
Approximate Volume of Asbestos Received:
Discrepancy If Any:
Received by: Date: 1-26-08
Certification of transfer of materials covered by this manifest

GENERATOR

- DRAFT -

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
WHIPPLE BUILDING (DPW Building 16947)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: March, 2001

DELTA
ENVIRONMENTAL
SERVICES®, INC.

81 Schoolground Road
P.O. Box 564, Branford, CT
(203) 481-7668

- DRAFT -

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
WHIPPLE BUILDING (DPW Building 16947)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
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PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: March, 2001

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1.0 INTRODUCTION

This report summarizes the results of an asbestos and lead inspection conducted by DELTA Environmental Services, Inc. (DELTA) for the Whipple Building (DPW Building Number 16947) at the Mystic Education Center facility at 290 Oral School Road in Mystic, Connecticut. The project consisted of: review of available building records; physical inspection of the building to determine the quantities and locations of asbestos-containing materials (ACM); and bulk sampling of suspected asbestos-containing materials (ACM).

2.0 BUILDING DESCRIPTION

Mystic Education Center is a seven-building campus-type facility. The property consists of approximately 122 acres and 250,000 square feet of building floor space. The Whipple Building is a two-story (with full basement) 24,500± square foot structure. The building was constructed in 1968. The building consists of: offices, classrooms and storage areas in the basement; classrooms, offices and a cafeteria on the first floor; and dormitory rooms on the second floor. The building is heated by a forced hot air system. The building is served by the boiler room in the basement of the Girls' Building. A mechanical attic with air handling equipment is present in the building, accessible by a hatch in the third floor ceiling. Room numbers referred to in this report correspond to the building diagrams in Appendix D.

3.0 ASBESTOS SURVEY

3.1 Asbestos Sampling Procedures

Bulk samples of suspected ACM were collected by James P. McCarthy, P.E., of DELTA, a Connecticut Department of Public Health licensed inspector. Samples were collected using a clean knife or other appropriate tool after first wetting the material to be sampled to limit fiber release.

Samples were placed in dedicated sealable plastic bags and promptly transmitted to the analytical laboratory using strict chain of custody procedures. Sampling was performed in accordance with Environmental Protection Agency protocols, which require a minimum of three negative results in order to establish that a material does not contain asbestos.

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
49	142-666-64	Light Brown 9" Floor Tile	Corridor No. 1 Near Dining Room	Not Analyzed*
50	142-666-65	Mastic From Light Brown 9" Floor Tile	Corridor No. 1 Near Dining Room	11% Chrysotile
51	142-666-66 142-666-69	Gray 9" Floor Tile Mastic From Above	Room 165	Not Analyzed* 8% Chrysotile
52	142-666-67 142-666-70	Gray 9" Floor Tile Mastic From Above	Room 165	Not Analyzed* Not Analyzed*
53	142-666-68	Gray 9" Floor Tile	Room 165	Not Analyzed*
54	142-666-71	Mastic From Gray 9" Floor Tile	Room 165	Not Analyzed*
55	1248505	Tan Dot Pattern 9" Floor Tile	Room 201 Connecting Passage	1.50% Chrysotile (Point Count)
56	1248506	Mastic From Tan Dot Pattern 9" Floor Tile	Room 201 Connecting Passage	NAD
57	1248507	Brown 9" Floor Tile	Room 240	3.0% Chrysotile (Point Count)
58	1248508	Brown 9" Floor Tile	Room 240	Not Analyzed*
59	1248509	Brown 9" Floor Tile	Room 233	Not Analyzed*

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WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
60	1248510	White Dot Pattern 9" Floor Tile	Ground Floor Landing Stairwell 2	2.50% Chrysotile (Point Count)
61	1248511	White Dot Pattern 9" Floor Tile	Ground Floor Landing Stairwell 2	Not Analyzed*
62	1248512	White Dot Pattern 9" Floor Tile	Ground Floor Landing Stairwell 2	Not Analyzed*
63	1248513	White with Brown Specks 9" Floor Tile	Second Floor Landing Stairwell 1	1.50% Chrysotile (Point Count)
64	1248514	Mastic From White with Brown Specks 9" Floor Tile	Second Floor Landing Stairwell 1	10% Chrysotile
80	142-666-102	Cementitious Fitting on Fiberglass Insulated Piping	Corridor Above Susp. Ceiling Near Room 156	NAD
81	142-666-103	Cementitious Fitting on Fiberglass Insulated Piping	Corridor Above Susp. Ceiling Near Room 156	NAD
82	142-666-104	Cementitious Fitting on Fiberglass Insulated Piping	Corridor Above Susp. Ceiling Near Room 156	NAD
83	142-666-105 142-666-108	Tan 9" Dot Pattern Floor Tile Mastic From Above	Corridor Connecting Passage 201	3% Chrysotile NAD
84	142-666-106 142-666-109	Tan 9" Dot Pattern Floor Tile Mastic From Above	Corridor Connecting Passage 201	Not Analyzed* NAD

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WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
85	142-666-107	Tan 9" Dot Pattern Floor Tile	Corridor Connecting Passage 201	Not Analyzed*
	142-666-110	Mastic From Above		NAD
86	142-666-111	Light Brown 9" Floor Tile	Corridor Near Exit	Not Analyzed*
	142-666-113	Mastic From Above		14% Chrysotile
87	142-666-112	Light Brown 9" Floor Tile	Corridor Near Exit	Not Analyzed*
	142-666-114	Mastic From Above		Not Analyzed*
88	142-666-115	Green 9" Floor Tile	Dining Room 151	Not Analyzed*
	142-666-118	Mastic From Above		12% Chrysotile
89	142-666-116	Green 9" Floor Tile	Dining Room 151	Not Analyzed*
	142-666-119	Mastic From Above		Not Analyzed*
90	142-666-117	Green 9" Floor Tile	Dining Room 151	Not Analyzed*
	142-666-120	Mastic From Above		Not Analyzed*
91	142-666-121	Beige 9" Floor Tile	Dining Room 151	Not Analyzed*
	142-666-124	Mastic From Above		17% Chrysotile

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
92	142-666-122 142-666-125	Beige 9" Floor Tile Mastic From Above	Dining Room 151	Not Analyzed* Not Analyzed*
93	142-666-123 142-666-126	Beige 9" Floor Tile Mastic From Above	Dining Room 151	Not Analyzed* Not Analyzed*
94	142-666-127	Suspended Ceiling Tile 2' X 2' Type 3 Brown Layered Texture Groove Pattern	Ground Floor Corridor No. 1	NAD
95	142-666-128	Suspended Ceiling Tile 2' X 2' Type 3 Brown Layered Texture Groove Pattern	Ground Floor Corridor No. 1	NAD
96	142-666-129	Suspended Ceiling Tile 2' X 2' Type 3 Brown Layered Texture Groove Pattern	Ground Floor Corridor No. 2	NAD
97	1217300	Gray 9" Floor Tile Mastic	Basement Room 23	1.25% Chrysotile (Point Count) 8.25% Chrysotile (Point Count)

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
98	1217301	Beige 12" Floor Tile Mastic	Basement Room 120	NAD 3.50% Chrysotile (Point Count)
99	1217302	Beige 12" Floor Tile Mastic	Basement Room 120	NAD Not Analyzed*
100	1217303	Beige 12" Floor Tile Mastic	Basement Room 120	NAD Not Analyzed*
101	1217304	Glue Dot from Corkboard	Basement Room 120	1.50% Chrysotile (Point Count)
102	1217305	Glue Dot from Corkboard	Basement Room 120	Not Analyzed*
103	1217306	Glue Dot from Corkboard	Basement Room 120	Not Analyzed*
104	1217307	Light Brown 9" Floor Tile Mastic	Corridor Near Room 154	1.75% Chrysotile (Point Count) 10% Chrysotile

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WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
105	1217308	Green 9" Floor Tile Mastic	Dining Room 155	3.25% Chrysotile (Point Count) 10% Chrysotile
106	1217309	Suspended Ceiling Tile 2' X 4' Brown Interior	Dining Room 155	NAD
107	1217310	Light Brown 9" Floor Tile Mastic	Basement Corridor Near Room 22	2.5% Chrysotile (Point Count) NAD
108	1217311	Beige 9" Floor Tile Mastic	Basement Closet Room 24	3.0% Chrysotile (Point Count) 4.5% Chrysotile (Point Count)
109	1217312	Suspended Ceiling Tile 2' X 2' Type 5 Grey Granular Texture Groove Pattern	Basement Closet Room 24	NAD
110	1217313	Suspended Ceiling Tile 2' X 2' Type 3 Brown Layered Texture Groove Pattern	Basement Closet Room 24	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
111	1217314	Cementitious Fitting on Fiberglass Insulated Piping	Basement Closet Room 24	NAD
112	1222513	Beige 9" Floor Tile Mastic	Kitchenette Room 247	0.50% Chrysotile (Point Count) 10% Chrysotile
113	1222514	Beige 9" Floor Tile	Kitchenette Room 247	0.50% Chrysotile (Point Count)
114	1222515	Beige 9" Floor Tile	Kitchenette Room 247	0.75% Chrysotile (Point Count)
115	1222516	Fibrous Roof Insulation	Room 234	NAD
116	1222517	Fibrous Roof Insulation	Room 234	NAD
117	1222518	Fibrous Roof Insulation	Room 241	NAD
118	1222519	Suspended Ceiling Tile 2' X 2' Type 1 Tan Granular Texture Groove Pattern	Room 240	NAD
119	1222520	Suspended Ceiling Tile 2' X 2' Type 1 Tan Granular Texture Groove Pattern	Room 230	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
120	1222521	Suspended Ceiling Tile 2' X 2' Type 1 Tan Granular Texture Groove Pattern	Room 247	NAD
121	1222522	Suspended Ceiling Tile 2' X 2' Type 2 Light Brown Granular Texture Groove Pattern	Room 240	NAD
122	1222523	Suspended Ceiling Tile 2' X 2' Type 2 Light Brown Granular Texture Groove Pattern	Room 240	NAD
123	1222524	Suspended Ceiling Tile 2' X 2' Type 2 Light Brown Granular Texture Groove Pattern	Room 240	NAD
124	1222525	Suspended Ceiling Tile 2' X 2' Type 3 Brown Layered Texture Groove Pattern	Room 247	NAD
125	1222526	Suspended Ceiling Tile 2' X 2' Type 3 Brown Layered Texture Groove Pattern	Room 233	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
126	1222527	Suspended Ceiling Tile 2' X 2' Type 3 Brown Layered Texture Groove Pattern	Room 233	NAD
127	1222528	Suspended Ceiling Tile 2' X 2' Type 4 Dark Brown Layered Texture Groove Pattern	Room 230	NAD
128	1222529	Suspended Ceiling Tile 2' X 2' Type 4 Dark Brown Layered Texture Groove Pattern	Room 230	NAD
129	1222530	Suspended Ceiling Tile 2' X 2' Type 4 Dark Brown Layered Texture Groove Pattern	Room 230	NAD
130	1222531	Suspended Ceiling Tile 2' X 2' Type 5 Grey Granular Texture Groove Pattern	Room 229	NAD
131	1222532	Suspended Ceiling Tile 2' X 2' Type 5 Grey Granular Texture Groove Pattern	Room 229	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
132	1222533	Suspended Ceiling Tile 2' X 2' Type 6 Brown Fibrous Texture Smooth Face	Second Floor Corridor	NAD
133	1222534	Suspended Ceiling Tile 2' X 2' Type 6 Brown Fibrous Texture Smooth Face	Second Floor Corridor	NAD
134	1222535	Suspended Ceiling Tile 2' X 2' Type 6 Brown Fibrous Texture Smooth Face	Second Floor Corridor	NAD
136	1217294	Window Caulk	Exterior Metal Window	4.25% Chrysotile (Point Count)
137	1217295	Window Caulk	Exterior Metal Window	Not Analyzed*
138	1217296	Window Caulk	Exterior Metal Window	Not Analyzed*
139	1217297	Window Glazing	Exterior Metal Window	4.50% Chrysotile (Point Count)

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
140	1217298	Window Glazing	Exterior Metal Window	Not Analyzed*
141	1217299	Window Glazing	Exterior Metal Window	Not Analyzed*

NOTE: "NAD" INDICATES NO ASBESTOS DETECTED

* EPA protocols consider one positive result as confirmation that a material contains asbestos. If the first sample of a material is found to contain asbestos, no further confirmation is necessary and any additional samples are therefore not analyzed.

3.2 Asbestos Analytical Procedures

Analysis was performed by International Asbestos Testing Laboratories, Inc. (IATL), Mt. Laurel, New Jersey, and Chemscope, Inc., North Haven, Connecticut. Both laboratories are accredited by the National Institute of Standards and Technology accredited laboratory. Analysis was performed using Polarized Light Microscopy (PLM) Method EPA 600. Point counting was used to quantify asbestos content for all samples found to contain less than ten percent asbestos.

3.3 Asbestos Analytical Results

The results of recent bulk sampling performed by DELTA are summarized in Table 3-1. Laboratory data sheets are included in Appendix B.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: light brown 9" floor tile and mastic; gray 9" floor tile and mastic; tan "dot pattern" 9" floor tile (the tile mastic does not contain asbestos); brown 9" floor tile and mastic; white "dot pattern" 9" floor tile and mastic; white with brown specks 9" floor tile and mastic; green 9" floor tile and mastic; beige 9" floor tile and mastic; mastic from beige 12" floor tile (the tile does not contain asbestos); glue material ("glue dots") used to affix bulletin boards to the walls in classroom areas; exterior caulking material on metal windows; and glazing material on metal windows.

The various types of older 9" vinyl floor tile in the building were found to contain between 1.25 and 3.25% chrysotile asbestos. The tile mastic was also found to contain asbestos, with the exception of mastic from the 9" tan "dot pattern" tile, which does not contain asbestos. Mastic from the other types of 9" tile had asbestos contents ranging from 4.5 to 17% chrysotile. The beige 12" tile mastic contains 3.5% chrysotile; the tile itself does not contain asbestos.

Floor tile in the building is generally in fair to good condition, with loose tiles in some areas. Though the tile is unlikely to present a hazard unless it is actively disturbed, any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile (and mastic if applicable) as asbestos.

Glue material ("glue dots") used to affix bulletin boards to the walls in classroom areas was found to contain 1.5% chrysotile asbestos. The glue is hard and is nonfriable. The material is unlikely to release asbestos fibers unless disturbed.

TABLE 3-2: ASBESTOS-CONTAINING MATERIAL
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

HOMOGENEOUS AREA NUMBER	MATERIAL DESCRIPTION	LOCATION	ASBESTOS TYPE AND CONTENT (%)
1	Light Brown 9" Floor Tile	Basement West Corridor, First and Second Floor Corridors, Rooms 4, 5,111-113, 122, 127, 131, 137, 138-142, 145, 151-155, 166, 203, 209, 225	2.5% Chrysotile
2	Mastic From Light Brown 9" Floor Tile	See Above	14% Chrysotile
3	Gray 9" Floor Tile	Rooms 2, 3, 7, 8, 23, 24, 121, 128, 130, 134, 162, 167, 164, 165, 169, 207, 211, 227, 230, 234, 236, 241, 242, 248, 249, 255, 257	1.25% Chrysotile
4	Mastic From Gray 9" Floor Tile	See Above	8.25% Chrysotile
5	Tan 9" Dot Pattern Floor Tile	Rooms 101, 201 (Connecting Passages)	3% Chrysotile
6	Green 9" Floor Tile	Rooms 9, 10, 13, 118, 132, 155	3.25% Chrysotile
7	Mastic From Green 9" Floor Tile	See Above	12% Chrysotile

TABLE 3-2: ASBESTOS-CONTAINING MATERIAL
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

8	Beige 9" Floor Tile	Rooms 119, 123, 124, 233, 237, 251, 254	3.0% Chrysotile
9	Mastic From Beige 9" Floor Tile	See Above	17% Chrysotile
10	White 9" Dot Pattern Floor Tile	Stairwell No. 2	1.5% Chrysotile
11	Mastic From White 9" Dot Pattern Floor Tile	See Above	1.5% Chrysotile
12	Brown 9" Floor Tile	Rooms 17, 18, 21, 22, 231, 233, 234, 239, 240, 244, 246, 247, 252, 254, 255, 258	3.0% Chrysotile
13	Mastic From Brown 9" Floor Tile	See Above	10% Chrysotile
14	White with Brown Specks 9" Floor Tile	Second Floor Corridor Near 207/211, Stairwell No. 1	1.5% Chrysotile
15	Mastic From White with Brown Specks 9" Floor Tile	See Above	10% Chrysotile
16	Mastic From Beige 12" Floor Tile	See Above	3.5% Chrysotile
17	Glue Dot From Corkboard	Classrooms Throughout	1.5% Chrysotile
18	Exterior Window Caulk	Windows Throughout	4.25% Chrysotile
19	Exterior Window Glazing	Windows Throughout	4.5% Chrysotile

NOTE: NAD indicates "No Asbestos Detected"

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL WHIPPLE BUILDING MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
HOMOGENEOUS AREA NUMBER	**MATERIAL DESCRIPTION**	**LOCATION**	**ASBESTOS TYPE AND CONTENT (%)**
20	Mastic From Tan 9" Dot Pattern Floor Tile	See Above	NAD
21	Beige 12" Floor Tile	Room 120	NAD
22	Cementitious Mudded Fittings on Fiberglass Insulated Plumbing	Throughout	NAD
23	Suspended Ceiling Tile 2' X 2' Type 1 Tan Granular Texture Groove Pattern	Rooms 230, 240, 247	NAD
24	Suspended Ceiling Tile 2' X 2' Type 2 Light Brown Granular Texture Groove Pattern	Room 240	NAD
25	Suspended Ceiling Tile 2' X 2' Type 3 Brown Layered Texture Groove Pattern	Throughout much of Building	NAD

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL WHIPPLE BUILDING MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
26	Suspended Ceiling Tile 2' X 2' Type 4 Dark Brown Layered Texture Groove Pattern	Room 230	NAD
27	Suspended Ceiling Tile 2' X 2' Type 5 Grey Granular Texture Groove Pattern	Rooms 24, 229	NAD
28	Suspended Ceiling Tile 2' X 2' Type 6 Brown Fibrous Texture Smooth Face	Second Floor Corridor	NAD
29	Suspended Ceiling Tile 2' X 4'	Rooms 22, 155	NAD
30	Fibrous Roof Insulation	Throughout	NAD
NOTE: NAD indicates "No Asbestos Detected"			

Exterior window glazing and caulking material was found to contain 4.5% and 4.25% chrysotile asbestos, respectively. The material is hard and is nonfriable. The material is unlikely to release asbestos fibers under normal conditions, but would have to be addressed if the windows are replaced.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

Domestic hot and cold water piping throughout the building is insulated with fiberglass. The pipe elbows have cementitious fittings which were found not to contain asbestos.

4.0 DISCUSSION AND RECOMMENDATIONS

The Whipple Building is a two-story (with full basement) 24,500± square foot structure. The building was constructed in 1968. The building consists of: offices, classrooms and storage areas in the basement; classrooms, offices and a cafeteria on the first floor; and dormitory rooms on the second floor. The building is heated by a forced hot air system. The building is served by the boiler room in the basement of the Girls' Building.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: light brown 9" floor tile and mastic; gray 9" floor tile and mastic; tan "dot pattern" 9" floor tile (the tile mastic does not contain asbestos); brown 9" floor tile and mastic; white "dot pattern" 9" floor tile and mastic; white with brown specks 9" floor tile and mastic; green 9" floor tile and mastic; beige 9" floor tile and mastic; mastic from beige 12" floor tile (the tile does not contain asbestos); glue material ("glue dots") used to affix bulletin boards to the walls in classroom areas; exterior caulking material on metal windows; and glazing material on metal windows.

The various types of older 9" vinyl floor tile in the building were found to contain between 1.25 and 3.25% chrysotile asbestos. The tile mastic was also found to contain asbestos, with the exception of mastic from the 9" tan "dot pattern" tile, which does not contain asbestos. Mastic from the other types of 9" tile had asbestos contents ranging from 4.5 to 17% chrysotile. The beige 12" tile mastic contains 3.5% chrysotile; the tile itself does not contain asbestos.

Floor tile in the building is generally in fair to good condition, with loose tiles in some areas. Though the tile is unlikely to present a hazard unless it is actively disturbed, any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile (and mastic if applicable) as asbestos.

Glue material ("glue dots") used to affix bulletin boards to the walls in classroom areas was found to contain 1.5% chrysotile asbestos. The glue is hard and is nonfriable. The material is unlikely to release asbestos fibers unless disturbed.

Exterior window glazing and caulking material was found to contain 4.5% and 4.25% chrysotile asbestos, respectively. The material is hard and is nonfriable. The material is unlikely to release asbestos fibers under normal conditions, but would have to be addressed if the windows are replaced.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

Domestic hot and cold water piping throughout the building is insulated with fiberglass. The pipe elbows have cementitious fittings which were found not to contain asbestos.

5.0 ESTIMATED COST FOR ASBESTOS ABATEMENT

A cost estimate for abatement of all identified asbestos-containing materials in the building is outlined in Table 5-1. The estimated cost for abatement of the building is $127,972. It should be noted that the cost estimate does not include removal of roofing materials or window compound. The cost estimate utilizes standard unit prices for removal of different types of asbestos-containing materials. When an actual asbestos abatement project is planned, a more precise estimate can be developed based on the specific work scope.

TABLE 5-1: ASBESTOS ABATEMENT COST ESTIMATE
WHIPPLE BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT
(TOTAL ABATEMENT OF ASBESTOS-CONTAINING MATERIALS)

Building/Description	Quantity	Unit	Unit Cost	Subtotal Cost	Consultant (20%)	Contingency (10%)	Total Cost
REMOVAL							
Misc. (Glue Dots)	168	SF	$5.00	$840	$168	$84	$1,092
Misc. (VAT/Mastic)	19,520	SF	$5.00	$97,600	$19,520	$9,760	$126,880
REPLACEMENT							
Misc.		SF	N/A				
GRAND TOTAL				$98,440	$19,688	$9,844	$127,972
						ABATEMENT ESTIMATE:	**$127,972**

NOTE: TABLE DOES NOT INCLUDE ABATEMENT OF ANY EXTERIOR ASBESTOS SUCH AS WINDOW CAULK OR ROOFING.

6.0. LIMITATIONS

The survey has the following limitations:

- DELTA's survey included an evaluation for the presence of asbestos-containing insulation on electrical equipment in the building. The inspection included building wiring, whips and fixtures. No suspect insulation was found. The inspection was designed to cover a representative portion of the building, since it was not feasible to examine all fixtures, junction boxes, etc.

- The survey did not utilize "destructive" sampling methods, and therefore may not have identified all of the asbestos-containing materials in the building. Specifically, the inspection did not include areas enclosed by walls or ceilings, unless these spaces could be accessed without damage.

- The survey did not include destructive sampling of furnishings such as chalkboards, corkboards, fire doors and benchtops.

- The survey attempted to access and identify asbestos-containing materials associated with HVAC and mechanical systems. However, such systems were not dismantled during the inspection. It is possible that boilers, furnaces, fan units and other devices may contain gaskets and other interior asbestos material which can only be accessed through dismantling them. Care should be taken to avoid the accidental disturbance of asbestos during maintenance or repair work on such devices.

APPENDIX A

Inventory of Identified Asbestos-Containing Material

WHIPPLE HALL
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
BASEMENT													
WEST CORR.	ALONG ROOMS 2-24	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	450								
WEST CORR.	ALONG ROOMS 2-24	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
2 AND 8	OFFICE	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	330								
3	CLOSET	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	15								
4	CLOSET	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	15								
5	OFFICE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	210								
6	BATHROOM												
7	CLOSET	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	25								
9 AND 13	STORAGE	6, 7	9" GREEN FLOOR TILE/MASTIC	3.25% / 12%	230								
10	OFFICE	6, 7	9" GREEN FLOOR TILE/MASTIC	3.25% / 12%	100								
11	BOYS' BATHROOM												
12	ELEV MACHINE ROOM												
14	CUSTODIAN CLOSET												
15	GIRLS' BATHROOM												
16	ELEVATOR												
17 AND 22	CLASSROOM	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	630								
17 AND 22	CLASSROOM	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
18	OFFICE	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	120								
18	OFFICE	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
19	BATHROOM												
20	BATHROOM												
21	HOUSEKEEPER	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	120								
23	OFFICE	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	150								
23	OFFICE	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
24	CLOSET	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	50								

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ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
FIRST FLOOR													
101	CONNECTING PASSAGE	5	9" TAN DOT PATTERN FLOOR TILE	3%	320								
EAST CORRIDOR	ALONG ROOMS 111-130	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	750								
EAST CORRIDOR	ALONG ROOMS 111-130	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
111	OFFICE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	400								
111	OFFICE	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
112	OFFICE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	400								
112	OFFICE	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
113	STORAGE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	40								
114	BATHROOM												
115	BATHROOM												
116	BATHROOM												
117	BATHROOM												
118	STORAGE	6, 7	9" GREEN FLOOR TILE/MASTIC	3.25% / 12%	150								
119	PLAY ROOM	8, 9	9" BEIGE FLOOR TILE/MASTIC	3.0% / 4.5%	210								
120	CLASSROOM	16	12" BEIGE FLOOR TILE/MASTIC	0% / 3.5%	440								
120	CLASSROOM	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
121	CLASSROOM	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	440								
121	CLASSROOM	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
122	STORAGE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	40								
123-124	CLOSET	8, 9	9" BEIGE FLOOR TILE/MASTIC	3.0% / 4.5%	60								
125	BATHROOM												
126	BATHROOM												
127	STORAGE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	40								
128	CLASSROOM	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	440								
128	CLASSROOM	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
130	LOUNGE	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	440								
130	LOUNGE	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
131	LAMINATING ROOM	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	40								
132	CUSTODIAN STORAGE	6, 7	9" GREEN FLOOR TILE/MASTIC	3.25% / 12%	20								
133	CUSTODIAN												
134	UV DARK ROOM	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	150								CARPET IS PRESENT OVER TILE
135	BATHROOM												
136	BATHROOM												
137	CLASSROOM	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	440								
137	CLASSROOM	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
138	FIRST AID	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	45								
139-140	STORAGE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	60								
141	CLASSROOM	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	440								
141	CLASSROOM	17	GLUE DOTS FROM BULLETIN BOARDS (2)	2%								12	
142	OFFICE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	440								
142	OFFICE	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
143	BATHROOM												
144	BATHROOM												

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ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
145	STORAGE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	40								
UPPER LEVEL													
151	VESTIBULE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	25								
152	ENTRANCE FOYER	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	80								
154	DISHWASHING	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	80								
155	DINING ROOM	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	440								
155	DINING ROOM	6, 7	9" GREEN FLOOR TILE/MASTIC	3.25% / 12%	440								
156	STORAGE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	50								
157	ELEVATOR												
158	STORAGE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	25								
159	CUSTODIAN	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	25								
160	BATHROOM												
161	BATHROOM												
162, 167	OFFICE	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	200								
162, 167	OFFICE	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
CORR. No. 1	CORR. NEAR RM. 154	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	270								
CORR. No. 2	CORR. NEAR RM. 155	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	190								
CORR. No. 2	CORR. NEAR RM. 155	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
CORR. No. 3	CORR. NEAR 157-165	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	175								
163	OFFICE	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	200								
164-165, 169	OFFICE	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	610								
165	OFFICE	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
166	CUSTODIAN	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	20								
168	BATHROOM												

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SECOND FL.													
	CONNECTING PASSAGE	5	9" TAN DOT PATTERN FLOOR TILE/MASTIC	3% / 0%	230								
201/207	WORKSHOP AREA	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	800								
202/213	WORKSHOP AREA	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	800								
203	WORKSHOP AREA	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	1400								
203	WORKSHOP AREA	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
204	CUSTODIAN												
205	BATHROOM												
206, 220-221	BATHROOM												
208	OFFICE	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	400								
209	WORKSHOP AREA	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	1400								
209	WORKSHOP AREA	17	GLUE DOTS FROM BULLETIN BOARD	2%								6	
211	OFFICE	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	400								
CORRIDOR	CORR. NEAR 207/211	14, 15	9" WHITE FLOOR TILE/MASTIC	1.5% / 10%	110								
214, 218-219	BATHROOM												
215	BATHROOM												
216	CUSTODIAN												
UPPER LEVEL													
CORRIDOR	CORR ALONG 225-255	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	450								
225	LOBBY	1, 2	9" LIGHT BROWN FLOOR TILE/MASTIC	2.5% / 10%	200								
227	CLOSET	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	10								
229	CUSTODIAN												
230	BEDROOM	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	180								
231	CLOSET	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	10								
232	BATHROOM												
233	BEDROOM	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	180								
233	KITCHENETTE	8, 9	9" BEIGE FLOOR TILE/MASTIC	3.0% / 4.5%	20								
234	BEDROOM	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	180								
234	KITCHENETTE	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	20								
235	BATHROOM												
236	CLOSET	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	10								
237	KITCHENETTE	8, 9	9" BEIGE FLOOR TILE/MASTIC	3.0% / 4.5%	20								
238	BATHROOM												
239	CLOSET	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	10								
240	BEDROOM	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	180								
241	BEDROOM	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	180								
242	CLOSET	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	10								
243	BATHROOM												
244	KITCHENETTE	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	20								
245	BATHROOM												
246	CLOSET	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	10								
247	BEDROOM	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	180								
248	BEDROOM	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	180								

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249	CLOSET	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	10								
250	BATHROOM												
251	KITCHENETTE	8, 9	9" BEIGE FLOOR TILE/MASTIC	3.0% / 4.5%	20								
252	CLOSET	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	10								
253	BATHROOM												
254	BEDROOM	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	180								
254	KITCHENETTE	8, 9	9" BEIGE FLOOR TILE/MASTIC	3.0% / 4.5%	20								
255	BEDROOM	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	180								
255	KITCHENETTE	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	20								
256	BATHROOM												
257	CLOSET	3, 4	9" GRAY FLOOR TILE/MASTIC	1.25% / 8%	10								
258	KITCHENETTE	12, 13	9" BROWN FLOOR TILE/MASTIC	3% / 10%	20								
MECH. ATTIC	MECH. ATTIC												
STAIRWELLS													
STAIRWELL NO. 1	GROUND FL. LANDING	14, 15	9" WHITE FLOOR TILE/MASTIC	1.5% / 10%	120								SOME LOOSE TILES PRESENT
	FIRST FL. LANDING	14, 15	9" WHITE FLOOR TILE/MASTIC	1.5% / 10%	50								
	SECOND FL. LANDING	14, 15	9" WHITE FLOOR TILE/MASTIC	1.5% / 10%	70								
STAIRWELL NO. 2	GROUND FL. LANDING	10, 11	9" WHITE DOT PATTERN FL. TILE/MASTIC	2.5% / 10%	120								

APPENDIX B

Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-59 Gray fibrous 2x4 suspended ceiling tile () / 44-Kitchen Area Near G15 Above Ceiling	*No Asbestos Detected* *10% Non- Fibrous Particles* *40% Cellulose* *50% Mineral Wool*
142-666-60 Gray fibrous 2x4 suspended ceiling tile () / 45-Kitchen Area Near G15 Above Ceiling	*No Asbestos Detected* *10% Non- Fibrous Particles* *40% Cellulose* *50% Mineral Wool*
142-666-61 Gray fibrous 2x4 suspended ceiling tile () / 46-Kitchen Area Near G15 Above Ceiling	*No Asbestos Detected* *10% Non- Fibrous Particles* *40% Cellulose* *50% Mineral Wool*
142-666-62 White hard plaster layer (on gray granular plaster layer) / 47-Stairwell Landing to Basement Kitchen Area	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-63 Gray granular plaster layer (from under sample #62) / 48-Stairwell Landing to Basement Kitchen Area	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
142-666-64 Light brown hard 9x9 floor tile (on brown and black mastic) / 49-Wipple Corridor #1 Near Dining Room	*Not Analyzed*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-65 Brown and black mastic (from under sample #64) / 50-Wipple Corridor #1 Near Dining Room	*11% Chrysotile Asbestos* *26% Non- Fibrous Particles* *63% Volatile on Ignition*
142-666-66 Hard gray 9x9 floor tile (on black mastic) / 51-Wipple Room 165	*Not Analyzed*
142-666-67 Hard gray 9x9 floor tile (on black mastic) / 52-Wipple Room 165	*Not Analyzed*
142-666-68 Hard gray 9x9 floor tile (on black mastic) / 53-Wipple Room 165	*Not Analyzed*
142-666-69 Black mastic (from under sample #66) / 51-Wipple Room 165	*8% Chrysotile asbestos* *17% Non- Fibrous Particles* *75% Volatile on Ignition*
142-666-70 Black mastic (from under sample #67) / 52-Wipple Room 165	*Not Analyzed*

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Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-71 Black mastic (from under gray 9x9 floor tile) / 54-Wipple Room 165	*Not Analyzed*
142-666-72 White hard plaster layer (on light gray granular plaster layer) / 55-Girl's Building Second Floor Corridor	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-73 Light gray granular plaster layer (from under sample #72) / 56-Girl's Building Second Floor Corridor	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*
142-666-74 White hard plaster layer (on light gray granular plaster layer) / 57-Girl's Building Basement	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-75 Light gray granular plaster layer (from under sample #74) / 58-Girl's Building Basement	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*
142-666-76 White hard plaster layer (on light gray granular plaster layer) / 59-Administration Building Stairs to Basement Near A-B	*No Asbestos Detected* *100% Non- Fibrous Particles*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-101 Light gray granular plaster layer (from under sample #100) / 79-G104	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*
142-666-102 Light gray crumbly pipe fitting (on fiberglass insulation) / 80-Whipple Corridor Above Ceiling Near 156	*No Asbestos Detected* *55% Non- Fibrous Particles* *45% Mineral Wool* *<1% Cellulose*
142-666-103 Light gray crumbly pipe fitting (on fiberglass insulation) / 81-Whipple Corridor Above Ceiling Near 156	*No Asbestos Detected* *55% Non- Fibrous Particles* *45% Mineral Wool* *<1% Cellulose*
142-666-104 Light gray crumbly pipe fitting (on fiberglass insulation) / 82-Whipple Corridor Above Ceiling Near 156	*No Asbestos Detected* *55% Non- Fibrous Particles* *45% Mineral Wool* *<1% Cellulose*
142-666-105 Hard gray 9x9 floor tile with black dot pattern (on black mastic) / 83-Whipple Corridor Connecting Passage	*3% Chrysotile Asbestos* *72% Non- Fibrous Particles* *25% Volatile on Ignition*
142-666-106 Hard gray 9x9 floor tile with black dot pattern (on black mastic) / 84-Whipple Corridor Connecting Passage	*Not Analyzed*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-107 Hard gray 9x9 floor tile with black dot pattern (on black mastic) / 85-Whipple Corridor Connecting Passage	*Not Analyzed*
142-666-108 Black mastic (from under sample #105) / 83-Whipple Corridor Connecting Passage	*No Asbestos Detected* *19% Non- Fibrous Particles* *81% Volatile on Ignition*
142-666-109 Black mastic (from under sample #106) / 84-Whipple Corridor Connecting Passage	*No Asbestos Detected* *28% Non- Fibrous Particles* *72% Volatile on Ignition*
142-666-110 Black mastic (from under sample #107) / 85-Whipple Corridor Connecting Passage	*No Asbestos Detected* *18% Non- Fibrous Particles* *82% Volatile on Ignition*
142-666-111 Light brown hard 9x9 floor tile (on brown and black mastic) / 86-Wipple Corridor Near Exit	*Not Analyzed*
142-666-112 Light brown hard 9x9 floor tile (on brown and black mastic) / 87-Wipple Corridor Near Exit	*Not Analyzed*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-113 Brown and black mastic (from under sample #111) / 86-Wipple Corridor Near Exit	*14% Chrysotile Asbestos* *7% Non- Fibrous Particles* *79% Volatile on Ignition*
142-666-114 Brown and black mastic (from under sample #112) / 87-Wipple Corridor Near Exit	*Not Analyzed*
142-666-115 Hard green 9x9 floor tile (on black mastic) / 88-Wipple Cafeteria	*Not Analyzed*
142-666-116 Hard green 9x9 floor tile (on black mastic) / 89-Wipple Cafeteria	*Not Analyzed*
142-666-117 Hard green 9x9 floor tile (on black mastic) / 90-Wipple Cafeteria	*Not Analyzed*
142-666-118 Black mastic (from under sample #115) / 88-Wipple Cafeteria	*12% Chrysotile Asbestos* *10% Non- Fibrous Particles* *78% Volatile on Ignition*

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Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-119 Black mastic (from under sample #116) / 89-Wipple Cafeteria	*Not Analyzed*
142-666-120 Black mastic (from under sample #117) / 90-Wipple Cafeteria	*Not Analyzed*
142-666-121 Hard beige 9x9 floor tile (on black mastic) / 91-Wipple Cafeteria	*Not Analyzed*
142-666-122 Hard beige 9x9 floor tile (on black mastic) / 92-Wipple Cafeteria	*Not Analyzed*
142-666-123 Hard beige 9x9 floor tile (on black mastic) / 93-Wipple Cafeteria	*Not Analyzed*
142-666-124 Black mastic (from under sample #121) / 91-Wipple Cafeteria	*17% Chrysotile Asbestos* *9% Non- Fibrous Particles* *74% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-125 Black mastic (from under sample #122) / 92-Wipple Cafeteria	*Not Analyzed*
142-666-126 Black mastic (from under sample #123) / 93-Wipple Cafeteria	*Not Analyzed*
142-666-127 Gray fibrous 2x2 suspended ceiling tile () / 94-Wipple Corridor	*No Asbestos Detected* *15% Non- Fibrous Particles* *55% Mineral Wool* *30% Cellulose*
142-666-128 Gray fibrous 2x2 suspended ceiling tile () / 95-Wipple Corridor	*No Asbestos Detected* *15% Non- Fibrous Particles* *55% Mineral Wool* *30% Cellulose*
142-666-129 Gray fibrous 2x2 suspended ceiling tile () / 96-Wipple Corridor	*No Asbestos Detected* *15% Non- Fibrous Particles* *55% Mineral Wool* *30% Cellulose*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings

AIHA Bulk Asbestos Proficiency Analytical Testing (PAT) Program. PAT Proficient Lab #100134
Accreditation by the National Institute of Standards and Technology/National Voluntary Lab Accreditation Program (NVLAP) does not imply endorsement by this Federal Agency.
This report pertains only to the samples tested and may not be reproduced in part.
The scope of Accreditation referenced in this report pertains to bulk asbestos analysis by PLM.
Connecticut Approved Environmental Lab PH 0581
See test parameters on reverse side of this report.

Signature (if applicable)	Signature (if applicable)	*Authorized Signature:*	or	*Authorized Signature:*
Analyst	Inspector	*Ronald D. Arena* *Director*		*Suzanne Cristante* *QA Coordinator*

NVLAP ACCREDITED LAB# 101061-0

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
43	Pipe Insulation							Kitchen Area Near GIF above ceiling				
44	2 x 4 suspended ceiling tile											
45												
46												
47	Wall plaster top coat						No Asbestos	Stairwell landing to basement Kitchen Area				
48	Wall plaster brown coat						No Asbestos					
49	Light Brown 9" Floor Tile						Not Analyzed.	Wheele Corridor No. 1 Near Dining Rm				
50	Mastic from Light brown 9" Floor Tile						1% Chrysotile Asbestos					
51	Gray 9" Floor Tile						Not Analyzed	Room 165 Wheele				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Pokrotski	9-19-00	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
52	Gray 9" Floor Tile							Room 165 Whipple				
53	↓							↓				
54	Mastic From Gray 9" Floor Tile						8% Chrysotile Asbestos	↓				
55	Wall Plaster Top Coat							Girls' Building 2nd Floor Corridor				
56	Wall Plaster Brown Coat							↓				
57	Wall Plaster Top Coat						No Asbestos	Girls' Building Basement				
58	Wall Plaster Brown Coat						No Asbestos	↓				
59	Wall Plaster Top Coat						No Asbestos	Admin. Bldg. Stairs to Basement Near A-B				
60	Wall Plaster Brown Coat						No Asbestos	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patucci	9-19-00	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D 97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
79	Ceiling Plaster Both Layers							G 104				
80	Pipe Fitting on Fiberglass Insulation						No Asbestos Detected.	Whipple Corridor above ceiling near 156				
81	↓							↓				
82	↓							↓				
83	Tan 9" Vor Rubber Floor Tile						3% Chrysotile Asbestos	Whipple Corridor connecting passage				
84	↓							↓				
85	↓							↓				
86	Light Brown 9" Floor Tile							Whipple Corridor near Exit				
87	↓							↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patrick	9-19-00	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D 97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
88	Green 9" Floor Tile							Mystic Cafeteria				
89	↓							↓				
90	↓							↓				
91	Beige 9" Floor Tile							↓				
92	↓							↓				
93	↓							↓				
94	2x2' Suspe. Ceiling Tile							Mystic Corridor				
95	↓							↓				
96	↓							↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Paluch	9-19-00	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEduCtr;WhippleBldg,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248505
Client No.: 55
Material Description: Grey Floor Tile; 9"
Location: Room 201 Connecting Passage

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.50	Chrysotile	None Detected	None Detected	PC 98.50

Lab No. 1248506
Client No.: 56
Material Description: Black Mastic
Location: A/W9" Tile; Room 201 Connecting Passage

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1248507
Client No.: 57
Material Description: Tan Floor Tile; 9"
Location: Room 240

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.0	Chrysotile	None Detected	None Detected	97
No Mastic				

Lab No. 1248508
Client No.: 58
Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEduCtr;WhippleBldg,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248509
Client No.: 59
Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1248510
Client No.: 60
Material Description: White Floor Tile; 9"
Location: Ground Floor Landing Stairwell 2

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.50	Chrysotile	None Detected	None Detected	PC 97.50
No Mastic				

Lab No. 1248511
Client No.: 61
Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1248512
Client No.: 62
Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Approved By: _____
Frank E. Ehrenfeld, III
Laboratory Director

Date: _____

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16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEduCtr;WhippleBldg,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248513
Client No.: 63
Material Description: White Floor Tile; 9"
Location: 2nd Floor Landing Stairwell 1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.50	Chrysotile	None Detected	None Detected	PC 98.50
No Mastic				

Lab No. 1248514
Client No.: 64
Material Description: Black Mastic
Location: 2nd Floor Landing A/W9"Tile;Stairwell1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	None Detected	None Detected	90

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

Date: _____

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405
(203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Whipple Building Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TASER NUMBER AND CHECK 1	2	3	4
55	9" Tan Dot Pattern Floor Tile					1248505		Room 201 Connecting Passage				
56	Mastic From Above					1248506		↓				
57	9" Brown Floor Tile					1248507	positive stop	Room 240				
58	9" Brown Floor Tile					1248508	↓	Room 238				
59	9" Brown Floor Tile					1248509		Room 233				
60	9" White Dot Pattern Floor Tile					1248510	positive stop	Ground Floor Landing - Stairwell 2				
61	↓					1248511	↓	↓				
62	↓					1248512		Second Floor Landing Stairwell 1				
63	9" White Floor Tile with Brown Specks					1248513						

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melatto	Delta	3/26/01	2:00 pm	1	1-9	James R Melatto			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

DELTA Environmental Services,® Inc.

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(203) 481-7668

APR. 2.2001 12:24PM NO. 287 P. 21/21

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Whipple Building Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well; O = Outfall; WO = Waste Oil; RO = Run Off; B = Bottom Sediment; SW = Sewage; SG = Sludge; S = Soil; R = River/Stream; LF = Landfill; WW = Wastewater; L = Lake/Ocean; X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
64	9" white Floor Tile Mastic				1248514			Second Floor landing stairwell 1				

Container Codes: P = Plastic; E = EPA VIAL; G = Glass; A = Amber Glass; B = Bacteria Bottle
Preservative Codes: I = Iced; F = Filtered; N = Nitric Acid (HNO_3); H = Hydrochloric Acid (HCl); S= Sodium Hydroxide (NaOH); T = Sodium Thiosulfate; F = Sulfuric Acid; O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James A Melnitz	Delta	3/26/01	2:00 pm	1	10	James A Melnitz			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217300 **Material Description:** Grey Floor Tile
Client No.: 97 **Location:** Black Mastic Room 23

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.25	Chrysotile	None Detected	None Detected	PC 98.75

Lab No. 1217300 **Material Description:** Grey Floor Tile
Client No.: 97 **Location:** Black Mastic Room 23

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 8.25	Chrysotile	None Detected	None Detected	PC 91.75
Black Mastic				
From Above				

Lab No. 1217301 **Material Description:** White Floor Tile
Client No.: 98 **Location:** Black Mastic Room 120

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1217301 **Material Description:** White Floor Tile
Client No.: 98 **Location:** Black Mastic Room 120

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.50	Chrysotile	None Detected	None Detected	PC 96.5
Black Mastic				
From Above				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: Thom Snyder

Date: JAN 2 7 2001

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217302 **Material Description:** White Floor Tile
Client No.: 99 **Location:** Room 120

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Mastic Not Analyzed

Lab No. 1217303 **Material Description:** White Floor Tile
Client No.: 100 **Location:** Room 120

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Mastic Not Analyzed

Lab No. 1217304 **Material Description:** Brown Mastic
Client No.: 101 **Location:** Room 120

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.50	Chrysotile	None Detected	None Detected	PC 98.50

Lab No. 1217305 **Material Description:** Sample Not Analyzed
Client No.: 102 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: [illegible]

Date:

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217306 **Material Description:** Sample Not Analyzed
Client No.: 103 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1217307 **Material Description:** Grey Floor Tile
Client No.: 104 **Location:** Black Mastic CorridorNearRoom154

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.75	Chrysotile	None Detected	None Detected	PC 98.25

Lab No. 1217307 **Material Description:** Grey Floor Tile
Client No.: 104 **Location:** Black Mastic CorridorNearRoom154

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	None Detected	None Detected	90
Black Mastic				
From Above				

Lab No. 1217308 **Mnterial Description:** Green Floor Tile
Client No.: 105 **Location:** Black Mastic Dining Room 155

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.25	Chrysotile	None Detected	None Detected	PC 96.75

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: [illegible]

Date: [illegible]

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217308 **Material Description:** Green Floor Tile
Client No.: 105 **Location:** Black Mastic Dining Room 155

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	None Detected	None Detected	90
Black Mastic				
From Above				

Lab No. 1217309 **Material Description:** Tan/WhiteCeilingTile
Client No.: 106 **Location:** Dining Room 155

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	50	Mineral Wool	15
		35	Cellulose	

Lab No. 1217310 **Material Description:** Tan Floor Tile
Client No.: 107 **Location:** Tan Mastic CorridorNearRoom22

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.5	Chrysotile	None Detected	None Detected	PC 97.5

Lab No. 1217310 **Material Description:** Tan Floor Tile
Client No.: 107 **Location:** Tan Mastic CorridorNearRoom22

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Tan Mastic				
From Above				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: _____

Date: _____

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217311 **Material Description:** Green Floor Tile
Client No.: 108 **Location:** Yellow/Black Mixed Mastic; Room24

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.0	Chrysotile	None Detected	None Detected	97

Lab No. 1217311 **Material Description:** Green Floor Tile
Client No.: 108 **Location:** Yellow/Black Mixed Mastic; Room24

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 4.5	Chrysotile	None Detected	None Detected	PC 95.5
Yellow/Black Mixed Mastic; From Above				

Lab No. 1217312 **Material Description:** Grey/White
Client No.: 109 **Location:** Ceiling Tile SalientArea;Room24

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	80	Mineral Wool	20

Lab No. 1217313 **Material Description:** Tan/WhiteCeilingTile
Client No.: 110 **Location:** Room 24

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	25
		35	Mineral Wool	

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217314
Client No.: 111

Material Description: Grey Insulation
Location: Room 24

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	25	Mineral Wool	75

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

Date: _____

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Whipple Bldg.

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
97	Gray 9" Floor Tile				121	7300	Asbestos PLM EPA 600	Room 23				
98	Beige 12" Floor Tile				121	7301	Positive stop	Room 120				
99	↓				121	7302	↓	↓				
100	↓				121	7303	↓	↓				
101	Glue Dot From Cardboard				121	7304	Positive stop	↓				
102	↓				121	7305	↓	↓				
103	↓				121	7306	↓	↓				
104	Light Brown 9" Floor Tile				121	7307		Corridor Near Room 154				
105	Green 9" Floor Tile				121	7308		Dining Room 155				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
				2					
				3	Analyzed	[signature] 1/31/00			
				4					

ADDITIONAL COMMENTS:

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Whipple Bldg

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
106	2x4 Suspended Ceiling Tile				12	17309	Asbestos PLM EPA 600	Dining Room 155				
107	9" Light Brown Floor Tile				12	17310		Corridor Near Room 22				
108	9" Beige Floor Tile				12	17311		Closet Room 24				
109	2x4 Suspended Ceiling Tile Gray Body				12	17312		Salient Area Room 24				
110	2x4 Suspended Ceiling Tile Brown Body				12	17313		Room 24				
111	Pipe Fitting on Fiberglass Insul.				12	17314		↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
ADDITIONAL COMMENTS:				2					
				3					
				4					

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/20/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222513 **Material Description:** Lt.Brown Floor Tile
Client No.: 112 **Location:** Black Mastic Room247; Kitchenette

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.50	Chrysotile	None Detected	None Detected	PC 99.5

Lab No. 1222513 **Material Description:** Lt.Brown Floor Tile
Client No.: 112 **Location:** Black Mastic Room247; Kitchenette

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	None Detected	None Detected	90

Black Mastic
From Above

Lab No. 1222514 **Material Description:** Lt.Brown Floor Tile
Client No.: 113 **Location:** Room247; Kitchenette 9"

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.50	Chrysotile	None Detected	None Detected	PC 99.5

Mastic Not Analyzed

Lab No. 1222515 **Material Description:** Lt.Brown Floor Tile
Client No.: 114 **Location:** Room247; Kitchenette 9"

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.75	Chrysotile	None Detected	None Detected	PC 99.25

Mastic Not Analyzed

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: Vane G. Smith, III
Vane G. Smith, III, AIHA-AAR 4719

Date:

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

* **Lab No.** 1222516 **Material Description:** White Non Fibrous
Client No.: 115 **Location:** Room 234

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

* **Lab No.** 1222517 **Material Description:** White Non Fibrous
Client No.: 116 **Location:** Room 234

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

* **Lab No.** 1222518 **Material Description:** White Non Fibrous
Client No.: 117 **Location:** Room 241

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1222519 **Material Description:** Grey Ceiling Tile
Client No.: 118 **Location:** Room 240 2x2; Type 1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	55	Cellulose	35
		10	Fibrous Glass	

* Different material than indicated on Sample Log/Description.

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: Vane G. Smith, III, AIHA-AAR 4719

Date:

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222520 **Material Description:** Grey Ceiling Tile
Client No.: 119 **Location:** Room 230 2x2; Type 1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Cellulose	35
		20	Fibrous Glass	

Lab No. 1222521 **Material Description:** Grey Ceiling Tile
Client No.: 120 **Location:** Room 247 2x2; Type 1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	55	Cellulose	35
		10	Fibrous Glass	

Lab No. 1222522 **Material Description:** Grey Ceiling Tile
Client No.: 121 **Location:** Room 240 2x2; Type 2

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	35	Cellulose	40
		25	Fibrous Glass	

Lab No. 1222523 **Material Description:** Grey Ceiling Tile
Client No.: 122 **Location:** Room 240 2x2; Type 2

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	35	Cellulose	40
		25	Fibrous Glass	

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith, III
Vane G. Smith, III, AIHA-AAR 4719

Date:

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222524 **Material Description:** Grey Ceiling Tile
Client No.: 123 **Location:** Room 240 2x2; Type 2

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	35	Cellulose	40
		25	Fibrous Glass	

Lab No. 1222525 **Material Description:** Brown Ceiling Tile
Client No.: 124 **Location:** Room 247 2x2; Type 3

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	20
		50	Fibrous Glass	

Lab No. 1222526 **Material Description:** Brown Ceiling Tile
Client No.: 125 **Location:** Room 233 2x2; Type 3

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	20
		50	Fibrous Glass	

Lab No. 1222527 **Material Description:** Brown Ceiling Tile
Client No.: 126 **Location:** Room 233 2x2; Type 3

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	20
		50	Fibrous Glass	

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith, III
Vane G. Smith, III, AIHA-AAR 4719

Date:

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222528 **Material Description:** Lt.Brown CeilingTile
Client No.: 127 **Location:** Room 230 2x2; Type 4

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	25	Cellulose	20
		55	Fibrous Glass	

Lab No. 1222529 **Material Description:** Lt.Brown CeilingTile
Client No.: 128 **Location:** Room 230 2x2; Type 4

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	25	Cellulose	20
		55	Fibrous Glass	

Lab No. 1222530 **Material Description:** Lt.Brown CeilingTile
Client No.: 129 **Location:** Room 230 2x2; Type 4

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	25	Cellulose	20
		55	Fibrous Glass	

Lab No. 1222531 **Material Description:** Dk.Grey Ceiling Tile
Client No.: 130 **Location:** Room 229 2x2; Type 5

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	55	Fibrous Glass	45

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith, III
Vane G. Smith, III, AIHA-AAR 4719

Date:

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Whipple Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222532 **Material Description:** Dk.Grey Ceiling Tile
Client No.: 131 **Location:** Room 229 2x2; Type 5

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	55	Fibrous Glass	45

Lab No. 1222533 **Material Description:** Tan Ceiling Tile
Client No.: 132 **Location:** SecondFloor;Corridor 2x2; Type 6

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	75	Cellulose	25

Lab No. 1222534 **Material Description:** Tan Ceiling Tile
Client No.: 133 **Location:** SecondFloor;Corridor 2x2; Type 6

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	75	Cellulose	25

Lab No. 1222535 **Material Description:** Tan Ceiling Tile
Client No.: 134 **Location:** SecondFloor;Corridor 2x2; Type 6

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	75	Cellulose	25

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith, III
Vane G. Smith, III, AIHA-AAR 4719

Date: FEB

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

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Telephone: 609.231.9449 Fax: 609.231.9818

972/9

- Chain of Custody -

Client: Delta Environmental Services
P.O. Box 564
Branford, CT 06405

Project Name: Mystic Education Center
Project No.: Mystic, CT
D97-148-24

Phone: (203) 481-7668
FAX: (203) 488-8164

Contact: Jim McCarthy
Pager:

Special Instructions:

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[✓] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400
[ ] PCM : OSHA
[ ] PCM : Other_____

[ ] AAS : NIOSH 7082 (Air)
[ ] AAS : Lead in Drinking Water
[ ] AAS : Lead in Paint ASTM D3335-85a
[ ] AAS : Lead Dust/Wipe
[ ] AAS : Other Metals / Soil_____

[✓] PLM : Bulk Asbestos EPA 600
[ ] PLM : Point Counting 198.1
[ ] PLM : NOB via 198.1 (PLM only)
[ ] If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements **
(**call to confirm TAT!)

[ ] TEM : AHERA
[ ] TEM : NIOSH 7402
[ ] TEM : EPA Level II
[ ] TEM : Microvac Dust
[ ] TEM : Asbestos in Water
[ ] TEM : Bulk Analysis
[ ] TEM : NOB 198.4
[ ] TEM : Other_____
[ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ date / time Verbals: _____ date / time

[ ] 10 Day [ ] 5 Day [✓] 72 hour [✓] 48 hour [ ] 24 hour [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): _____ (start) - _____ (end) IATL#(s): _____ (start) - _____ (end) Total: ___

Chain of Custody:

Relinquished:	June N McCarthy	Date: 2/6/01	Time: 5:00 pm
Received:		Date:	Time:
Sample Log-in:	CS 2/8 2000	Date:	Time:
Sample Prep:		FEB Date: 8 2001	Time:
Analyzed:	WS 2/9/01	Date:	Time:
QA/QC Review:	[illegible]	Date: 02/19/01	Time:

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Whipple Bldg.

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
112	9" beige Floor Tile						Asbestos PLM EPA 600 1222513 positive stop	Room 247 Kitchenette				
113	↓						1222514	↓				
114	↓						1222515	↓				
115	Fibrous Roof Insulation						1222516 positive stop	Room 234				
116	↓						1222517	↓				
117	↓						1222518	Room 241				
118	2x2 Ceiling Tile - Type 1						1222519 positive stop	Room 240				
119	↓						1222520	Room 230				
120	↓						1222521	Room 247				

Container Codes: P = Plastic E = EPA VIAL G = Glass A = Amber Glass B = Bacteria Bottle
Preservative Codes: I = Iced F = Filtered N = Nitric Acid (HNO_3) H = Hydrochloric Acid (HCl) S= Sodium Hydroxide (NaOH) T = Sodium Thiosulfate F = Sulfuric Acid
O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melatti	Delta			1		James R Melatti			
ADDITIONAL COMMENTS:				2					
				3					
				4					

- DRAFT -

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
CROUTER BUILDING (DPW Building No. 16948)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: March 2001

DELTA
ENVIRONMENTAL
SERVICES®, INC.

81 Schoolground Road
P.O. Box 564, Branford, CT
(203) 481-7668

- DRAFT -

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
CROUTER BUILDING (DPW Building No. 16948)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: March 2001

DELTA ENVIRONMENTAL SERVICES®, INC.
81 Schoolground Road
P.O. Box 564, Branford, CT
(203) 481-7668

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3.2	Asbestos Analytical Procedures	2
3.3	Asbestos Analytical Results	2
4.0	Discussion and Recommendations	3
5.0	Estimated Cost For Asbestos Abatement	4
6.0	Limitations	4

TABLES

3-1 Bulk Sample Summary for Suspect Asbestos-Containing Materials

3-2 Asbestos-Containing Material

3-3 Non-Asbestos-Containing Material

5-1 Asbestos Abatement Cost Estimate

APPENDICES

APPENDIX A - Inventory of Identified Asbestos-Containing Material

APPENDIX B - Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

APPENDIX C - Laboratory and Inspector Accreditations

APPENDIX D - Building Diagrams

1.0 INTRODUCTION

This report summarizes the results of an asbestos inspection conducted by DELTA Environmental Services, Inc. (DELTA) for the Crouter Building (DPW Building Number 16948) at the Mystic Education Center facility at 290 Oral School Road in Mystic, Connecticut. The project consisted of: review of available building records; physical inspection of the building to determine the quantities and locations of asbestos-containing materials (ACM); and bulk sampling of suspected asbestos-containing materials (ACM).

2.0 BUILDING DESCRIPTION

Mystic Education Center is a seven-building campus-type facility. The property consists of approximately 122 acres and 250,000 square feet of building floor space. The Crouter Building is a one-story masonry structure. The building covers approximately 7,500 square feet and was constructed in the 1950's. The building is currently vacant and previously housed the facility's vocational and physical education programs. The building consists of: a former machine shop, woodworking area, paint shop, classrooms, a gymnasium and storage and mechanical rooms. Room numbers referred to in this report correspond to the building diagrams in Appendix D.

The Crouter building is heated via a hot water radiant system. Heat is provided by the main boiler room in the Administration Building. The main steam supply from the Administration Building enters the Crouter Building via a sub-grade mechanical pit at the east side, which was not accessible for inspection.

3.0 ASBESTOS SURVEY

3.1 Asbestos Sampling Procedures

Bulk samples of suspected ACM were collected by James P. McCarthy, P.E., of DELTA, a Connecticut Department of Public Health licensed inspector. Samples were collected using a clean knife or other appropriate tool after first wetting the material to be sampled to limit fiber release.

Samples were placed in dedicated sealable plastic bags and promptly transmitted to the analytical laboratory using strict chain of custody procedures. Sampling was performed in accordance with Environmental Protection Agency protocols, which require a minimum of three negative results in order to establish that a material does not contain asbestos.

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
CROUTER BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
1	1195603	Blue-Gray 9" Floor Tile Mastic From Above	Main Corridor	5.3% Chrysotile (Point Count) 10% Chrysotile
2	1195604	Blue-Gray 9" Floor Tile	Main Corridor	Not Analyzed
3	1195605	Blue-Gray 9" Floor Tile	Main Corridor	Not Analyzed
4	1195606	Light Brown 9" Floor Tile Mastic From Above	Main Corridor	5.8% Chrysotile (Point Count) NAD
5	1195607	Light Brown 9" Floor Tile Mastic From Above	Main Corridor	Not Analyzed NAD
6	1195608	Light Brown 9" Floor Tile Mastic From Above	Main Corridor	Not Analyzed NAD
7	1195609	Dark Brown/Red 9" Floor Tile Mastic From Above	Room B-12 Supply Room No. 2	8.5% Chrysotile (Point Count) NAD
8	1195610	Dark Brown/Red 9" Floor Tile Mastic From Above	Room B-12 Supply Room No. 2	Not Analyzed NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
CROUTER BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
9	1195611	Dark Brown/Red 9" Floor Tile Mastic From Above	Room B-12 Supply Room No. 2	Not Analyzed NAD
10	1195612	Blue-Gray 9" Floor Tile Mastic From Above	Room B-9 Gym Equipment	3.8% Chrysotile (Point Count) 10% Chrysotile
11	1195613	Green 9" Floor Tile Mastic From Above	Room B-7 Paint Shop	4.5% Chrysotile (Point Count) NAD
12	1195614	Green 9" Floor Tile Mastic From Above	Room B-7 Paint Shop	Not Analyzed NAD
13	1195615	Green 9" Floor Tile Mastic From Above	Room B-7 Paint Shop	Not Analyzed NAD
14	1195616	Red 9" Floor Tile Mastic From Above	Room B-13 Paint Spray Booth	3.8% Chrysotile (Point Count) NAD
15	1195617	Red 9" Floor Tile Mastic From Above	Room B-13 Paint Spray Booth	Not Analyzed NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
CROUTER BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
16	1195618	Red 9" Floor Tile Mastic From Above	Room B-13 Paint Spray Booth	Not Analyzed NAD
17	1195619	Pipe Fitting on Fiberglass-Insulated Water Pipe	Room B-6 Machine Shop Along Ceiling	5.8% Chrysotile (Point Count)
18	1195620	Pipe Fitting on Fiberglass-Insulated Water Pipe	Room B-6 Machine Shop Along Ceiling	Not Analyzed
19	1217281	Facing on 2' X 4' Fiberglass Ceiling Tile	Corridor Near Paint Shop	NAD
20	1217282	Facing on 2' X 4' Fiberglass Ceiling Tile	Corridor Near Room B-10	NAD
21	1217283	Facing on 2' X 4' Fiberglass Ceiling Tile	Room B-10	NAD
22	1217284	Ceiling Insulation	Room B-5	NAD
23	1217285	Ceiling Insulation	Room B-5	NAD
24	1217286	Ceiling Insulation	Room B-5	NAD
25	1217287	Door Frame Caulk	Exterior Northeast Corner of Gym	Trace Chrysotile (Point Count)

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
CROUTER BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
26	1217288	Window Caulk	Outside Room B-5 Southeast Corner	5.5% Chrysotile (Point Count)
27	1217289	Window Caulk	Outside Room B-5 Southeast Corner	Not Analyzed
28	1217290	Window Caulk	Outside Room B-5 Southeast Corner	Not Analyzed
29	1217291	Door Frame Caulk	SW Corner of Building Vestibule Near Room B-1	5.0% Chrysotile (Point Count)
30	1217292	Door Frame Caulk	SW Corner of Building Vestibule Near Room B-1	Not Analyzed
31	1217293	Door Frame Caulk	SW Corner of Building Vestibule Near Room B-1	Not Analyzed

NOTE: "NAD" INDICATES NO ASBESTOS DETECTED

3.2 Asbestos Analytical Procedures

Analysis was performed by International Asbestos Testing Laboratories, Inc. (IATL), Mt. Laurel, New Jersey, a National Institute of Standards and Technology accredited laboratory. Analysis was performed using Polarized Light Microscopy (PLM) Method EPA 600. Point counting was used to quantify asbestos content for all samples found to contain less than ten percent asbestos.

3.3 Asbestos Analytical Results

The results of recent bulk sampling performed by DELTA are summarized in Table 3-1. Laboratory data sheets are included in Appendix B.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: blue-gray 9" floor tile and mastic; light brown 9" floor tile; dark brown/red 9" floor tile; green 9" floor tile; bright red 9" floor tile; cementitious mudded fitting insulation on fiberglass insulated piping; asbestos-containing "aircell" type pipe insulation in custodian closet B-14; exterior door frame caulk; and exterior window frame caulk.

The various types of vinyl floor tile in the building were found to contain between 3.8 and 8.5% chrysotile asbestos. The tile mastic was found not to contain asbestos, with the exception of the blue-gray tile. Mastic from the blue-gray tile contains 10% chrysotile. Floor tile is generally in poor to fair condition, with loose tiles in several spots. Though the tile is unlikely to present a hazard unless it is actively disturbed, any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile (and mastic if applicable) as asbestos.

Domestic hot and cold water piping throughout the building is insulated with fiberglass. The pipe elbows have cementitious fittings which were found to contain 5.8% chrysotile asbestos (additional asbestos fittings are present on roof drain lines in the gymnasium). The majority of the fittings are concealed in pipe chases or above drop ceilings. The fittings are generally in good condition.

Approximately one linear foot of asbestos-containing aircell pipe insulation was noted in custodian closet B-14 in the building. The insulation is present at the wall penetration to the corridor. The pipe insulation throughout the rest of the building is fiberglass (with asbestos-containing fittings as discussed previously).

TABLE 3-2: ASBESTOS-CONTAINING MATERIAL
CROUTER BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

HOMOGENEOUS AREA NUMBER	MATERIAL DESCRIPTION	LOCATION	ASBESTOS TYPE AND CONTENT (%)
1	Blue-Gray 9" Floor Tile	North Side of Main Corridor, East Corridor Near Paint Room, Room B-9, Room B-10	3.8 - 5.3% chrysotile
2	Mastic From Blue-Gray 9" Floor Tile	North Side of Main Corridor, East Corridor Near Paint Room, Room B-9, Room B-10	10% chrysotile
3	Light Brown 9" Floor Tile	South Side of Main Corridor	5.8% chrysotile
4	Dark Brown/Red 9" Floor Tile	Storage Rooms B-11 and B-12	8.5% chrysotile
5	Green 9" Floor Tile	Paint Room B-7 and Room B-4	4.5% chrysotile
6	Bright Red 9" Floor Tile	Paint Booth B-13	3.8% chrysotile
7	Cementitious Mudded Fittings on Fiberglass Insulated Plumbing	Throughout	5.8% chrysotile
8	Door Frame Caulk	Exterior Doors	5.0% chrysotile
9	Window Caulk	Exterior Windows	5.5% chrysotile

NOTE: NAD indicates "No Asbestos Detected"

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL CROUTER BUILDING MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
HOMOGENEOUS AREA NUMBER	**MATERIAL DESCRIPTION**	**LOCATION**	**ASBESTOS TYPE AND CONTENT (%)**
10	Mastic From Light Brown 9" Floor Tile	South Side of Main Corridor	NAD
11	Mastic From Dark Brown/Red 9" Floor Tile	Storage Rooms B-11 and B-12	NAD
12	Mastic From Green 9" Floor Tile	Paint Room B-7 and Room B-4	NAD
13	Mastic From Bright Red 9" Floor Tile	Paint Booth B-13	NAD
14	Suspended Ceiling Tile - 2' X 4' with Fiberglass Backing	Corridors	NAD
15	Cellulose-Based Ceiling Insulation	Throughout	NAD
NOTE: NAD indicates "No Asbestos Detected"			

Exterior window and door caulking material was found to contain 5.5% and 5% chrysotile asbestos, respectively. The material is hard and is nonfriable. The caulking is unlikely to release asbestos fibers under normal conditions, but would have to be addressed if the windows/doors are replaced.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

4.0. DISCUSSION AND RECOMMENDATIONS

The Crouter Building is a one-story masonry structure. The building covers approximately 7,500 square feet and was constructed in the 1950's. The building is currently vacant and previously housed the facility's vocational and physical education programs. The building consists of: a former machine shop, woodworking area, paint shop, classrooms, a gymnasium and storage and mechanical rooms.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: blue-gray 9" floor tile and mastic; light brown 9" floor tile; dark brown/red 9" floor tile; green 9" floor tile; bright red 9" floor tile; cementitious mudded fitting insulation on fiberglass insulated piping; asbestos-containing "aircell" type pipe insulation in custodian closet B-14; exterior door frame caulk; and exterior window frame caulk.

The various types of vinyl floor tile in the building were found to contain between 3.8 and 8.5% chrysotile asbestos. The tile mastic was found not to contain asbestos, with the exception of the blue-gray tile. Mastic from the blue-gray tile contains 10% chrysotile. Floor tile is generally in poor to fair condition, with loose tiles in several spots. Though the tile is unlikely to present a hazard unless it is actively disturbed, any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile (and mastic if applicable) as asbestos.

Domestic hot and cold water piping throughout the building is insulated with fiberglass. The pipe elbows have cementitious fittings which were found to contain 5.8% chrysotile asbestos. The majority of the fittings are concealed in pipe chases or above drop ceilings and are in good condition.

Approximately one linear foot of asbestos-containing aircell pipe insulation was noted in custodian closet B-14 in the building. The insulation is present at the wall penetration to the corridor. The pipe insulation throughout the rest of the building is fiberglass (with asbestos-containing fittings as discussed previously).

Exterior window and door caulking material was found to contain 5.5% and 5% chrysotile asbestos, respectively. The material is hard and is nonfriable. The caulking is unlikely to release asbestos fibers under normal conditions, but would have to be addressed if the windows/doors are replaced.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

5.0 ESTIMATED COST FOR ASBESTOS ABATEMENT

A cost estimate for abatement of all identified asbestos-containing materials in the building is outlined in Table 5-1. The estimated cost for abatement of the building (including thermal systems reinsulation) is $9,555. It should be noted that the cost estimate does not include removal of roofing materials. The cost estimate utilizes standard unit prices for removal of different types of asbestos-containing materials. When an actual asbestos abatement project is planned, a more precise estimate can be developed based on the specific work scope.

6.0. LIMITATIONS

The survey has the following limitations:

- DELTA's survey included an evaluation for the presence of asbestos-containing insulation on electrical equipment in the building. The inspection included building wiring, whips and fixtures. No suspect insulation was found. The inspection was designed to cover a representative portion of the building, since it was not feasible to examine all fixtures, junction boxes, etc.

- The survey did not utilize "destructive" sampling methods, and therefore may not have identified all of the asbestos-containing materials in the building. Specifically, the inspection did not include areas enclosed by walls or ceilings, unless these spaces could be accessed without damage.

TABLE 5-1: ASBESTOS ABATEMENT COST ESTIMATE
CROUTER BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT
(TOTAL ABATEMENT OF ASBESTOS-CONTAINING MATERIALS)

Building/Description	Quantity	Unit	Unit Cost	Subtotal Cost	Consultant (20%)	Contingency (10%)	Total Cost
REMOVAL							
Thermal Systems Insulation	165	SF	$10.00	$1,650	$330	$165	$2,145
Misc. Material (VAT/Mastic)	810	SF	$5.00	$4,050	$810	$405	$5,265
REPLACEMENT							
Thermal Systems Insulation	165	SF	$10.00	$1,650	$330	$165	$2,145
Misc. (VAT/Mastic)	N/A	N/A	N/A				
GRAND TOTAL				$7,350	$1,470	$735	$9,555
						ABATEMENT ESTIMATE:	**$9,555**

NOTE: TABLE DOES NOT INCLUDE ABATEMENT OF ANY EXTERIOR ASBESTOS SUCH AS WINDOW CAULK OR ROOFING.

- The survey did not include destructive sampling of furnishings such as chalkboards, corkboards, fire doors and benchtops.

- The survey attempted to access and identify asbestos-containing materials associated with HVAC and mechanical systems. However, such systems were not dismantled during the inspection. It is possible that boilers, furnaces, fan units and other devices may contain gaskets and other interior asbestos material which can only be accessed through dismantling them. Care should be taken to avoid the accidental disturbance of asbestos during maintenance or repair work on such devices.

APPENDIX A

Inventory of Identified Asbestos-Containing Material

CROUTER BUILDING
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
	STEAM PIT												ASSUMED ACM INSUL.
B-1													
B-2													
B-3													
B-4	OFFICE	5	9" GREEN FLOOR TILE	5%	130								
B-5	WOODWORKING	7	FITTINGS WITH FBGL INSULATION	6%					2				
B-5	WOODWORKING	7	FITTINGS WITH FBGL INSULATION	10%	10								TILE WAS APPARENTLY ABATED
B-6	MACHINE ROOM	7	FITTINGS WITH FBGL INSULATION	6%					4				
B-6	MACHINE ROOM	2	RESIDUAL FLOOR TILE MASTIC	10%	10								TILE WAS APPARENTLY ABATED
B-7	PAINT ROOM	5	9" GREEN FLOOR TILE	5%	20								
B-8	GYMNASIUM								2				LARGE FITTINGS ON ROOF DRAINS
B-9	GYM EQUIPMENT	1, 2	9" BLUE-GRAY FLOOR TILE/MASTIC	5.3% / 10%	70								
B-9	GYM EQUIPMENT	7	FITTINGS WITH FBGL INSULATION	6%					20				
BOYS' LOCKER	LOCKER ROOM	7	FITTINGS WITH FBGL INSULATION	6%					40				FITTINGS ABOVE SUSP. CEILING
	PIPE CHASE	7	FITTINGS WITH FBGL INSULATION	6%					15				
GIRLS' LOCKER	LOCKER ROOM	7	FITTINGS WITH FBGL INSULATION	6%					40				FITTINGS ABOVE SUSP. CEILING
	PIPE CHASE	7	FITTINGS WITH FBGL INSULATION	6%					15				
B-10	OFFICE	1, 2	9" BLUE-GRAY FLOOR TILE/MASTIC	5.3% / 10%					4				FITTINGS ABOVE SUSP. CEILING
B-10	OFFICE BATHROOM								5				FITTINGS ABOVE SUSP. CEILING
B-11	STORAGE CLOSET	4	9" DARK RED FLOOR TILE	9%									
B-12	STORAGE CLOSET	4	9" DARK RED FLOOR TILE	9%					5				STORED BOXES OF ASB. FL. TILE
B-13	PAINT BOOTH	6	9" RED FLOOR TILE	4%					3				
B-14	CUSTODIAN CLOSET		PIPE INSULATION	ASSUMED				1					SCRAP OF ASB. INSUL.
MAIN CORR	NORTH SIDE	1, 2	9" BLUE-GRAY FLOOR TILE/MASTIC	5.3% / 10%	150								
MAIN CORR	SOUTH SIDE	3	9" LIGHT BROWN FLOOR TILE	6%	430								
NO. CORR.	BETW. GYM AND B-7	7	FITTINGS WITH FBGL INSULATION	6%					4				FITTINGS ABOVE SUSP. CEILING
NO. CORR.	BETW. GYM AND B-7	1, 2	9" BLUE-GRAY FLOOR TILE/MASTIC	5.3% / 10%	120								
SO. CORR.	BETW. GYM AND B-10	7	FITTINGS WITH FBGL INSULATION	6%					5				FITTINGS ABOVE SUSP. CEILING

APPENDIX B

Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/20/2000
Project: Mystic Education Center, 12-12-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1195603 **Material Description:** Dk.Blue/Lt.Yellow
Client No.: 1C **Location:** Floor Tile Black Mastic

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 5.3	Chrysotile	None Detected	None Detected	PC 94.7

Lab No. 1195603 **Material Description:** Dk.Blue/Lt.Yellow
Client No.: 1C **Location:** Floor Tile Black Mastic

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	Trace	Cellulose	90
Black Mastic				
From Above				

Lab No. 1195604 **Material Description:** Sample Not Analyzed
Client No.: 2C **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1195605 **Material Description:** Sample Not Analyzed
Client No.: 3C **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: _____

Date: DEC 19 2000

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/27/2000
Project: Mystic Education Center, 12-12-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1195606 **Material Description:** Tan Floor Tile
Client No.: 4C **Location:** Black Mastic

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 5.8	Chrysotile	None Detected	None Detected	PC 94.2

Lab No. 1195606 **Material Description:** Tan Floor Tile
Client No.: 4C **Location:** Black Mastic

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Black Mastic				
From Above				

Lab No. 1195607 **Material Description:** Black Mastic
Client No.: 5C **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Floor Tile				
Not Analyzed				

Lab No. 1195608 **Material Description:** Black Mastic
Client No.: 6C **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Floor Tile				
Not Analyzed				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

Date: _____

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/20/2000
Project: Mystic Education Center, 12-12-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1195609 **Material Description:** Dk.Brown Floor Tile
Client No.: 7C **Location:** Black Mastic Closet

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 8.5	Chrysotile	None Detected	None Detected	PC 91.5

Lab No. 1195609 **Material Description:** Dk.Brown Floor Tile
Client No.: 7C **Location:** Black Mastic Closet

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100
Black Mastic				
From Above				

Lab No. 1195610 **Material Description:** Black Mastic
Client No.: 8C **Location:** Closet

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100
Floor Tile				
Not Analyzed				

Lab No. 1195611 **Material Description:** Black Mastic
Client No.: 9C **Location:** Closet

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100
Floor Tile				
Not Analyzed				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: _____

Date: _____

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/20/2000
Project: Mystic Education Center, 12-12-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1195612 **Material Description:** Dk.Blue Floor Tile
Client No.: 10C **Location:** Black Mastic Gym Equipment Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.8	Chrysotile	None Detected	None Detected	PC 96.2

Lab No. 1195612 **Material Description:** Dk.Blue Floor Tile
Client No.: 10C **Location:** Black Mastic Gym Equipment Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	Trace	Cellulose	90

Black Mastic
From Above

Lab No. 1195613 **Material Description:** Green Floor Tile
Client No.: 11C **Location:** Black Mastic Former Paint Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 4.5	Chrysotile	None Detected	None Detected	PC 95.5

Lab No. 1195613 **Material Description:** Green Floor Tile
Client No.: 11C **Location:** Black Mastic Former Paint Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Black Mastic
From Above

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: _____

Date: 9 2000

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/20/2000
Project: Mystic Education Center, 12-12-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1195614 **Material Description:** Black Mastic
Client No.: 12C **Location:** Former Paint Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Floor Tile				
Not Analyzed				

Lab No. 1195615 **Material Description:** Black Mastic
Client No.: 13C **Location:** Former Paint Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Floor Tile				
Not Analyzed				

Lab No. 1195616 **Material Description:** Red Floor Tile
Client No.: 14C **Location:** Black Mastic Former Paint Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.8	Chrysotile	None Detected	None Detected	PC 96.2

Lab No. 1195616 **Material Description:** Red Floor Tile
Client No.: 14C **Location:** Black Mastic Former Paint Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100
Black Mastic				
From Above				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: _____

Date: _____

Approved By: _____

Frank E Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/20/2000
Project: Mystic Education Center, 12-12-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1195617 **Material Description:** Black Mastic
Client No.: 15C **Location:** Former Paint Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100
Floor Tile				
Not Analyzed				

Lab No. 1195618 **Material Description:** Black Mastic
Client No.: 16C **Location:** Former Paint Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100
Floor Tile				
Not Analyzed				

Lab No. 1195619 **Material Description:** Tan Insulation
Client No.: 17C **Location:** Piping-MachincRoom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 5.8	Amosite	Trace	Cellulose	PC 64.2
		30	Mineral Wool	

Lab No. 1195620 **Material Description:** Sample Not Analyzed
Client No.: 18C **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: _____

Date: _____

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08051
Telephone: 609.231.9449 Fax: 609.231.9818

972/8

- Chain of Custody -

Client: Delta Environmental Services
P.O. Box 564
Branford, CT 06405

Project Name: Mystic Education Center
Project No.: D97-148-24

Phone: (203) 481-7668
FAX: (203) 488-8164

Contact:
Pager:

Special Instructions:

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[✓] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400
[ ] PCM : OSHA
[ ] PCM : Other_____

[ ] AAS : NIOSH 7082 (Air)
[ ] AAS : Lead in Drinking Water
[ ] AAS : Lead in Paint ASTM D3335-85a
[ ] AAS : Lead Dust/Wipe
[ ] AAS : Other Metals / Soil_____

[✓] PLM : Bulk Asbestos EPA 600
[ ] PLM : Point Counting 198.1
[ ] PLM : NOB via 198.1 (PLM only)
[ ] If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements **
(**call to confirm TAT!)

[ ] TEM : AHERA
[ ] TEM : NIOSH 7402
[ ] TEM : EPA Level II
[ ] TEM : Microvac Dust
[ ] TEM : Asbestos in Water
[ ] TEM : Bulk Analysis
[ ] TEM : NOB 198.4
[ ] TEM : Other_____
[ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ (date / time) Verbals: _____ (date / time)

[ ] 10 Day [ ] 5 Day [✓] 72 hour [ ] 48 hour [ ] 24 hour [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): 1p - 12p, 1c - 18c, 1d - 8d (start) (end)

IATL#(s): _____ (start) - _____ (end) Total: ___

Chain of Custody:

Relinquished:	James R. Mulatz	Date: 12/12/00	Time: 4:20 p.m.
Received:		Date:	Time:
Sample Log-in:	[illegible]	Date: 12/16/00	Time: 0835
Sample Prep:		Date: 12/19/00	Time:
Analyzed:		Date:	Time:
QA/QC Review:	MM [illegible] @ 12/27/00	Date: 14	Time:

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: Crowter Building V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
1c	Blue-Gray 9" Floor Tile						Asbestos PLM EPA 600 1195603 Please use positive stop;	Corridor				
2c	↓						1195604	↓				
3c	↓						1195605	↓				
4c	Tan 9" Floor Tile						1195606 Please use positive stop					
5c	↓						1195607					
6c	↓						1195608					
7c	Dark Brown/Red 9" Floor Tile						1195609 Please use positive stop	Closet				
8c	↓						1195610 1195611	↓				
9c	↓							↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P Malatts	Delta			1		James P Malatts			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Crouter Building

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
10c	Blue-Gray 9" Floor Tile						Asbestos PLM EPA 600 1195612	Gym Equipment Room				
11c	Green 9" Floor Tile						1195613 Please use positive stop	Former Paint Shop				
12c	↓						1195614 ↓	↓				
13c	↓						1195615 ↓	↓				
14c	Red 9" Floor Tile						1195616 Please use positive stop	↓				
15c	↓						1195617 ↓	↓				
16c	↓						1195618 ↓	↓				
17c	Pipe Fitting						1195619 Please use positive stop	On Fbgl. - Insulated Piping - Machine Room				
18c	↓						1195620 ↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Crouter Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217281 **Material Description:** White Fibrous
Client No.: 19 **Location:** Corridor Near Paint Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Fibrous Glass	70

Lab No. 1217282 **Material Description:** Yellow Fibrous
Client No.: 20 **Location:** Corridor Near Room B-10

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	75	Fibrous Glass	25

Lab No. 1217283 **Material Description:** Yellow Fibrous
Client No.: 21 **Location:** Room B-10

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	75	Fibrous Glass	25

Lab No. 1217284 **Material Description:** Tan Fibrous
Client No.: 22 **Location:** Room B-5

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	70	Cellulose	30

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Graciela Manjarres N.
Date:
Graciela Manjarres N., AIHA-AAP

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Crouter Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217285 **Material Description:** Tan Fibrous
Client No.: 23 **Location:** Room B-5

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	60	Cellulose	40

Lab No. 1217286 **Material Description:** Tan Fibrous
Client No.: 24 **Location:** Room B-5

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	65	Cellulose	35

Lab No. 1217287 **Material Description:** Tan Non Fibrous
Client No.: 25 **Location:** Exterior NE Corner Of Gym

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC Trace	Chrysotile	None Detected	None Detected	100

Lab No. 1217288 **Material Description:** Grey Window Caulk
Client No.: 26 **Location:** Outside B-5 S.E. Corner

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 5.5	Chrysotile	None Detected	None Detected	PC 94.5

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: Graciela Manjarres N.

Date: Graciela Manjarres N., AIHA-AAC

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Crouter Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217289 **Material Description:** Sample Not Analyzed
Client No.: 27 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1217290 **Material Description:** Sample Not Analyzed
Client No.: 28 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1217291 **Material Description:** Grey Door Caulk
Client No.: 29 **Location:** S.W. Corner Of Bldg. Vestibule Near B-1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 5.0	Chrysotile	None Detected	None Detected	95

Lab No. 1217292 **Material Description:** Sample Not Analyzed
Client No.: 30 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: Graciela Manjarres N.

Date: Graciela Manjarres N., AIHA-AAD

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Crouter Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217293
Client No.: 31

Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: Graciela Manjarres N.

Approved By: Frank Ehrenfeld

Date: Graciela Manjarres N., AIHA-AAD

Frank E. Ehrenfeld, III
Laboratory Director

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT — Crouter Building

PROJECT NUMBER: D97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
19	Fiberglass Ceiling Tile	1217281					Asbestos PCM EPA 600 Positive Stop	Corridor Near Paint Shop				
20	↓	1217282					↓	Corridor Near Room B-10				
21	↓	1217283					↓	Room B-10				
22	Ceiling Insulation	1217284					Positive Stop	Room B-5				
23	↓	1217285					↓	↓				
24	↓	1217286					↓	↓				
25	Door Frame Caulk	1217287						Exterior NE Corner of Gym				
26	Window Caulk	1217288					Positive Stop	Outside B-5 SE Corner				
27	↓	1217289					↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melnotte	DELTA			1		James R Melnotte			
				2					
				3					
				4		[illegible]	[illegible]	1/3/2001	

ADDITIONAL COMMENTS:

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME:	PROJECT LOCATION:		PROJECT NUMBER:
Mystic Education Center	Mystic, CT	Center Building	V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
28	window caulk	12	17	90			Asbestos PLM EPA 600	outside B-5 SE Corner				
29	Door Frame Caulk	12	17	91			Positive stop	SW Corner of Bldg Vestibule Near B-1				
30		12	17	92								
31		12	17	93								

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

APPENDIX C

Laboratory and Inspector Accreditations

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT - INSP/MGMT PLANNER

LICENSE NO.
000044
CURRENT THROUGH
02/28/01
VALIDATION NO.
00-321886

JAMES P. MCCARTHY

SIGNATURE

COMMISSIONER, DEPT. OF PUBLIC HEALTH

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

CHEMSCOPE, INC.

NORTH HAVEN, CT

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

BULK ASBESTOS FIBER ANALYSIS

March 31, 2002

Effective through

David F. Alderman

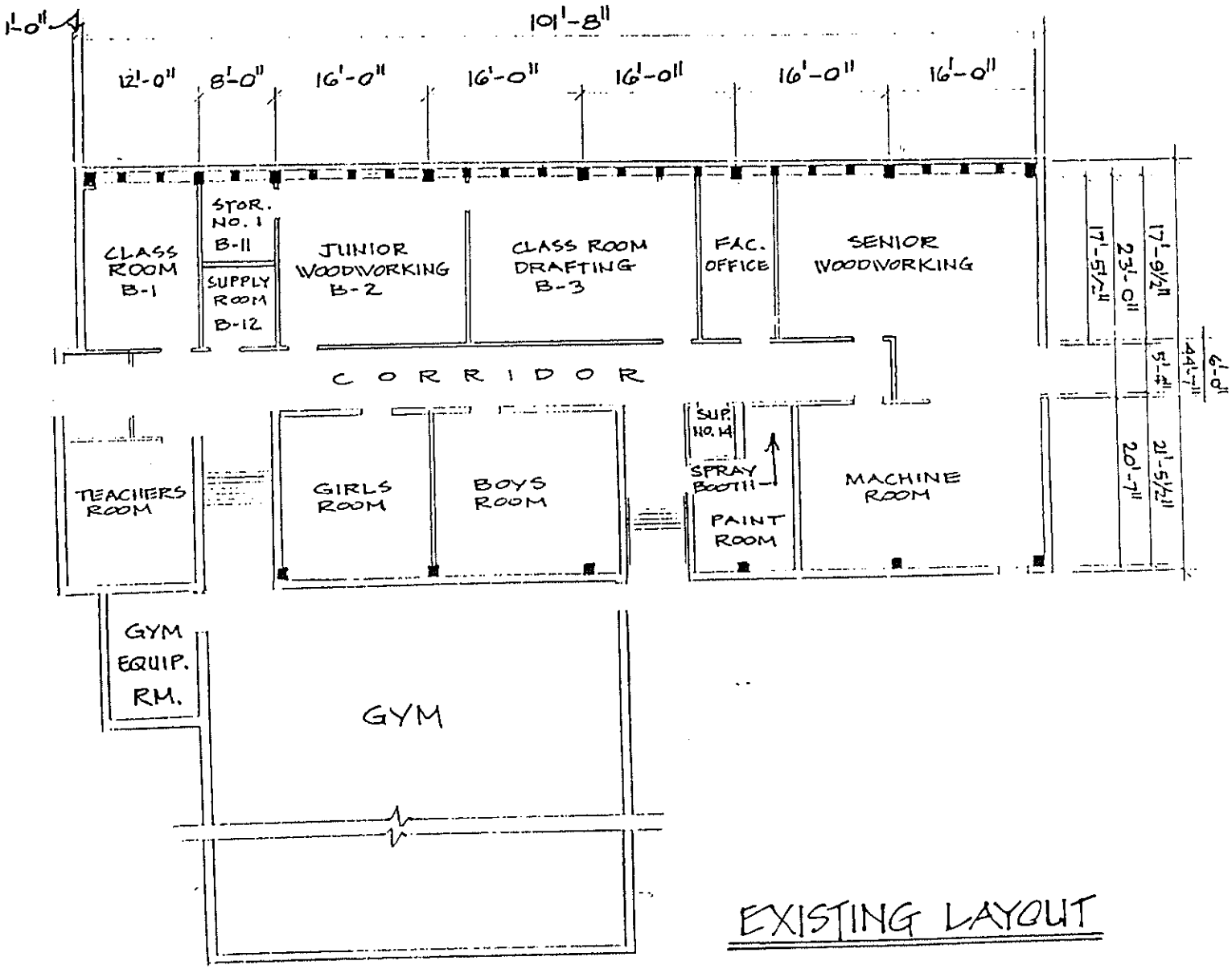
For the National Institute of Standards and Technology

NVLAP Lab Code: 101061-0

NVLAP-01C (11-95)

APPENDIX D

Building Diagrams



EXISTING LAYOUT

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
CROUTER BUILDING (DPW Building No. 16948)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: November 2001

DELTA
ENVIRONMENTAL
SERVICES®, INC.

81 Schoolground Road
P.O. Box 564, Branford, CT
(203) 481-7668

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
CROUTER BUILDING (DPW Building No. 16948)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: November 2001

DELTA ENVIRONMENTAL SERVICES®, INC.
81 Schoolground Road
P.O. Box 564, Branford, CT
(203) 481-7668

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3.1	Asbestos Sampling Procedures	1
3.2	Asbestos Analytical Procedures	2
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TABLES

3-1 Bulk Sample Summary for Suspect Asbestos-Containing Materials

3-2 Asbestos-Containing Material

3-3 Non-Asbestos-Containing Material

5-1 Asbestos Abatement Cost Estimate

APPENDICES

APPENDIX A - Inventory of Identified Asbestos-Containing Material

APPENDIX B - Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

APPENDIX C - Laboratory and Inspector Accreditations

APPENDIX D - Building Diagrams

1.0 INTRODUCTION

This report summarizes the results of an asbestos inspection conducted by DELTA Environmental Services, Inc. (DELTA) for the Crouter Building (DPW Building Number 16948) at the Mystic Education Center facility at 290 Oral School Road in Mystic, Connecticut. The project consisted of: review of available building records; physical inspection of the building to determine the quantities and locations of asbestos-containing materials (ACM); and bulk sampling of suspected asbestos-containing materials (ACM).

2.0 BUILDING DESCRIPTION

Mystic Education Center is a seven-building campus-type facility. The property consists of approximately 122 acres and 250,000 square feet of building floor space. The Crouter Building is a one-story masonry structure. The building covers approximately 7,500 square feet and was constructed in the 1950's. The building is currently vacant and previously housed the facility's vocational and physical education programs. The building consists of: a former machine shop, woodworking area, paint shop, classrooms, a gymnasium and storage and mechanical rooms. Room numbers referred to in this report correspond to the building diagrams in Appendix D.

The Crouter building is heated via a hot water radiant system. Heat is provided by the main boiler room in the Administration Building. The main steam supply from the Administration Building enters the Crouter Building via a sub-grade mechanical pit at the east side, which was not accessible for inspection.

3.0 ASBESTOS SURVEY

3.1 Asbestos Sampling Procedures

Bulk samples of suspected ACM were collected by James P. McCarthy, P.E., of DELTA, a Connecticut Department of Public Health licensed inspector. Samples were collected using a clean knife or other appropriate tool after first wetting the material to be sampled to limit fiber release.

Samples were placed in dedicated sealable plastic bags and promptly transmitted to the analytical laboratory using strict chain of custody procedures. Sampling was performed in accordance with Environmental Protection Agency protocols, which require a minimum of three negative results in order to establish that a material does not contain asbestos.

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
CROUTER BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
1	1195603	Blue-Gray 9" Floor Tile Mastic From Above	Main Corridor	5.3% Chrysotile (Point Count) 10% Chrysotile
2	1195604	Blue-Gray 9" Floor Tile	Main Corridor	Not Analyzed
3	1195605	Blue-Gray 9" Floor Tile	Main Corridor	Not Analyzed
4	1195606	Light Brown 9" Floor Tile Mastic From Above	Main Corridor	5.8% Chrysotile (Point Count) NAD
5	1195607	Light Brown 9" Floor Tile Mastic From Above	Main Corridor	Not Analyzed NAD
6	1195608	Light Brown 9" Floor Tile Mastic From Above	Main Corridor	Not Analyzed NAD
7	1195609	Dark Brown/Red 9" Floor Tile Mastic From Above	Room B-12 Supply Room No. 2	8.5% Chrysotile (Point Count) NAD
8	1195610	Dark Brown/Red 9" Floor Tile Mastic From Above	Room B-12 Supply Room No. 2	Not Analyzed NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
CROUTER BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
9	1195611	Dark Brown/Red 9" Floor Tile Mastic From Above	Room B-12 Supply Room No. 2	Not Analyzed NAD
10	1195612	Blue-Gray 9" Floor Tile Mastic From Above	Room B-9 Gym Equipment	3.8% Chrysotile (Point Count) 10% Chrysotile
11	1195613	Green 9" Floor Tile Mastic From Above	Room B-7 Paint Shop	4.5% Chrysotile (Point Count) NAD
12	1195614	Green 9" Floor Tile Mastic From Above	Room B-7 Paint Shop	Not Analyzed NAD
13	1195615	Green 9" Floor Tile Mastic From Above	Room B-7 Paint Shop	Not Analyzed NAD
14	1195616	Red 9" Floor Tile Mastic From Above	Room B-13 Paint Spray Booth	3.8% Chrysotile (Point Count) NAD
15	1195617	Red 9" Floor Tile Mastic From Above	Room B-13 Paint Spray Booth	Not Analyzed NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
CROUTER BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
16	1195618	Red 9" Floor Tile Mastic From Above	Room B-13 Paint Spray Booth	Not Analyzed NAD
17	1195619	Pipe Fitting on Fiberglass-Insulated Water Pipe	Room B-6 Machine Shop Along Ceiling	5.8% Chrysotile (Point Count)
18	1195620	Pipe Fitting on Fiberglass-Insulated Water Pipe	Room B-6 Machine Shop Along Ceiling	Not Analyzed
19	1217281	Facing on 2' X 4' Fiberglass Ceiling Tile	Corridor Near Paint Shop	NAD
20	1217282	Facing on 2' X 4' Fiberglass Ceiling Tile	Corridor Near Room B-10	NAD
21	1217283	Facing on 2' X 4' Fiberglass Ceiling Tile	Room B-10	NAD
22	1217284	Ceiling Insulation	Room B-5	NAD
23	1217285	Ceiling Insulation	Room B-5	NAD
24	1217286	Ceiling Insulation	Room B-5	NAD
25	1217287	Door Frame Caulk	Exterior Northeast Corner of Gym	Trace Chrysotile (Point Count)

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
CROUTER BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
26	1217288	Window Caulk	Outside Room B-5 Southeast Corner	5.5% Chrysotile (Point Count)
27	1217289	Window Caulk	Outside Room B-5 Southeast Corner	Not Analyzed
28	1217290	Window Caulk	Outside Room B-5 Southeast Corner	Not Analyzed
29	1217291	Door Frame Caulk	SW Corner of Building Vestibule Near Room B-1	5.0% Chrysotile (Point Count)
30	1217292	Door Frame Caulk	SW Corner of Building Vestibule Near Room B-1	Not Analyzed
31	1217293	Door Frame Caulk	SW Corner of Building Vestibule Near Room B-1	Not Analyzed

NOTE: "NAD" INDICATES NO ASBESTOS DETECTED

3.2 Asbestos Analytical Procedures

Analysis was performed by International Asbestos Testing Laboratories, Inc. (IATL), Mt. Laurel, New Jersey, a National Institute of Standards and Technology accredited laboratory. Analysis was performed using Polarized Light Microscopy (PLM) Method EPA 600. Point counting was used to quantify asbestos content for all samples found to contain less than ten percent asbestos.

3.3 Asbestos Analytical Results

The results of recent bulk sampling performed by DELTA are summarized in Table 3-1. Laboratory data sheets are included in Appendix B.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: blue-gray 9" floor tile and mastic; light brown 9" floor tile; dark brown/red 9" floor tile; green 9" floor tile; bright red 9" floor tile; cementitious mudded fitting insulation on fiberglass insulated piping; asbestos-containing "aircell" type pipe insulation in custodian closet B-14; exterior door frame caulk; and exterior window frame caulk.

The various types of vinyl floor tile in the building were found to contain between 3.8 and 8.5% chrysotile asbestos. The tile mastic was found not to contain asbestos, with the exception of the blue-gray tile. Mastic from the blue-gray tile contains 10% chrysotile. Floor tile is generally in poor to fair condition, with loose tiles in several spots. Though the tile is unlikely to present a hazard unless it is actively disturbed, any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile (and mastic if applicable) as asbestos.

Domestic hot and cold water piping throughout the building is insulated with fiberglass. The pipe elbows have cementitious fittings which were found to contain 5.8% chrysotile asbestos (additional asbestos fittings are present on roof drain lines in the gymnasium). The majority of the fittings are concealed in pipe chases or above drop ceilings. The fittings are generally in good condition.

Approximately one linear foot of asbestos-containing aircell pipe insulation was noted in custodian closet B-14 in the building. The insulation is present at the wall penetration to the corridor. The pipe insulation throughout the rest of the building is fiberglass (with asbestos-containing fittings as discussed previously).

TABLE 3-2: ASBESTOS-CONTAINING MATERIAL
CROUTER BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

HOMOGENEOUS AREA NUMBER	MATERIAL DESCRIPTION	LOCATION	ASBESTOS TYPE AND CONTENT (%)
1	Blue-Gray 9" Floor Tile	North Side of Main Corridor, East Corridor Near Paint Room, Room B-9, Room B-10	3.8 - 5.3% chrysotile
2	Mastic From Blue-Gray 9" Floor Tile	North Side of Main Corridor, East Corridor Near Paint Room, Room B-9, Room B-10	10% chrysotile
3	Light Brown 9" Floor Tile	South Side of Main Corridor	5.8% chrysotile
4	Dark Brown/Red 9" Floor Tile	Storage Rooms B-11 and B-12	8.5% chrysotile
5	Green 9" Floor Tile	Paint Room B-7 and Room B-4	4.5% chrysotile
6	Bright Red 9" Floor Tile	Paint Booth B-13	3.8% chrysotile
7	Cementitious Mudded Fittings on Fiberglass Insulated Plumbing	Throughout	5.8% chrysotile
8	Door Frame Caulk	Exterior Doors	5.0% chrysotile
9	Window Caulk	Exterior Windows	5.5% chrysotile

NOTE: NAD indicates "No Asbestos Detected"

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL CROUTER BUILDING MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
HOMOGENEOUS AREA NUMBER	**MATERIAL DESCRIPTION**	**LOCATION**	**ASBESTOS TYPE AND CONTENT (%)**
10	Mastic From Light Brown 9" Floor Tile	South Side of Main Corridor	NAD
11	Mastic From Dark Brown/Red 9" Floor Tile	Storage Rooms B-11 and B-12	NAD
12	Mastic From Green 9" Floor Tile	Paint Room B-7 and Room B-4	NAD
13	Mastic From Bright Red 9" Floor Tile	Paint Booth B-13	NAD
14	Suspended Ceiling Tile - 2' X 4' with Fiberglass Backing	Corridors	NAD
15	Cellulose-Based Ceiling Insulation	Throughout	NAD
NOTE: NAD indicates "No Asbestos Detected"			

Exterior window and door caulking material was found to contain 5.5% and 5% chrysotile asbestos, respectively. The material is hard and is nonfriable. The caulking is unlikely to release asbestos fibers under normal conditions, but would have to be addressed if the windows/doors are replaced.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

4.0. DISCUSSION AND RECOMMENDATIONS

The Crouter Building is a one-story masonry structure. The building covers approximately 7,500 square feet and was constructed in the 1950's. The building is currently vacant and previously housed the facility's vocational and physical education programs. The building consists of: a former machine shop, woodworking area, paint shop, classrooms, a gymnasium and storage and mechanical rooms.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: blue-gray 9" floor tile and mastic; light brown 9" floor tile; dark brown/red 9" floor tile; green 9" floor tile; bright red 9" floor tile; cementitious mudded fitting insulation on fiberglass insulated piping; asbestos-containing "aircell" type pipe insulation in custodian closet B-14; exterior door frame caulk; and exterior window frame caulk.

The various types of vinyl floor tile in the building were found to contain between 3.8 and 8.5% chrysotile asbestos. The tile mastic was found not to contain asbestos, with the exception of the blue-gray tile. Mastic from the blue-gray tile contains 10% chrysotile. Floor tile is generally in poor to fair condition, with loose tiles in several spots. Though the tile is unlikely to present a hazard unless it is actively disturbed, any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile (and mastic if applicable) as asbestos.

Domestic hot and cold water piping throughout the building is insulated with fiberglass. The pipe elbows have cementitious fittings which were found to contain 5.8% chrysotile asbestos. The majority of the fittings are concealed in pipe chases or above drop ceilings and are in good condition.

Approximately one linear foot of asbestos-containing aircell pipe insulation was noted in custodian closet B-14 in the building. The insulation is present at the wall penetration to the corridor. The pipe insulation throughout the rest of the building is fiberglass (with asbestos-containing fittings as discussed previously).

Exterior window and door caulking material was found to contain 5.5% and 5% chrysotile asbestos, respectively. The material is hard and is nonfriable. The caulking is unlikely to release asbestos fibers under normal conditions, but would have to be addressed if the windows/doors are replaced.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

5.0 ESTIMATED COST FOR ASBESTOS ABATEMENT

The estimated cost for asbestos abatement shown in Table 5-1 is provided solely for establishing removal and replacement costs for the DPW asbestos inventory database. The abatement estimate utilizes fixed unit costs for specific item descriptions. Abatement projects are to be estimated with respect to individual project requirements or conditions.

The estimated cost for abatement of the building (including thermal systems reinsulation) is $10,000. It should be noted that the cost estimate does not include removal of roofing materials. The cost estimate utilizes standard unit prices for removal of different types of asbestos-containing materials. When an actual asbestos abatement project is planned, a more precise estimate can be developed based on the specific work scope.

6.0. LIMITATIONS

The survey has the following limitations:

- DELTA's survey included an evaluation for the presence of asbestos-containing insulation on electrical equipment in the building. The inspection included building wiring, whips and fixtures. No suspect insulation was found. The inspection was designed to cover a representative portion of the building, since it was not feasible to examine all fixtures, junction boxes, etc.

TABLE 5-1

CROUTER BUILDING
MYSTIC EDUCATION CENTER
ASBESTOS ABATEMENT COST ESTIMATE

Item Description	Quantity	Unit	Unit Cost	Subtotal Cost
REMOVAL				
Thermal System Insulation	165	SF	$10.00	$1,650
Misc. Material	810	SF	$5.00	$4,050
SUB TOTAL REMOVAL				$5,700
REPLACEMENT				
Thermal System Insulation	165	SF	$10.00	$1,650
Thermal System Insulation		LF	$15.00	$0,00
Surfacing Material		SF	$10.00	$0,00
Miscellaneous Material		LF	N/A	
Miscellaneous Material		SF	N/A	
SUB TOTAL REPLACEMENT				$1,650
Construction				$7,350
Consultant (20%)				$1,470
Contingency (10%)				$0,882
TOTAL				$9,702
ABATEMENT ESTIMATE				**$10,000**

- The survey did not utilize "destructive" sampling methods, and therefore may not have identified all of the asbestos-containing materials in the building. Specifically, the inspection did not include areas enclosed by walls or ceilings, unless these spaces could be accessed without damage.

- The survey did not include destructive sampling of furnishings such as chalkboards, corkboards, fire doors and benchtops.

- The survey attempted to access and identify asbestos-containing materials associated with HVAC and mechanical systems. However, such systems were not dismantled during the inspection. It is possible that boilers, furnaces, fan units and other devices may contain gaskets and other interior asbestos material which can only be accessed through dismantling them. Care should be taken to avoid the accidental disturbance of asbestos during maintenance or repair work on such devices.

APPENDIX A

Inventory of Identified Asbestos-Containing Material

CROUTER BUILDING
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
	STEAM PIT												ASSUMED ACM INSUL.
B-1													
B-2													
B-3													
B-4	OFFICE	5	9" GREEN FLOOR TILE	5%	130								
B-5	WOODWORKING	7	FITTINGS WITH FBGL INSULATION	6%					2				
B-5	WOODWORKING	7	FITTINGS WITH FBGL INSULATION	10%	10								TILE WAS APPARENTLY ABATED
B-6	MACHINE ROOM	7	FITTINGS WITH FBGL INSULATION	6%					4				
B-6	MACHINE ROOM	2	RESIDUAL FLOOR TILE MASTIC	10%	10								TILE WAS APPARENTLY ABATED
B-7	PAINT ROOM	5	9" GREEN FLOOR TILE	5%	20								
B-8	GYMNASIUM								2				LARGE FITTINGS ON ROOF DRAINS
B-9	GYM EQUIPMENT	1, 2	9" BLUE-GRAY FLOOR TILE/MASTIC	5.3% / 10%	70								
B-9	GYM EQUIPMENT	7	FITTINGS WITH FBGL INSULATION	6%					20				
BOYS' LOCKER	LOCKER ROOM	7	FITTINGS WITH FBGL INSULATION	6%					40				FITTINGS ABOVE SUSP. CEILING
	PIPE CHASE	7	FITTINGS WITH FBGL INSULATION	6%					15				
GIRLS' LOCKER	LOCKER ROOM	7	FITTINGS WITH FBGL INSULATION	6%					40				FITTINGS ABOVE SUSP. CEILING
	PIPE CHASE	7	FITTINGS WITH FBGL INSULATION	6%					15				
B-10	OFFICE	1, 2	9" BLUE-GRAY FLOOR TILE/MASTIC	5.3% / 10%					4				FITTINGS ABOVE SUSP. CEILING
B-10	OFFICE BATHROOM								5				FITTINGS ABOVE SUSP. CEILING
B-11	STORAGE CLOSET	4	9" DARK RED FLOOR TILE	9%									
B-12	STORAGE CLOSET	4	9" DARK RED FLOOR TILE	9%					5				STORED BOXES OF ASB. FL. TILE
B-13	PAINT BOOTH	6	9" RED FLOOR TILE	4%					3				
B-14	CUSTODIAN CLOSET		PIPE INSULATION	ASSUMED				1					SCRAP OF ASB. INSUL.
MAIN CORR.	NORTH SIDE	1, 2	9" BLUE-GRAY FLOOR TILE/MASTIC	5.3% / 10%	150								
MAIN CORR.	SOUTH SIDE	3	9" LIGHT BROWN FLOOR TILE	6%	430								
NO. CORR.	BETW. GYM AND B-7	7	FITTINGS WITH FBGL INSULATION	6%					4				FITTINGS ABOVE SUSP. CEILING
NO. CORR.	BETW. GYM AND B-7	1, 2	9" BLUE-GRAY FLOOR TILE/MASTIC	5.3% / 10%	120								
SO. CORR.	BETW. GYM AND B-10	7	FITTINGS WITH FBGL INSULATION	6%					5				FITTINGS ABOVE SUSP. CEILING

APPENDIX B

Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/20/2000
Project: Mystic Education Center, 12-12-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1195603 **Material Description:** Dk.Blue/Lt.Yellow
Client No.: 1C **Location:** Floor Tile Black Mastic

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 5.3	Chrysotile	None Detected	None Detected	PC 94.7

Lab No. 1195603 **Material Description:** Dk.Blue/Lt.Yellow
Client No.: 1C **Location:** Floor Tile Black Mastic

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	Trace	Cellulose	90
Black Mastic				
From Above				

Lab No. 1195604 **Material Description:** Sample Not Analyzed
Client No.: 2C **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1195605 **Material Description:** Sample Not Analyzed
Client No.: 3C **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By:

Date: DEC 19 2000

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/27/2000
Project: Mystic Education Center, 12-12-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1195606 **Material Description:** Tan Floor Tile
Client No.: 4C **Location:** Black Mastic

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 5.8	Chrysotile	None Detected	None Detected	PC 94.2

Lab No. 1195606 **Material Description:** Tan Floor Tile
Client No.: 4C **Location:** Black Mastic

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Black Mastic				
From Above				

Lab No. 1195607 **Material Description:** Black Mastic
Client No.: 5C **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Floor Tile				
Not Analyzed				

Lab No. 1195608 **Material Description:** Black Mastic
Client No.: 6C **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Floor Tile				
Not Analyzed				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: _____

Date: _____

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/20/2000
Project: Mystic Education Center, 12-12-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1195609 **Material Description:** Dk.Brown Floor Tile
Client No.: 7C **Location:** Black Mastic Closet

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 8.5	Chrysotile	None Detected	None Detected	PC 91.5

Lab No. 1195609 **Material Description:** Dk.Brown Floor Tile
Client No.: 7C **Location:** Black Mastic Closet

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100
Black Mastic				
From Above				

Lab No. 1195610 **Material Description:** Black Mastic
Client No.: 8C **Location:** Closet

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100
Floor Tile				
Not Analyzed				

Lab No. 1195611 **Material Description:** Black Mastic
Client No.: 9C **Location:** Closet

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100
Floor Tile				
Not Analyzed				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/20/2000
Project: Mystic Education Center, 12-12-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1195612 **Material Description:** Dk.Blue Floor Tile
Client No.: 10C **Location:** Black Mastic Gym Equipment Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.8	Chrysotile	None Detected	None Detected	PC 96.2

Lab No. 1195612 **Material Description:** Dk.Blue Floor Tile
Client No.: 10C **Location:** Black Mastic Gym Equipment Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	Trace	Cellulose	90
Black Mastic				
From Above				

Lab No. 1195613 **Material Description:** Green Floor Tile
Client No.: 11C **Location:** Black Mastic Former Paint Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 4.5	Chrysotile	None Detected	None Detected	PC 95.5

Lab No. 1195613 **Material Description:** Green Floor Tile
Client No.: 11C **Location:** Black Mastic Former Paint Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Black Mastic				
From Above				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By:

Date: DEC 19 2000

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/20/2000
Project: Mystic Education Center, 12-12-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1195614 **Material Description:** Black Mastic
Client No.: 12C **Location:** Former Paint Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Floor Tile

Not Analyzed

Lab No. 1195615 **Material Description:** Black Mastic
Client No.: 13C **Location:** Former Paint Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Floor Tile

Not Analyzed

Lab No. 1195616 **Material Description:** Red Floor Tile
Client No.: 14C **Location:** Black Mastic Former Paint Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.8	Chrysotile	None Detected	None Detected	PC 96.2

Lab No. 1195616 **Material Description:** Red Floor Tile
Client No.: 14C **Location:** Black Mastic Former Paint Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100

Black Mastic

From Above

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By:

Date:

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/20/2000
Project: Mystic Education Center, 12-12-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1195617 **Material Description:** Black Mastic
Client No.: 15C **Location:** Former Paint Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100
Floor Tile				
Not Analyzed				

Lab No. 1195618 **Material Description:** Black Mastic
Client No.: 16C **Location:** Former Paint Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	100
Floor Tile				
Not Analyzed				

Lab No. 1195619 **Material Description:** Tan Insulation
Client No.: 17C **Location:** Piping-MachineRoom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 5.8	Amosite	Trace	Cellulose	PC 64.2
		30	Mineral Wool	

Lab No. 1195620 **Material Description:** Sample Not Analyzed
Client No.: 18C **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____
Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 609.231.9449 Fax: 609.231.9818

972/8

- Chain of Custody -

Client: Delta Environmental Services
P.O. Box 564
Branford, CT 06405

Project Name: Mystic Education Center
Project No.: D97-148-24

Phone: (203) 481-7668
FAX: (203) 488-8164

Contact:
Pager:

Special Instructions:

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[✓] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400	[✓] PLM : Bulk Asbestos EPA 600	[ ] TEM : AHERA
[ ] PCM : OSHA	[ ] PLM : Point Counting 198.1	[ ] TEM : NIOSH 7402
[ ] PCM : Other_____	[ ] PLM : NOB via 198.1 (PLM only)	[ ] TEM : EPA Level II
	[ ] If <1% by PLM, to TEM via 198.4	[ ] TEM : Microvac Dust
[ ] AAS : NIOSH 7082 (Air)	to meet NYSDOH requirements **	[ ] TEM : Asbestos in Water
[ ] AAS : Lead in Drinking Water	(**call to confirm TAT!)	[ ] TEM : Bulk Analysis
[ ] AAS : Lead in Paint ASTM D3335-85a		[ ] TEM : NOB 198.4
[ ] AAS : Lead Dust/Wipe		[ ] TEM : Other_____
[ ] AAS : Other Metals / Soil_____		[ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ (date / time) Verbals: _____ (date / time)

[ ] 10 Day [ ] 5 Day [✓] 72 hour [ ] 48 hour [ ] 24 hour [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): 12 - 12
1c - 1e
1d - e d
(start) - (end)

IATL#(s): _____ - _____ (start) - (end) Total: ___

Chain of Custody:

Relinquished:	James R. Mulcahy	Date: 12/12/00	Time: 4:20 p.m.
Received:		Date:	Time:
Sample Log-in:	JZ	Date: 12/16/00	Time: 0955
Sample Prep:		Date: 12/19/00	Time:
Analyzed:		Date:	Time:
QA/QC Review:	MM @ 12/27/00	Date: 14	Time:

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Crowter Building

PROJECT NUMBER: D97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
1c	Blue-Gray 9" Floor Tile						Asbestos PLM EPA 600 1195603 Please use positive stop	Corridor				
2c	↓						1195604	↓				
3c	↓						1195605	↓				
4c	Tan 9" Floor Tile						1195606 Please use positive stop					
5c	↓						1195607					
6c	↓						1195608					
7c	Dark Brown/Red 9" Floor Tile						1195609 Please use positive stop	Closet				
8c	↓						1195610 1195611	↓				
9c	↓											

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R McLaughlin	Delta			1		James R McLaughlin			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center
PROJECT LOCATION: Mystic, CT Crouter Building
PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify ___ O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
10c	Blue-Gray 9" Floor Tile						Asbestos PLM EPA 600 1195612	Gym Equipment Room				
11c	Green 9" Floor Tile						1195613 Please use positive stop	Former Paint Shop				
12c	↓						1195614 ↓	↓				
13c	↓						1195615 ↓	↓				
14c	Red 9" Floor Tile						1195616 Please use positive stop	↓				
15c	↓						1195617 ↓	↓				
16c	↓						1195618 ↓	↓				
17c	Pipe Fitting						1195619 Please use positive stop	on Fbgl. - Insulated Piping - Machine Room				
18c	↓						1195620 ↓	↓				

Container Codes: P = Plastic E = EPA VIAL G = Glass A = Amber Glass B = Bacteria Bottle
Preservative Codes: I = Iced F = Filtered N = Nitric Acid (HNO_3) H = Hydrochloric Acid (HCl) S= Sodium Hydroxide (NaOH) T = Sodium Thiosulfate F = Sulfuric Acid
O = Other; Specify ___

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
ADDITIONAL COMMENTS:				2					
				3					
				4					

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Crouter Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217281 **Material Description:** White Fibrous
Client No.: 19 **Location:** Corridor Near Paint Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Fibrous Glass	70

Lab No. 1217282 **Material Description:** Yellow Fibrous
Client No.: 20 **Location:** Corridor Near Room B-10

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	75	Fibrous Glass	25

Lab No. 1217283 **Material Description:** Yellow Fibrous
Client No.: 21 **Location:** Room B-10

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	75	Fibrous Glass	25

Lab No. 1217284 **Material Description:** Tan Fibrous
Client No.: 22 **Location:** Room B-5

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	70	Cellulose	30

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Graciela Manjarres N.

Date: JAN 2001 Graciela Manjarres N., AIHA-AAP

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Crouter Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217285 **Material Description:** Tan Fibrous
Client No.: 23 **Location:** Room B-5

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	60	Cellulose	40

Lab No. 1217286 **Material Description:** Tan Fibrous
Client No.: 24 **Location:** Room B-5

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	65	Cellulose	35

Lab No. 1217287 **Material Description:** Tan Non Fibrous
Client No.: 25 **Location:** Exterior NE Corner Of Gym

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC Trace	Chrysotile	None Detected	None Detected	100

Lab No. 1217288 **Material Description:** Grey Window Caulk
Client No.: 26 **Location:** Outside B-5 S.E. Corner

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 5.5	Chrysotile	None Detected	None Detected	PC 94.5

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Gracielo Manjarres N.

Approved By: Frank Ehrenfeld

Date: [illegible]

Gracielo Manjarres N., AIHA-AAD [illegible]

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Crouter Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217289 **Material Description:** Sample Not Analyzed
Client No.: 27 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1217290 **Material Description:** Sample Not Analyzed
Client No.: 28 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1217291 **Material Description:** Grey Door Caulk
Client No.: 29 **Location:** S.W. Corner Of Bldg. Vestibule Near B-1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 5.0	Chrysotile	None Detected	None Detected	95

Lab No. 1217292 **Material Description:** Sample Not Analyzed
Client No.: 30 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does nat represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Graciela Manjarres N.

Approved By: Frank Ehrenfeld

Date: 2001 Graciela Manjarres N., AIHA-AAD ...

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Crouter Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217293
Client No.: 31

Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Graciela Manjarres N.

Approved By: Frank Ehrenfeld

Date: Graciela Manjarres N., AIHA-AAP

Frank E. Ehrenfeld, III
Laboratory Director

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center
PROJECT LOCATION: Mystic, CT Crouter Building
PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
19	Facing on 2x4 Fiberglass Ceiling Tile	12	17	281			Asbestos PLM EPA 600 positive stop	Corridor Near Paint Shop				
20	↓	12	17	282			↓	Corridor Near Room B-10				
21	↓	12	17	283			↓	Room B-10				
22	Ceiling Insulation	12	17	284			positive stop	Room B-5				
23	↓	12	17	285			↓	↓				
24	↓	12	17	286			↓	↓				
25	Door Frame Caulk	12	17	287				Exterior NE Corner of Gym				
26	Window Caulk	12	17	288			positive stop	Outside B-5 SE Corner				
27	↓	12	17	289			↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
ADDITIONAL COMMENTS:				2					
1/30	JAN 2[illegible]			3					
1/30				4		[illegible]		1/31/2001	

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Crouter Building

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
28	Window caulk	12	17	290			Asbestos PLM EPA 600	Outside B-5 SE Corner				
29	Door Frame Caulk	12	17	291			Positive stop	SW Corner of Bldg Vestibule Near B-1				
30	↓	12	17	292			↓	↓				
31	↓	12	17	293			↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
ADDITIONAL COMMENTS:				2					
				3					
				4					

APPENDIX C

Laboratory and Inspector Accreditations

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT - INSP/MGMT PLANNER

LICENSE NO.
000044

CURRENT THROUGH
02/28/01

VALIDATION NO.
00-321886

JAMES P. MCCARTHY

SIGNATURE

COMMISSIONER, DEPT. OF PUBLIC HEALTH

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

CHEMSCOPE, INC.
NORTH HAVEN, CT

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

BULK ASBESTOS FIBER ANALYSIS

March 31, 2002
Effective through

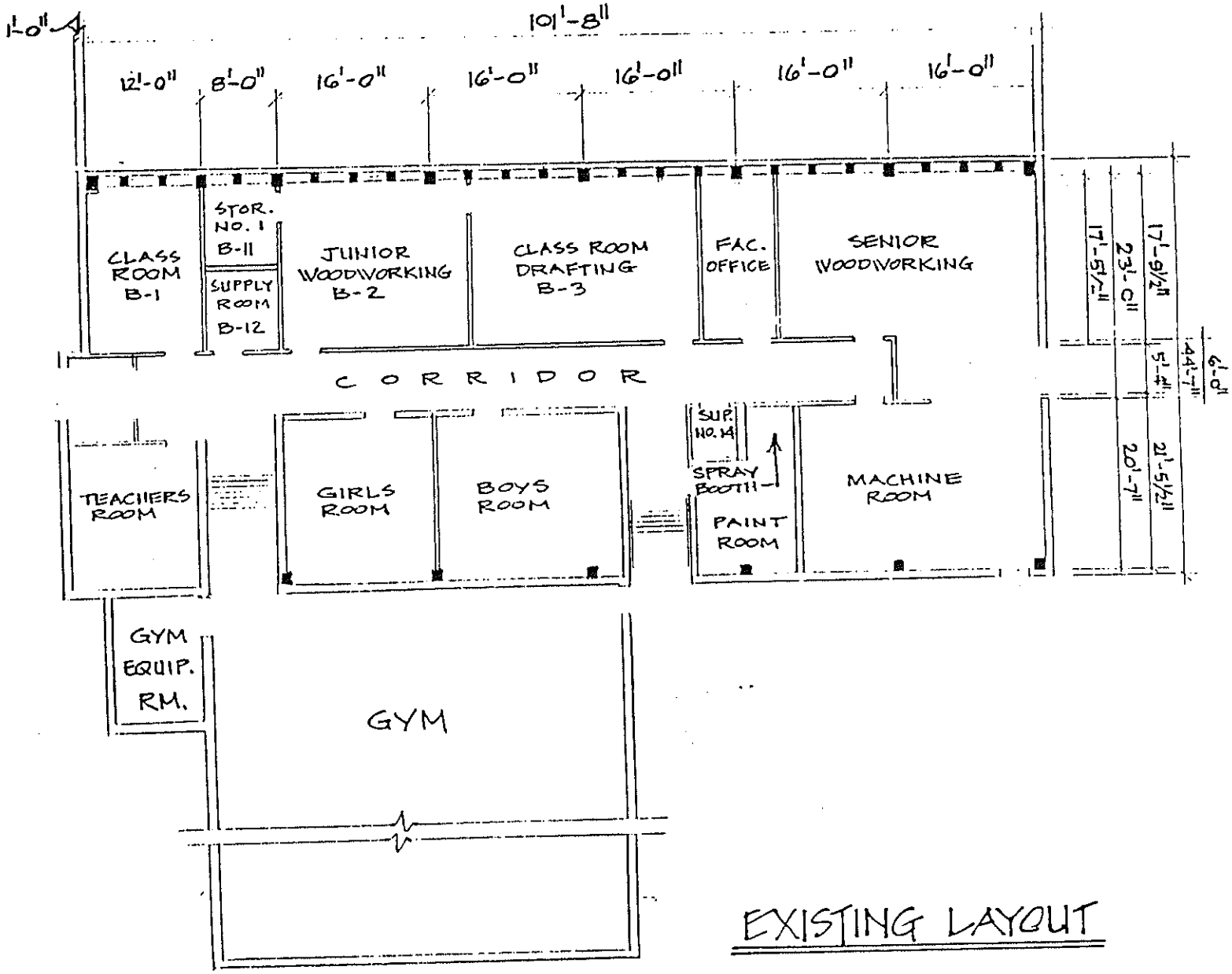
David F. Alderman
For the National Institute of Standards and Technology

NVLAP Lab Code: 101061-0

NVLAP-01C (11-95)

APPENDIX D

Building Diagrams



EXISTING LAYOUT

- DRAFT -

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
PRATT BUILDING (DPW Building 16943)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: March 2001

DELTA
ENVIRONMENTAL
SERVICES®, INC.

81 Schoolground Road
P.O. Box 564, Branford, CT
(203) 481-7668

- DRAFT -

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
PRATT BUILDING (DPW Building 16943)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: March 2001

DELTA ENVIRONMENTAL SERVICES®, INC.
81 Schoolground Road
P.O. Box 564, Branford, CT
(203) 481-7668

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3.1	Asbestos Sampling Procedures	1
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3.3	Asbestos Analytical Results	2
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TABLES

3-1 Bulk Sample Summary for Suspect Asbestos-Containing Materials

3-2 Asbestos-Containing Material

3-3 Non-Asbestos-Containing Material

5-1 Asbestos Abatement Cost Estimate

APPENDICES

APPENDIX A - Inventory of Identified Asbestos-Containing Material

APPENDIX B - Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

APPENDIX C - Laboratory and Inspector Accreditations

APPENDIX D - Building Diagrams

1.0 INTRODUCTION

This report summarizes the results of an asbestos and lead inspection conducted by DELTA Environmental Services, Inc. (DELTA) for the Pratt Building (DPW Building Number 16943) at the Mystic Education Center facility at 290 Oral School Road in Mystic, Connecticut. The project consisted of: review of available building records; physical inspection of the building to determine the quantities and locations of asbestos-containing materials (ACM); and bulk sampling of suspected asbestos-containing materials (ACM).

2.0 BUILDING DESCRIPTION

Mystic Education Center is a seven-building campus-type facility. The property consists of approximately 122 acres and 250,000 square feet of building floor space. The Pratt Building is a one-story 36,000± square foot masonry structure. The building was constructed in 1974 and consists of: a gymnasium, auditorium, swimming pool, bowling alley, locker rooms, a weight room, storage areas and a mechanical room. Room numbers referred to in this report correspond to the actual building room numbers posted on the doors. For reference, a copy of the architect's original building floor plan is included in Appendix D. **It is noted that the room numbers assigned on the floor plan do not correspond with the actual room numbers posted in the building.**

The building is heated by a forced hot air system. Two large Federal Boiler Company boilers are present in the mechanical room.

3.0 ASBESTOS SURVEY

3.1 Asbestos Sampling Procedures

Bulk samples of suspected ACM were collected by James P. McCarthy, P.E., of DELTA, a Connecticut Department of Public Health licensed inspector. Samples were collected using a clean knife or other appropriate tool after first wetting the material to be sampled to limit fiber release.

Samples were placed in dedicated sealable plastic bags and promptly transmitted to the analytical laboratory using strict chain of custody procedures. Sampling was performed in accordance with Environmental Protection Agency protocols, which require a minimum of three negative results in order to establish that a material does not contain asbestos.

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
PRATT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
1	1195591	Spray-Applied Fireproofing	Boiler Room Steel Beam Along Stairs to Main Floor	NAD
2	1195592	Spray-Applied Fireproofing	Boiler Room Steel Beam Along Ceiling	NAD
3	1195593	Spray-Applied Fireproofing	Boiler Room Steel Beam Along Ceiling	NAD
4	1195594	Tipping Cement on Fiberglass-Insulated Valve	Boiler Room at Base of Catwalk to Mezzanine	NAD
5	1195595	Boiler Breeching	East Boiler	NAD
6	1195596	Tipping Cement on Fiberglass-Insulated Heat Exchanger	Boiler Room Southeast Corner Near Air Compressor	NAD
7	1195597	Tipping Cement on Fiberglass-Insulated Valve	Boiler Room Northeast Corner	NAD
8	1195598	Pipe Fitting	Boiler Room Southeast Corner Heat Exchanger	NAD
9	1195599	Spray-Applied Fireproofing	Pool Filter Room Front (West Side)	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
PRATT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
10	1195600	Adhesive for Fiberglass Duct Insulation	Pool Filter Room	NAD
11	1195601	Adhesive for Fiberglass Duct Insulation	Pool Filter Room	NAD
12	1195602	Adhesive for Fiberglass Duct Insulation	Pool Filter Room	NAD
13	1200125	White 12" Floor Tile with Brown Streaks	Laundry Room 110	1.7% Chrysotile (Point Count)
D-1	1200172	Blind Duplicate of Floor Tile Sample 13	Laundry Room 110	3.0% Chrysotile (Point Count)
14	1200126	White 12" Floor Tile with Brown Streaks	Laundry Room 110	Not Analyzed*
15	1200127	White 12" Floor Tile with Brown Streaks	Laundry Room 110	Not Analyzed*
16	1200128	Mastic From White 12" Floor Tile with Brown Streaks	Laundry Room 110	NAD
17	1200129	Mastic From White 12" Floor Tile with Brown Streaks	Laundry Room 110	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
PRATT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
18	1200130	Mastic From White 12" Floor Tile with Brown Streaks	Laundry Room 110	NAD
19	1200131	Suspended Ceiling Tile Type 1 2' x 4'	Boys' Locker Room 112	NAD
20	1200132	Suspended Ceiling Tile Type 1 2' x 4'	Boys' Locker Room 112	NAD
21	1200133	Baseboard Molding Adhesive	Main Corridor	NAD
22	1200134	Baseboard Molding Adhesive	Main Corridor	NAD
23	1200135	Baseboard Molding Adhesive	Main Corridor	NAD
24	1200136	Red Floor Levelastic Carpet Glue	Atrium Near Auditorium 121	NAD NAD
25	1200137	Red Floor Levelastic Carpet Glue	Atrium Near Auditorium 121	NAD NAD
26	1200138	Red Floor Levelastic Carpet Glue	Atrium Near Auditorium 121	NAD NAD
27	1200139	Ceiling Tile 1' X 1' in Locking Metal Grid	Auditorium 121	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
PRATT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
D-2	1200173	Blind Duplicate of Ceiling Tile Sample 27	Auditorium 121	NAD
28	1200140	Ceiling Tile 1' X 1' in Locking Metal Grid	Auditorium 121	NAD
29	1200141	Ceiling Tile 1' X 1' in Locking Metal Grid	Auditorium 121	NAD
30	1200142	Building Paper/Insulation	Auditorium 121 Behind Decorative Wood Wainscoting	NAD
31	1200143	Building Paper/Insulation	Auditorium 121 Behind Decorative Wood Wainscoting	NAD
32	1200144	Building Paper/Insulation	Auditorium 121 Behind Decorative Wood Wainscoting	NAD
33	1200145	Glue Dots From 1' X 1' Ceiling Tile	Ceiling Access Panel in Auditorium 121 Balcony	NAD
34	1200146	Glue Dots From 1' X 1' Ceiling Tile	Ceiling Access Panel in Auditorium 121 Balcony	NAD
35	1200147	Glue Dots From 1' X 1' Ceiling Tile	Ceiling Access Panel in Auditorium 121 Balcony	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
PRATT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
D-3	1200174	Blind Duplicate of Glue Dot Sample 35	Ceiling Access Panel in Auditorium 121 Balcony	NAD
36	1200148	Pipe Fitting	Roof Drain in Fire Exit Corridor From Balcony of Auditorium 121	NAD
37	1200149	Pipe Fitting	Roof Drain in Fire Exit Corridor From Balcony of Auditorium 121	NAD
38	1200150	Pipe Fitting	Domestic Water Pipe in Stage Storage Room 122-A	NAD
39	1200151	Dark Yellow Stage Curtain	Auditorium 121 Stage	NAD
40	1200152	Dark Yellow Stage Curtain	Auditorium 121 Stage	NAD
41	1200153	Dark Yellow Stage Curtain	Auditorium 121 Stage	NAD
42	1200154	Tan Stage Curtain	Auditorium 121 Stage	NAD
43	1200155	Tan Stage Curtain	Auditorium 121 Stage	NAD
44	1200156	Tan Stage Curtain	Auditorium 121 Stage	NAD
45	1200157	Ceiling Plaster	Men's Room 102	NAD
46	1200158	Ceiling Plaster	Men's Room 102	NAD
47	1200159	Ceiling Plaster	Men's Room 102	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
PRATT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
48	1200160	Ceiling Surfacing	Main Atrium	NAD
49	1200161	Ceiling Surfacing	Main Atrium	NAD
50	1200162	Ceiling Surfacing	Main Atrium	NAD
51	1200163	Suspended Ceiling Tile Type 2 2' x 4'	Corridor Near Gymnasium	NAD
52	1200164	Suspended Ceiling Tile Type 2 2' x 4'	Corridor Near Gymnasium	NAD
53	1200165	Suspended Ceiling Tile Type 2 2' x 4'	Corridor Near Gymnasium	NAD
54	1200166	Pipe Fitting	Domestic Water Pipe Above Ceiling in Corridor	NAD
55	1200167	White 12" Floor Tile with Brown Streaks Mastic From Above	Bowling Alley Room 119	2.5% Chrysotile NAD
56	1200168	Tipping Cement	Roof Drain Pipe Clean-out	NAD
57	1200169	Carpet Adhesive	Auditorium 121	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
PRATT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
58	1200170	Carpet Adhesive	Auditorium 121	NAD
59	1200171	Carpet Adhesive	Auditorium 121	NAD

NOTE: "NAD" INDICATES NO ASBESTOS DETECTED

* EPA protocols consider one positive result as confirmation that a material contains asbestos. If the first sample of a material is found to contain asbestos, no further confirmation is necessary and any additional samples are therefore not analyzed.

3.2 Asbestos Analytical Procedures

Analysis was performed by International Asbestos Testing Laboratories, Inc. (IATL), Mt. Laurel, New Jersey, a National Institute of Standards and Technology accredited laboratory. Analysis was performed using Polarized Light Microscopy (PLM) Method EPA 600. Point counting was used to quantify asbestos content for all samples found to contain less than ten percent asbestos.

Blind duplicate samples were submitted to the analytical laboratory in order to confirm the reliability of results. Three duplicate sample was submitted, representing 5% of the total number of samples analyzed. The duplicate sample results (reference Table 3-1) showed the laboratory data to be consistent.

Sample D-1 was a duplicate of vinyl floor tile sample 13. The samples were found to contain 1.7% and 3.0% chrysotile asbestos, respectively. It appears that the differing results may be attributable to heterogeneous asbestos content within the sample media, rather than errors in quantification. Given the type of material, the asbestos content of floor tile is unlikely to be uniform, even within a single tile. The variation in results does not affect the classification of the material, since both results are well above 1% asbestos.

Sample D-2 was a duplicate of ceiling tile sample 27. Neither sample was found to contain asbestos.

Sample D-3 was a duplicate of glue dot sample 35. Neither sample was found to contain asbestos.

3.3 Asbestos Analytical Results

The results of recent bulk sampling performed by DELTA are summarized in Table 3-1. Laboratory data sheets are included in Appendix B.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: white 12" floor tile with brown streaks, present in the laundry room 110 (Room 110) and bowling alley (Room 119). The tile was found to contain 1.7 to 3.0% chrysotile asbestos. Mastic from the tile was found not to contain asbestos.

TABLE 3-2: ASBESTOS-CONTAINING MATERIAL PRATT BUILDING MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
HOMOGENEOUS AREA NUMBER	**MATERIAL DESCRIPTION**	**LOCATION**	**ASBESTOS TYPE AND CONTENT (%)**
1	White 12" Floor Tile with Brown Streaks	Laundry Room 110	3.0% chrysotile

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL
PRATT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

HOMOGENEOUS AREA NUMBER	MATERIAL DESCRIPTION	LOCATION	ASBESTOS TYPE AND CONTENT (%)
2	Spray-Applied Fireproofing	Boiler Room, Pool Filter Room	NAD
3	Tipping Cement on Fiberglass-Insulated Valves	Boiler Room	NAD
4	Boiler Breeching	Boiler Room	NAD
5	Pipe Fittings with Fiberglass Insulation	Throughout	NAD
6	Duct Insulation Adhesive	Pool Filter Room	NAD
7	Mastic From White 12" Floor Tile with Brown Streaks	Laundry Room 110	NAD
8	Suspended Ceiling Tile Type 1 2' X 4' Groove Pattern	Throughout Much of Building	NAD
9	Suspended Ceiling Tile Type 2 2' X 4' Groove and Pinhole Pattern	Used as Replacement Tiles in Limited Areas	NAD
10	Baseboard Molding Adhesive	Throughout	NAD
11	Red Floor Levelastic	Atrium Near Auditorium	NAD
12	Carpet Adhesive	Main Corridor	NAD
13	Spline Ceiling Tile - 1' X 1'	Auditorium 121	NAD

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL
PRATT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

14	Building Paper	Auditorium 121 Behind Decorative Wainscoting	NAD
15	Glue Dots From 1' X 1' Ceiling Tile	Auditorium 121 on Ceiling Access Panel	NAD
16	Yellow Stage Curtain	Auditorium 121	NAD
17	Tan Stage Curtain	Auditorium 121	NAD
18	Textured Ceiling Plaster	Bathrooms Near Auditorium	NAD
19	Ceiling Surfacing	Main Atrium	NAD

NOTE: NAD indicates "No Asbestos Detected"

The asbestos-containing tile is exposed. The tile is generally in good condition, and is unlikely to present a hazard unless it is actively disturbed. Any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile and mastic as asbestos.

Interior fire door core material in the building was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

Materials found not to contain asbestos included: spray-applied fireproofing material on beams and the ceiling deck of the mechanical room; spray-applied fireproofing material on the ceiling deck of the pool filter room; soft textured ceiling surfacing material in the main atrium; and mudded pipe fittings present on fiberglass-insulated plumbing throughout the building.

4.0 DISCUSSION AND RECOMMENDATIONS

The Pratt Building is a one-story 36,000± square foot masonry structure. The building was constructed in 1974 and consists of: a gymnasium, auditorium, swimming pool, bowling alley, locker rooms, a weight room, storage areas and a mechanical room. The building is heated by a forced hot air system. Two large Federal Boiler Company boilers are present in the mechanical room.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: white 12" floor tile with brown streaks, present in the laundry room 110 (Room 110) and bowling alley (Room 119). The tile was found to contain 1.7 to 3.0% chrysotile asbestos. Mastic from the tile was found not to contain asbestos.

The asbestos-containing tile is exposed. The tile is generally in good condition, and is unlikely to present a hazard unless it is actively disturbed. Any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile and mastic as asbestos.

Interior fire door core material in the building was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

Materials found not to contain asbestos included: spray-applied fireproofing material on beams and the ceiling deck of the mechanical room; spray-applied fireproofing material on the ceiling deck of the pool filter room; soft textured ceiling surfacing material in the main atrium; and mudded pipe fittings present on fiberglass-insulated plumbing throughout the building.

5.0 ESTIMATED COST FOR ASBESTOS ABATEMENT

A cost estimate for abatement of all identified asbestos-containing materials in the building is outlined in Table 5-1. The estimated cost for abatement of the building is $5,200. It should be noted that the cost estimate does not include removal of exterior materials such as roofing or window caulk. The cost estimate utilizes standard unit prices for removal of different types of asbestos-containing materials. When an actual asbestos abatement project is planned, a more precise estimate can be developed based on the specific work scope.

6.0. LIMITATIONS

The survey has the following limitations:

- DELTA's survey included an evaluation for the presence of asbestos-containing insulation on electrical equipment in the building. The inspection included building wiring, whips and fixtures. No suspect insulation was found. The inspection was designed to cover a representative portion of the building, since it was not feasible to examine all fixtures, junction boxes, etc.

- The survey did not utilize "destructive" sampling methods, and therefore may not have identified all of the asbestos-containing materials in the building. Specifically, the inspection did not include areas enclosed by walls or ceilings, unless these spaces could be accessed without damage.

- The survey did not include destructive sampling of furnishings such as chalkboards, corkboards, fire doors and benchtops.

TABLE 5-1: ASBESTOS ABATEMENT COST ESTIMATE
PRATT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT
(TOTAL ABATEMENT OF ASBESTOS-CONTAINING MATERIALS)

Building/Description	Quantity	Unit	Unit Cost	Subtotal Cost	Consultant (20%)	Contingency (10%)	Total Cost
REMOVAL							
Misc. (VAT/Mastic)	800	SF	$5.00	$4,000	$800	$400	$5,200
REPLACEMENT							
Misc. (VAT/Mastic)	N/A	N/A	N/A				
GRAND TOTAL				$4,000	$800	$400	$5,200
						ABATEMENT ESTIMATE:	**$5,200**

NOTE: TABLE DOES NOT INCLUDE ABATEMENT OF ANY EXTERIOR ASBESTOS SUCH AS WINDOW CAULK OR ROOFING.

- The survey attempted to access and identify asbestos-containing materials associated with HVAC and mechanical systems. However, such systems were not dismantled during the inspection. It is possible that boilers, furnaces, fan units and other devices may contain gaskets and other interior asbestos material which can only be accessed through dismantling them. Care should be taken to avoid the accidental disturbance of asbestos during maintenance or repair work on such devices.

APPENDIX A

Inventory of Identified Asbestos-Containing Material

PRATT BUILDING
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
110	LAUNDRY ROOM	1	12" WHITE FLOOR TILE	3%	100								
119	BOWLING ALLEY	1	12" WHITE FLOOR TILE	3%	700								

APPENDIX B

Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/20/2000
Project: Mystic Education Center, 12-12-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1195591 **Material Description:** Tan Insulation
Client No.: 1P **Location:** Beam Along Stairs Boiler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	5	Cellulose	10
		85	Mineral Wool	

Lab No. 1195592 **Material Description:** Tan Insulation
Client No.: 2P **Location:** Beam Along Boiler Room Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	5	Cellulose	15
		80	Mineral Wool	

Lab No. 1195593 **Material Description:** Tan Insulation
Client No.: 3P **Location:** Beam Along Boiler Room Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	2	Cellulose	23
		75	Mineral Wool	

Lab No. 1195594 **Material Description:** Tan Insulation
Client No.: 4P **Location:** Boiler Room At Base OfCatwalkToMezzanine

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	25	Mineral Wool	75

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By:

Date: DEC 19 2000

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/20/2000
Project: Mystic Education Center, 12-12-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1195595 **Material Description:** Tan Insulation
Client No.: 5P **Location:** East Boiler

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	10	Cellulose	65
		25	Mineral Wool	

Lab No. 1195596 **Material Description:** Tan Insulation
Client No.: 6P **Location:** Boiler Room S.E. Corner Near AirComp.

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	70
		30	Mineral Wool	

Lab No. 1195597 **Material Description:** Tan Insulation
Client No.: 7P **Location:** Boiler Room N.E. Corner

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	70
		30	Mineral Wool	

Lab No. 1195598 **Material Description:** Tan Insulation
Client No.: 8P **Location:** HeatExchanger;Boiler Room; S.E. Corner

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Mineral Wool	70

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By:

Date: DEC 19 2000

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/20/2000
Project: Mystic Education Center, 12-12-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1195599 **Material Description:** Lt.Tan Insulation
Client No.: 9P **Location:** Pool Filter Room Front (West Side)

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	15
		85	Mineral Wool	

Lab No. 1195600 **Material Description:** White/Silver/Yellow
Client No.: 10P **Location:** Wrap/Insulation Pool Filter Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	45
		10	Fibrous Glass	
		5	Mineral Wool	

Lab No. 1195601 **Material Description:** White/Silver/Yellow
Client No.: 11P **Location:** Wrap/Insulation Pool Filter Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Cellulose	35
		10	Fibrous Glass	
		10	Mineral Wool	

Lab No. 1195602 **Material Description:** White/Silver/Yellow
Client No.: 12P **Location:** Wrap/Insulation Pool Filter Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	30
		20	Fibrous Glass	
		20	Mineral Wool	

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By:

Date:

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08051
Telephone: 609.231.9449 Fax: 609.231.9818

972/8

- Chain of Custody -

Client: Delta Environmental Services
P.O. Box 564
Branford, CT 06405

Project Name: Mystic Education Center
Project No.: D97-148-24

Phone: (203) 481-7668
FAX: (203) 488-8164

Contact:
Pager:

Special Instructions:

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[✓] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400
[ ] PCM : OSHA
[ ] PCM : Other_____

[ ] AAS : NIOSH 7082 (Air)
[ ] AAS : Lead in Drinking Water
[ ] AAS : Lead in Paint ASTM D3335-85a
[ ] AAS : Lead Dust/Wipe
[ ] AAS : Other Metals / Soil_____

[✓] PLM : Bulk Asbestos EPA 600
[ ] PLM : Point Counting 198.1
[ ] PLM : NOB via 198.1 (PLM only)
[ ] If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements **
(**call to confirm TAT!)

[ ] TEM : AHERA
[ ] TEM : NIOSH 7402
[ ] TEM : EPA Level II
[ ] TEM : Microvac Dust
[ ] TEM : Asbestos in Water
[ ] TEM : Bulk Analysis
[ ] TEM : NOB 198.4
[ ] TEM : Other_____
[ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ date / time Verbals: _____ date / time

[ ] 10 Day [ ] 5 Day [✓] 72 hour [ ] 48 hour [ ] 24 hour [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): 1p - 12p, 1c - 18c, 1d - 8d (start) (end) IATL#(s): _____ (start) - _____ (end) Total: ___

Chain of Custody:

Relinquished:	James R. Mulatz	Date: 12/12/00	Time: 4:20 p.m.
Received:		Date:	Time:
Sample Log-in:	[illegible]	Date: 12/16/00	Time: 0855
Sample Prep:		Date: 12/19/00	Time:
Analyzed:		Date:	Time:
QA/QC Review:	[illegible] 12/27/00	Date: 14	Time:

Archived/Released:_____ QA/QC InterLAB Use:_____ Date:_____ Time:_____

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Pratt Building

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
1p	Spray-on Fireproofing						Asbestos PLM EPA 600 1195591	Beam Along Stairs Boiler Room				
2p	↓						1195592	Beam along Boiler Room Ceiling				
3p	↓						1195593	↓				
4p	Valve Fitting Cement						1195594	Boiler Room at base of Catwalk to Mezzanine				
5p	Gasketing						1195595	Ewt Boiler				
6p	Fitting Cement on Heat Exchanger						1195596	Boiler Room SE Corner Near Air Compressor				
7p	Valve Fitting Cement						1195597	Boiler Room NE Corner				
8p	Elbow Fitting						1195598	Heat Exchanger Boiler Room SE Corner				
9p	Spray-on Fireproofing						1195599	Roof Filter Room Front (West side)				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Malatts	Delta			1		James R Malatts			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
10?	Duct Insulation Adhesive						Asbestos PLM EPA 600 1195600 (Please use Negative Stain)	2001 Filter Room				
11?	↓						1195601 ↓	↓				
12?	↓						1195602 ↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melatts	Delta			1		James R Melatts			
ADDITIONAL COMMENTS:				2					
				3					
				4					

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/28/2000
Project: MysticEd.Ctr.; Pratt Bldg., 12-19-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200125 **Material Description:** Off-White Floor Tile
Client No.: 13 **Location:** 12"; Laundry Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.7	Chrysotile	None Detected	None Detected	PC 98.3

Lab No. 1200126 **Material Description:** Sample Not Analyzed
Client No.: 14 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1200127 **Material Description:** Sample Not Analyzed
Client No.: 15 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1200128 **Material Description:** Black Mastic
Client No.: 16 **Location:** A/W 12" Tile Laundry Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: Becky Huntzinger
Becky Huntzinger

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

Date: DEC 27 2000

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Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200129 **Material Description:** Black Mastic
Client No.: 17 **Location:** A/W 12" Tile Laundry Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200130 **Material Description:** Black Mastic
Client No.: 18 **Location:** A/W 12" Tile Laundry Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200131 **Material Description:** Grey/White
Client No.: 19 **Location:** Ceiling Tile 2x4;BoysLockerRm112

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Fibrous Glass	20
		35	Cellulose	

Lab No. 1200132 **Material Description:** Grey/White
Client No.: 20 **Location:** Ceiling Tile 2x4;BoysLockerRm112

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Fibrous Glass	20
		35	Cellulose	

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: Becky Huntzinger

Date: DEC 27 2000 Becky Huntzinger

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

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Report Date: 12/28/2000
Project: MysticEd.Ctr.; Pratt Bldg., 12-19-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200133 **Material Description:** Brown/Black Rubber
Client No.: 21 **Location:** Brown Mastic Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200133 **Material Description:** Brown/Black Rubber
Client No.: 21 **Location:** Brown Mastic Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Brown Mastic
From Above

Lab No. 1200134 **Material Description:** Brown/Black Rubber
Client No.: 22 **Location:** Brown Mastic Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200134 **Material Description:** Brown/Black Rubber
Client No.: 22 **Location:** Brown Mastic Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Brown Mastic
From Above

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: Becky Huntzinger
Becky Huntzinger

Date: DEC 27 2000

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

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Report Date: 12/28/2000
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Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200135 **Material Description:** Brown/Black Rubber
Client No.: 23 **Location:** Brown Mastic Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200135 **Material Description:** Brown/Black Rubber
Client No.: 23 **Location:** Brown Mastic Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Brown Mastic
From Above

Lab No. 1200136 **Material Description:** Red Leveler
Client No.: 24 **Location:** Tan Mastic CorridorByAuditorium

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200136 **Material Description:** Red Leveler
Client No.: 24 **Location:** Tan Mastic CorridorByAuditorium

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Tan Mastic
From Above

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: Becky Huntzinger
Becky Huntzinger

Date: DEC 27 2000

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
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Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200137 **Material Description:** Red Leveler
Client No.: 25 **Location:** Tan Mastic CorridorByAuditorium

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200137 **Material Description:** Red Leveler
Client No.: 25 **Location:** Tan Mastic CorridorByAuditorium

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Tan Mastic
From Above

Lab No. 1200138 **Material Description:** Red Leveler
Client No.: 26 **Location:** Tan Mastic CorridorByAuditorium

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200138 **Material Description:** Red Leveler
Client No.: 26 **Location:** Tan Mastic CorridorByAuditorium

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Tan Mastic
From Above

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: John Harding

Date: DEC 27 2000

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
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Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200139 **Material Description:** Tan/White
Client No.: 27 **Location:** Ceiling Tile 1x1; Auditorium 121

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Mineral Wool	30
		25	Cellulose	

Lab No. 1200140 **Material Description:** Tan/White
Client No.: 28 **Location:** Ceiling Tile 1x1; Auditorium 121

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Mineral Wool	30
		30	Cellulose	

Lab No. 1200141 **Material Description:** Tan/White
Client No.: 29 **Location:** Ceiling Tile 1x1; Auditorium 121

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	50	Mineral Wool	30
		20	Cellulose	

Lab No. 1200142 **Material Description:** Black Fibrous
Client No.: 30 **Location:** Auditorium121 Behind Decorative Wood

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Fibrous Glass	60

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: _____

Date: DEC 27 2000

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

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Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200143 **Material Description:** Black Fibrous
Client No.: 31 **Location:** Auditorium121 Behind Decorative Wood

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Fibrous Glass	55

Lab No. 1200144 **Material Description:** Black Fibrous
Client No.: 32 **Location:** Auditorium121 Behind Decorative Wood

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	90	Fibrous Glass	10

Lab No. 1200145 **Material Description:** Brown Mastic
Client No.: 33 **Location:** On Access Panels Auditorium121Balcony

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200146 **Material Description:** Brown Mastic
Client No.: 34 **Location:** On Access Panels Auditorium121Balcony

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: _____

Date: DEC 27 2000

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

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Report Date: 12/28/2000
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Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200147 **Material Description:** Brown Mastic
Client No.: 35 **Location:** On Access Panels Auditorium121Balcony

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200148 **Material Description:** Tan Insulation
Client No.: 36 **Location:** RoofDrain InFireExit CorridorFromBalcony

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Mineral Wool	70

Lab No. 1200149 **Material Description:** Tan Insulation
Client No.: 37 **Location:** RoofDrain InFireExit CorridorFromBalcony

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	35	Mineral Wool	65

Lab No. 1200150 **Material Description:** Tan Insulation
Client No.: 38 **Location:** Water Pipe In Stage Storage Room 122-A

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	35	Mineral Wool	65

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: _____

Date: DEC 27 2000

Approved By: _____

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Laboratory Director

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Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200151 **Material Description:** Yellow Fibrous
Client No.: 39 **Location:** Auditorium Stage Stage Curtain

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	98	Cellulose	2

Lab No. 1200152 **Material Description:** Yellow Fibrous
Client No.: 40 **Location:** Auditorium Stage Stage Curtain

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	98	Cellulose	2

Lab No. 1200153 **Material Description:** Yellow Fibrous
Client No.: 41 **Location:** Auditorium Stage Stage Curtain

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	98	Cellulose	2

Lab No. 1200154 **Material Description:** Tan Fibrous
Client No.: 42 **Location:** Auditorium Stage Stage Curtain

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	98	Cellulose	2

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Analysis Performed By: [signature]

Date: 2 7 2000

Approved By: [signature]

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Laboratory Director

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Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200155 **Material Description:** Tan Fibrous
Client No.: 43 **Location:** Auditorium Stage Stage Curtain

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	98	Cellulose	2

Lab No. 1200156 **Material Description:** Tan Fibrous
Client No.: 44 **Location:** Auditorium Stage Stage Curtain

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	98	Cellulose	2

Lab No. 1200157 **Material Description:** White Plaster
Client No.: 45 **Location:** Men's Room 102 Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200158 **Material Description:** White Plaster
Client No.: 46 **Location:** Men's Room 102 Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

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Analysis Performed By: V. Kovacs

Date: DEC 27 2000

Approved By: Frank Ehrenfeld

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Laboratory Director

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Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200159 **Material Description:** White Plaster
Client No.: 47 **Location:** Men's Room 102 Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200160 **Material Description:** Tan Fibrous
Client No.: 48 **Location:** Main Atrium Spray-On Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	70	Mineral Wool	30

Lab No. 1200161 **Material Description:** Tan Fibrous
Client No.: 49 **Location:** Main Atrium Spray-On Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	70	Mineral Wool	30

Lab No. 1200162 **Material Description:** Tan Fibrous
Client No.: 50 **Location:** Main Atrium Spray-On Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	70	Mineral Wool	30

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By:

Date: DEC 2 7 2000

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

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Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200163 **Material Description:** Tan/WhiteCeilingTile
Client No.: 51 **Location:** 2x4; Type2; Corridor Near Gymnasium

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Mineral Wool	30
		25	Cellulose	

Lab No. 1200164 **Material Description:** Tan/WhiteCeilingTile
Client No.: 52 **Location:** 2x4; Type2; Corridor Near Gymnasium

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	50	Mineral Wool	30
		20	Cellulose	

Lab No. 1200165 **Material Description:** Tan/WhiteCeilingTile
Client No.: 53 **Location:** 2x4; Type2; Corridor Near Gymnasium

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Mineral Wool	30
		25	Cellulose	

Lab No. 1200166 **Material Description:** Tan Insulation
Client No.: 54 **Location:** Domestic Water Pipe Abv.Ceiling;Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Mineral Wool	70

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: John Horemzo

Date: 2000

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

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Report Date: 12/28/2000
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Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200167 **Material Description:** Tan Floor Tile
Client No.: 55 **Location:** Black Mastic BowlingAlley; Rm.119

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.5	Chrysotile	None Detected	None Detected	PC 97.5

Lab No. 1200167 **Material Description:** Tan Floor Tile
Client No.: 55 **Location:** Black Mastic BowlingAlley; Rm.119

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Black Mastic				
From Above				

Lab No. 1200168 **Material Description:** Tan Insulation
Client No.: 56 **Location:** RoofDrain; Room122-A Storage

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	35	Mineral Wool	65

Lab No. 1200169 **Material Description:** Tan/Red
Client No.: 57 **Location:** NonFibrous/Mastic Auditorium 121

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: John Haremza

Date: DEC 2 7 2000

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/28/2000
Project: MysticEd.Ctr.; Pratt Bldg., 12-19-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200170 **Material Description:** Lt.Green/Tan Mastic
Client No.: 58 **Location:** Auditorium 121

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200171 **Material Description:** Lt.Green/Tan Mastic
Client No.: 59 **Location:** Auditorium 121

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200172 **Material Description:** Tan Floor Tile
Client No.: D-1 **Location:** Black Mastic

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.0	Chrysotile	None Detected	None Detected	97

Lab No. 1200172 **Material Description:** Tan Floor Tile
Client No.: D-1 **Location:** Black Mastic

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Black Mastic				
From Above				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: [signature]

Date: DEC 27 2000

Approved By: [signature]

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/28/2000
Project: MysticEd.Ctr.; Pratt Bldg., 12-19-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200173 **Material Description:** Tan/White
Client No.: D-2 **Location:** Ceiling Tile

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Mineral Wool	30
		30	Cellulose	

Lab No. 1200174 **Material Description:** Brown Mastic
Client No.: D-3 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	5	Other	94
		1	Wollastonite	

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By:

Date: DEC 27 2000

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 609.231.9449 Fax: 609.231.9818

4/72/8

- Chain of Custody -

Client: Delta Environmental Services
P.O. Box 564
Branford, CT 06405

Project Name: Mystic Education Center
Project No.: Pratt Building
D97-148-24

Phone: (203) 481-7668
FAX: (203) 488-8164

Contact: Jim McCarthy
Pager:

Special Instructions:

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[✓] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400	[✓] PLM : Bulk Asbestos EPA 600	[ ] TEM : AHERA
[ ] PCM : OSHA	[ ] PLM : Point Counting 198.1	[ ] TEM : NIOSH 7402
[ ] PCM : Other_____	[ ] PLM : NOB via 198.1 (PLM only)	[ ] TEM : EPA Level II
	[ ] If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements ** (**call to confirm TAT!)	[ ] TEM : Microvac Dust
[ ] AAS : NIOSH 7082 (Air)		[ ] TEM : Asbestos in Water
[ ] AAS : Lead in Drinking Water		[ ] TEM : Bulk Analysis
[ ] AAS : Lead in Paint ASTM D3335-85a		[ ] TEM : NOB 198.4
[ ] AAS : Lead Dust/Wipe		[ ] TEM : Other_____
[ ] AAS : Other Metals / Soil_____		[ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ (date / time) Verbals: _____ (date / time)

[ ] 10 Day [ ] 5 Day [✓] 72 hour [ ] 48 hour [ ] 24 hour [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): D-13 (start) - D-39 (end)

IATL#(s): _____ (start) - _____ (end) Total: ___

Chain of Custody:

Relinquished:	James P. McCarthy	Date: 12/19/02	Time: 5:15 PM
Received:		Date:	Time:
Sample Log-in:	[illegible]	Date:	Time:
Sample Prep:		Date:	Time:
Analyzed:	[illegible]	Date: 12-27-02	Time:
QA/QC Review:	[illegible] DEC 22	Date: 01/03/03	Time:

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center
PROJECT LOCATION: Mystic, CT Pratt Building
PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
13	White 12" Floor Tile with Brown Streaks				1200125		Asbestos PLM EPA 600 Please use positive stop	Laundry Room 110				
14	↓				1200126		↓	↓				
15	↓				1200127		↓	↓				
16	Mastic From White 12" Floor Tile				1200128		Please use positive stop					
17	↓				1200129		↓	↓				
18	↓				1200130		↓	↓				
19	2x4 Suspended Ceiling Tile				1200131		Please use positive stop	Boys Locker Room 112				
20	↓				1200132		↓	↓				
21	Baseboard Molding/Adhesive				1200133			Corridor				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

DELTA Environmental Services,® Inc.

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Pratt Building

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
22	Baseboard Molding/Adhesive				1200134		Asbestos PLM EPA 600 Please use positive stop	Corridor				
23	↓				1200135		↓	↓				
24	Red Floor Levelastic/ Carpet Glue				1200136		Please use positive stop	Corridor Near Auditorium 121				
25	↓				1200137		↓	↓				
26	↓				1200138		↓	↓				
27	1x1 Ceiling Tile				1200139		Please use positive stop	Auditorium 121				
28	↓				1200140		↓	↓				
29	↓				1200141		↓	↓				
30	Building Paper/ Insulation				1200142			Auditorium 121 Behind Decorative wood siding				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

DELTA Environmental Services,® Inc.

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Pratt Building

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
31	Building Paper/ Insulation				1200143		Asbestos PLM EPA 600 Please use positive stop	Auditorium 121 behind decorative wood siding				
32	↓				1200144		↓	↓				
33	Glue Dots From Ceiling Tile				1200145		Please use positive stop	On Access Panel Auditorium 121 Balcony				
34	↓				1200146		↓	↓				
35	↓				1200147		↓	↓				
36	Pipe Fitting				1200148		Please use positive stop	Roof Drain in Fire Exit Corridor From Balcony of Auditorium				
37	↓				1200149		↓	↓				
38	↓				1200150			Water Pipe in Stage Storage Room 122-A				
39	Dark Yellow Stage Curtain				1200151			Auditorium Stage				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P Melatts	Delta			1		James P Melatts			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

DELTA Environmental Services,® Inc.

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
40	Dark Yellow Stage Curtain				1200152		Asbestos PLM EPA 600 Please use positive stop	Auditorium Stage				
41	↓				1200153		↓	↓				
42	Tan Stage Curtain				1200154		Please use positive stop					
43	↓				1200155		↓	↓				
44	↓				1200156		↓	↓				
45	Ceiling Plaster				1200157		Please use positive stop	Men's Room 102				
46	↓				1200158		↓	↓				
47	↓				1200159		↓	↓				
48	Second-on Ceiling Surfacing				1200160			Main Atrium				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melnotte	Delta			1		James R Melnotte			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-14B-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
49	Spray-on Ceiling Surfacing				1200161		Asbestos PLM EPA 600 Please use positive stop	Main Atrium				
50	↓				1200162		↓	↓				
51	2x4 Suspended Ceiling Tile-Type 2				1200163		Please use positive stop	Corridor Near Gymnasium				
52	↓				1200161		↓	↓				
53	↓				1200165		↓	↓				
54	Pipe Fitting				1200166			Domestic Water Pipe above Ceiling in Corridor				
55	White 12" Floor Tile				1200167			Bowling Alley Room 119				
56	Tipping Cement on Clean-Out				1200168			Roof Drain Room 122-A Storage				
57	Green Carpet Mastic				1200169			Auditorium 121				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P. McLaughlin	Delta			1		James P. McLaughlin			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

DELTA Environmental Services,® Inc.

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
S8	Green Corner Mystic				1200170		Asbestos PLM EPA 600 Please use positive stop	Auditorium 121				
S9	↓				1200171		↓	↓				
D-1					1200172							
D-2					1200173							
D-3					1200174							

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melotto	Delta			1		James R Melotto			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

APPENDIX C

Laboratory and Inspector Accreditations

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT - INSP/MGMT PLANNER

LICENSE NO.
000044
CURRENT THROUGH
02/28/01
VALIDATION NO.
00-321886

JAMES P. MCCARTHY

James P. McCarthy
SIGNATURE

COMMISSIONER DEPT. OF PUBLIC HEALTH

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

CHEMSCOPE, INC.
NORTH HAVEN, CT

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

BULK ASBESTOS FIBER ANALYSIS

March 31, 2002
Effective through

David F. Alderman
For the National Institute of Standards and Technology

NVLAP Lab Code: 101061-0

NVLAP-01C (11-95)

APPENDIX D

Building Diagrams

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
PRATT BUILDING (DPW Building 16943)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: November 2001

DELTA
ENVIRONMENTAL
SERVICES®, INC.

81 Schoolground Road
P.O. Box 564, Branford, CT
(203) 481-7668

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
PRATT BUILDING (DPW Building 16943)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: November 2001

DELTA
ENVIRONMENTAL
SERVICES®, INC.

81 Schoolground Road
P.O. Box 564, Branford, CT
(203) 481-7668

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3.1	Asbestos Sampling Procedures	1
3.2	Asbestos Analytical Procedures	2
3.3	Asbestos Analytical Results	2
4.0	Discussion and Recommendations	3
5.0	Estimated Cost For Asbestos Abatement	3
6.0	Limitations	4

TABLES

3-1 Bulk Sample Summary for Suspect Asbestos-Containing Materials

3-2 Asbestos-Containing Material

3-3 Non-Asbestos-Containing Material

5-1 Asbestos Abatement Cost Estimate

APPENDICES

APPENDIX A - Inventory of Identified Asbestos-Containing Material

APPENDIX B - Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

APPENDIX C - Laboratory and Inspector Accreditations

APPENDIX D - Building Diagrams

1.0 INTRODUCTION

This report summarizes the results of an asbestos and lead inspection conducted by DELTA Environmental Services, Inc. (DELTA) for the Pratt Building (DPW Building Number 16943) at the Mystic Education Center facility at 290 Oral School Road in Mystic, Connecticut. The project consisted of: review of available building records; physical inspection of the building to determine the quantities and locations of asbestos-containing materials (ACM); and bulk sampling of suspected asbestos-containing materials (ACM).

2.0 BUILDING DESCRIPTION

Mystic Education Center is a seven-building campus-type facility. The property consists of approximately 122 acres and 250,000 square feet of building floor space. The Pratt Building is a one-story 36,000± square foot masonry structure. The building was constructed in 1974 and consists of: a gymnasium, auditorium, swimming pool, bowling alley, locker rooms, a weight room, storage areas and a mechanical room. Room numbers referred to in this report correspond to the actual building room numbers posted on the doors. For reference, a copy of the architect's original building floor plan is included in Appendix D. **It is noted that the room numbers assigned on the floor plan do not correspond with the actual room numbers posted in the building.**

The building is heated by a forced hot air system. Two large Federal Boiler Company boilers are present in the mechanical room.

3.0 ASBESTOS SURVEY

3.1 Asbestos Sampling Procedures

Bulk samples of suspected ACM were collected by James P. McCarthy, P.E., of DELTA, a Connecticut Department of Public Health licensed inspector. Samples were collected using a clean knife or other appropriate tool after first wetting the material to be sampled to limit fiber release.

Samples were placed in dedicated sealable plastic bags and promptly transmitted to the analytical laboratory using strict chain of custody procedures. Sampling was performed in accordance with Environmental Protection Agency protocols, which require a minimum of three negative results in order to establish that a material does not contain asbestos.

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
PRATT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
1	1195591	Spray-Applied Fireproofing	Boiler Room Steel Beam Along Stairs to Main Floor	NAD
2	1195592	Spray-Applied Fireproofing	Boiler Room Steel Beam Along Ceiling	NAD
3	1195593	Spray-Applied Fireproofing	Boiler Room Steel Beam Along Ceiling	NAD
4	1195594	Tipping Cement on Fiberglass-Insulated Valve	Boiler Room at Base of Catwalk to Mezzanine	NAD
5	1195595	Boiler Breeching	East Boiler	NAD
6	1195596	Tipping Cement on Fiberglass-Insulated Heat Exchanger	Boiler Room Southeast Corner Near Air Compressor	NAD
7	1195597	Tipping Cement on Fiberglass-Insulated Valve	Boiler Room Northeast Corner	NAD
8	1195598	Pipe Fitting	Boiler Room Southeast Corner Heat Exchanger	NAD
9	1195599	Spray-Applied Fireproofing	Pool Filter Room Front (West Side)	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
PRATT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
10	1195600	Adhesive for Fiberglass Duct Insulation	Pool Filter Room	NAD
11	1195601	Adhesive for Fiberglass Duct Insulation	Pool Filter Room	NAD
12	1195602	Adhesive for Fiberglass Duct Insulation	Pool Filter Room	NAD
13	1200125	White 12" Floor Tile with Brown Streaks	Laundry Room 110	1.7% Chrysotile (Point Count)
D-1	1200172	Blind Duplicate of Floor Tile Sample 13	Laundry Room 110	3.0% Chrysotile (Point Count)
14	1200126	White 12" Floor Tile with Brown Streaks	Laundry Room 110	Not Analyzed*
15	1200127	White 12" Floor Tile with Brown Streaks	Laundry Room 110	Not Analyzed*
16	1200128	Mastic From White 12" Floor Tile with Brown Streaks	Laundry Room 110	NAD
17	1200129	Mastic From White 12" Floor Tile with Brown Streaks	Laundry Room 110	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
PRATT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
18	1200130	Mastic From White 12" Floor Tile with Brown Streaks	Laundry Room 110	NAD
19	1200131	Suspended Ceiling Tile Type 1 2' x 4'	Boys' Locker Room 112	NAD
20	1200132	Suspended Ceiling Tile Type 1 2' x 4'	Boys' Locker Room 112	NAD
21	1200133	Baseboard Molding Adhesive	Main Corridor	NAD
22	1200134	Baseboard Molding Adhesive	Main Corridor	NAD
23	1200135	Baseboard Molding Adhesive	Main Corridor	NAD
24	1200136	Red Floor Levelastic Carpet Glue	Atrium Near Auditorium 121	NAD NAD
25	1200137	Red Floor Levelastic Carpet Glue	Atrium Near Auditorium 121	NAD NAD
26	1200138	Red Floor Levelastic Carpet Glue	Atrium Near Auditorium 121	NAD NAD
27	1200139	Ceiling Tile 1' X 1' in Locking Metal Grid	Auditorium 121	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
PRATT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
D-2	1200173	Blind Duplicate of Ceiling Tile Sample 27	Auditorium 121	NAD
28	1200140	Ceiling Tile 1' X 1' in Locking Metal Grid	Auditorium 121	NAD
29	1200141	Ceiling Tile 1' X 1' in Locking Metal Grid	Auditorium 121	NAD
30	1200142	Building Paper/Insulation	Auditorium 121 Behind Decorative Wood Wainscoting	NAD
31	1200143	Building Paper/Insulation	Auditorium 121 Behind Decorative Wood Wainscoting	NAD
32	1200144	Building Paper/Insulation	Auditorium 121 Behind Decorative Wood Wainscoting	NAD
33	1200145	Glue Dots From 1' X 1' Ceiling Tile	Ceiling Access Panel in Auditorium 121 Balcony	NAD
34	1200146	Glue Dots From 1' X 1' Ceiling Tile	Ceiling Access Panel in Auditorium 121 Balcony	NAD
35	1200147	Glue Dots From 1' X 1' Ceiling Tile	Ceiling Access Panel in Auditorium 121 Balcony	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
PRATT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
D-3	1200174	Blind Duplicate of Glue Dot Sample 35	Ceiling Access Panel in Auditorium 121 Balcony	NAD
36	1200148	Pipe Fitting	Roof Drain in Fire Exit Corridor From Balcony of Auditorium 121	NAD
37	1200149	Pipe Fitting	Roof Drain in Fire Exit Corridor From Balcony of Auditorium 121	NAD
38	1200150	Pipe Fitting	Domestic Water Pipe in Stage Storage Room 122-A	NAD
39	1200151	Dark Yellow Stage Curtain	Auditorium 121 Stage	NAD
40	1200152	Dark Yellow Stage Curtain	Auditorium 121 Stage	NAD
41	1200153	Dark Yellow Stage Curtain	Auditorium 121 Stage	NAD
42	1200154	Tan Stage Curtain	Auditorium 121 Stage	NAD
43	1200155	Tan Stage Curtain	Auditorium 121 Stage	NAD
44	1200156	Tan Stage Curtain	Auditorium 121 Stage	NAD
45	1200157	Ceiling Plaster	Men's Room 102	NAD
46	1200158	Ceiling Plaster	Men's Room 102	NAD
47	1200159	Ceiling Plaster	Men's Room 102	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
PRATT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
48	1200160	Ceiling Surfacing	Main Atrium	NAD
49	1200161	Ceiling Surfacing	Main Atrium	NAD
50	1200162	Ceiling Surfacing	Main Atrium	NAD
51	1200163	Suspended Ceiling Tile Type 2 2' x 4'	Corridor Near Gymnasium	NAD
52	1200164	Suspended Ceiling Tile Type 2 2' x 4'	Corridor Near Gymnasium	NAD
53	1200165	Suspended Ceiling Tile Type 2 2' x 4'	Corridor Near Gymnasium	NAD
54	1200166	Pipe Fitting	Domestic Water Pipe Above Ceiling in Corridor	NAD
55	1200167	White 12" Floor Tile with Brown Streaks Mastic From Above	Bowling Alley Room 119	2.5% Chrysotile NAD
56	1200168	Tipping Cement	Roof Drain Pipe Clean-out	NAD
57	1200169	Carpet Adhesive	Auditorium 121	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
PRATT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
58	1200170	Carpet Adhesive	Auditorium 121	NAD
59	1200171	Carpet Adhesive	Auditorium 121	NAD

NOTE: "NAD" INDICATES NO ASBESTOS DETECTED

* EPA protocols consider one positive result as confirmation that a material contains asbestos. If the first sample of a material is found to contain asbestos, no further confirmation is necessary and any additional samples are therefore not analyzed.

3.2 Asbestos Analytical Procedures

Analysis was performed by International Asbestos Testing Laboratories, Inc. (IATL), Mt. Laurel, New Jersey, a National Institute of Standards and Technology accredited laboratory. Analysis was performed using Polarized Light Microscopy (PLM) Method EPA 600. Point counting was used to quantify asbestos content for all samples found to contain less than ten percent asbestos.

Blind duplicate samples were submitted to the analytical laboratory in order to confirm the reliability of results. Three duplicate sample was submitted, representing 5% of the total number of samples analyzed. The duplicate sample results (reference Table 3-1) showed the laboratory data to be consistent.

Sample D-1 was a duplicate of vinyl floor tile sample 13. The samples were found to contain 1.7% and 3.0% chrysotile asbestos, respectively. It appears that the differing results may be attributable to heterogeneous asbestos content within the sample media, rather than errors in quantification. Given the type of material, the asbestos content of floor tile is unlikely to be uniform, even within a single tile. The variation in results does not affect the classification of the material, since both results are well above 1% asbestos.

Sample D-2 was a duplicate of ceiling tile sample 27. Neither sample was found to contain asbestos.

Sample D-3 was a duplicate of glue dot sample 35. Neither sample was found to contain asbestos.

3.3 Asbestos Analytical Results

The results of recent bulk sampling performed by DELTA are summarized in Table 3-1. Laboratory data sheets are included in Appendix B.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: white 12" floor tile with brown streaks, present in the laundry room 110 (Room 110) and bowling alley (Room 119). The tile was found to contain 1.7 to 3.0% chrysotile asbestos. Mastic from the tile was found not to contain asbestos.

TABLE 3-2: ASBESTOS-CONTAINING MATERIAL PRATT BUILDING MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
HOMOGENEOUS AREA NUMBER	**MATERIAL DESCRIPTION**	**LOCATION**	**ASBESTOS TYPE AND CONTENT (%)**
1	White 12" Floor Tile with Brown Streaks	Laundry Room 110	3.0% chrysotile

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL PRATT BUILDING MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
HOMOGENEOUS AREA NUMBER	**MATERIAL DESCRIPTION**	**LOCATION**	**ASBESTOS TYPE AND CONTENT (%)**
2	Spray-Applied Fireproofing	Boiler Room, Pool Filter Room	NAD
3	Tipping Cement on Fiberglass-Insulated Valves	Boiler Room	NAD
4	Boiler Breeching	Boiler Room	NAD
5	Pipe Fittings with Fiberglass Insulation	Throughout	NAD
6	Duct Insulation Adhesive	Pool Filter Room	NAD
7	Mastic From White 12" Floor Tile with Brown Streaks	Laundry Room 110	NAD
8	Suspended Ceiling Tile Type 1 2' X 4' Groove Pattern	Throughout Much of Building	NAD
9	Suspended Ceiling Tile Type 2 2' X 4' Groove and Pinhole Pattern	Used as Replacement Tiles in Limited Areas	NAD
10	Baseboard Molding Adhesive	Throughout	NAD
11	Red Floor Levelastic	Atrium Near Auditorium	NAD
12	Carpet Adhesive	Main Corridor	NAD
13	Spline Ceiling Tile - 1' X 1'	Auditorium 121	NAD

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL PRATT BUILDING MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
14	Building Paper	Auditorium 121 Behind Decorative Wainscoting	NAD
15	Glue Dots From 1' X 1' Ceiling Tile	Auditorium 121 on Ceiling Access Panel	NAD
16	Yellow Stage Curtain	Auditorium 121	NAD
17	Tan Stage Curtain	Auditorium 121	NAD
18	Textured Ceiling Plaster	Bathrooms Near Auditorium	NAD
19	Ceiling Surfacing	Main Atrium	NAD
NOTE: NAD indicates "No Asbestos Detected"			

The asbestos-containing tile is exposed. The tile is generally in good condition, and is unlikely to present a hazard unless it is actively disturbed. Any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile and mastic as asbestos.

Interior fire door core material in the building was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

Materials found not to contain asbestos included: spray-applied fireproofing material on beams and the ceiling deck of the mechanical room; spray-applied fireproofing material on the ceiling deck of the pool filter room; soft textured ceiling surfacing material in the main atrium; and mudded pipe fittings present on fiberglass-insulated plumbing throughout the building.

4.0 DISCUSSION AND RECOMMENDATIONS

The Pratt Building is a one-story 36,000± square foot masonry structure. The building was constructed in 1974 and consists of: a gymnasium, auditorium, swimming pool, bowling alley, locker rooms, a weight room, storage areas and a mechanical room. The building is heated by a forced hot air system. Two large Federal Boiler Company boilers are present in the mechanical room.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: white 12" floor tile with brown streaks, present in the laundry room 110 (Room 110) and bowling alley (Room 119). The tile was found to contain 1.7 to 3.0% chrysotile asbestos. Mastic from the tile was found not to contain asbestos.

The asbestos-containing tile is exposed. The tile is generally in good condition, and is unlikely to present a hazard unless it is actively disturbed. Any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile and mastic as asbestos.

Interior fire door core material in the building was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

Materials found not to contain asbestos included: spray-applied fireproofing material on beams and the ceiling deck of the mechanical room; spray-applied fireproofing material on the ceiling deck of the pool filter room; soft textured ceiling surfacing material in the main atrium; and mudded pipe fittings present on fiberglass-insulated plumbing throughout the building.

5.0 ESTIMATED COST FOR ASBESTOS ABATEMENT

The estimated cost for asbestos abatement shown in Table 5-1 is provided solely for establishing removal and replacement costs for the DPW asbestos inventory database. The abatement estimate utilizes fixed unit costs for specific item descriptions. Abatement projects are to be estimated with respect to individual project requirements or conditions.

The estimated cost for abatement of the building is $5,000. It should be noted that the cost estimate does not include removal of exterior materials such as roofing or window caulk. The cost estimate utilizes standard unit prices for removal of different types of asbestos-containing materials. When an actual asbestos abatement project is planned, a more precise estimate can be developed based on the specific work scope.

6.0. LIMITATIONS

The survey has the following limitations:

- DELTA's survey included an evaluation for the presence of asbestos-containing insulation on electrical equipment in the building. The inspection included building wiring, whips and fixtures. No suspect insulation was found. The inspection was designed to cover a representative portion of the building, since it was not feasible to examine all fixtures, junction boxes, etc.

- The survey did not utilize "destructive" sampling methods, and therefore may not have identified all of the asbestos-containing materials in the building. Specifically, the inspection did not include areas enclosed by walls or ceilings, unless these spaces could be accessed without damage.

- The survey did not include destructive sampling of furnishings such as chalkboards, corkboards, fire doors and benchtops.

TABLE 5-1

PRATT BUILDING
MYSTIC EDUCATION CENTER
ASBESTOS ABATEMENT COST ESTIMATE

Item Description	Quantity	Unit	Unit Cost	Subtotal Cost
REMOVAL				
Misc. Material	800	SF	$5.00	$4,000
SUB TOTAL REMOVAL				$4,000
REPLACEMENT				
Thermal System Insulation		SF	$10.00	$0,00
Thermal System Insulation		LF	$15.00	$0,00
Surfacing Material		SF	$10.00	$0,00
Miscellaneous Material		LF	N/A	
Miscellaneous Material		SF	N/A	
SUB TOTAL REPLACEMENT				$0,00
Construction				$4,000
Consultant (20%)				$0,800
Contingency (10%)				$0,480
TOTAL				$5,280
ABATEMENT ESTIMATE				**$5,000**

- The survey attempted to access and identify asbestos-containing materials associated with HVAC and mechanical systems. However, such systems were not dismantled during the inspection. It is possible that boilers, furnaces, fan units and other devices may contain gaskets and other interior asbestos material which can only be accessed through dismantling them. Care should be taken to avoid the accidental disturbance of asbestos during maintenance or repair work on such devices.

APPENDIX A

Inventory of Identified Asbestos-Containing Material

PRATT BUILDING
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
110	LAUNDRY ROOM	1	12" WHITE FLOOR TILE	3%	100								
119	BOWLING ALLEY	1	12" WHITE FLOOR TILE	3%	700								

APPENDIX B

Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/20/2000
Project: Mystic Education Center, 12-12-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1195591 **Material Description:** Tan Insulation
Client No.: 1P **Location:** Beam Along Stairs Boiler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	5	Cellulose	10
		85	Mineral Wool	

Lab No. 1195592 **Material Description:** Tan Insulation
Client No.: 2P **Location:** Beam Along Boiler Room Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	5	Cellulose	15
		80	Mineral Wool	

Lab No. 1195593 **Material Description:** Tan Insulation
Client No.: 3P **Location:** Beam Along Boiler Room Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	2	Cellulose	23
		75	Mineral Wool	

Lab No. 1195594 **Material Description:** Tan Insulation
Client No.: 4P **Location:** Boiler Room At Base OfCatwalkToMezzanine

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	25	Mineral Wool	75

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: DEC 1 9 2000 MOHAMMAD T. MIRZA

Approved By: _____
Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/20/2000
Project: Mystic Education Center, 12-12-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1195595 **Material Description:** Tan Insulation
Client No.: 5P **Location:** East Boiler

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	10	Cellulose	65
		25	Mineral Wool	

Lab No. 1195596 **Material Description:** Tan Insulation
Client No.: 6P **Location:** Boiler Room S.E. Corner Near AirComp.

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	70
		30	Mineral Wool	

Lab No. 1195597 **Material Description:** Tan Insulation
Client No.: 7P **Location:** Boiler Room N.E. Corner

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	70
		30	Mineral Wool	

Lab No. 1195598 **Material Description:** Tan Insulation
Client No.: 8P **Location:** HeatExchanger;Boiler Room; S.E. Corner

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Mineral Wool	70

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: MUHAMMAD [illegible]

Date: DEC 19 2000

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/20/2000
Project: Mystic Education Center, 12-12-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1195599 **Material Description:** Lt.Tan Insulation
Client No.: 9P **Location:** Pool Filter Room Front (West Side)

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Cellulose	15
		85	Mineral Wool	

Lab No. 1195600 **Material Description:** White/Silver/Yellow
Client No.: 10P **Location:** Wrap/Insulation Pool Filter Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	45
		10	Fibrous Glass	
		5	Mineral Wool	

Lab No. 1195601 **Material Description:** White/Silver/Yellow
Client No.: 11P **Location:** Wrap/Insulation Pool Filter Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Cellulose	35
		10	Fibrous Glass	
		10	Mineral Wool	

Lab No. 1195602 **Material Description:** White/Silver/Yellow
Client No.: 12P **Location:** Wrap/Insulation Pool Filter Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	30
		20	Fibrous Glass	
		20	Mineral Wool	

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: MUHAMMAD

Date:

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 609.231.9449 Fax: 609.231.9818

972/8

- Chain of Custody -

Client: Delta Environmental Services
P.O. Box 564
Branford, CT 06405

Project Name: Mystic Education Center
Project No.: 047-148-24

Phone: (203) 481-7668
FAX: (203) 488-8164

Contact:
Pager:

Special Instructions:

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[✓] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400	[✓] PLM : Bulk Asbestos EPA 600	[ ] TEM : AHERA
[ ] PCM : OSHA	[ ] PLM : Point Counting 198.1	[ ] TEM : NIOSH 7402
[ ] PCM : Other_____	[ ] PLM : NOB via 198.1 (PLM only)	[ ] TEM : EPA Level II
	[ ] If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements ** (**call to confirm TAT!)	[ ] TEM : Microvac Dust
[ ] AAS : NIOSH 7082 (Air)		[ ] TEM : Asbestos in Water
[ ] AAS : Lead in Drinking Water		[ ] TEM : Bulk Analysis
[ ] AAS : Lead in Paint ASTM D3335-85a		[ ] TEM : NOB 198.4
[ ] AAS : Lead Dust/Wipe		[ ] TEM : Other_____
[ ] AAS : Other Metals / Soil_____		[ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ (date / time) Verbals: _____ (date / time)

[ ] 10 Day [ ] 5 Day [✓] 72 hour [ ] 48 hour [ ] 24 hour [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): 12 - 12 (start) - 12 (end)
12 - 16
12 - 20

IATL#(s): _____ (start) - _____ (end) Total: ___

Chain of Custody:

Relinquished:	James R. Malutz	Date: 12/12/00	Time: 4:20 p.m.
Received:		Date:	Time:
Sample Log-in:	12	Date: 12/16/00	Time: 0935
Sample Prep:		Date: 12/19/00	Time:
Analyzed:		Date:	Time:
QA/QC Review:	MM	Date: DEC 14	Time:

Archived/Released:_____ QA/QC InterLAB Use:_____ Date:_____ Time:_____

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Pratt Building

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify ___, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
1p	Spray-on Fireproofing						Asbestos PLM EPA 600 1195591	Beam Along Stairs Boiler Room				
2p	↓						1195592	Beam along Boiler Room Ceiling				
3p	↓						1195593	↓				
4p	Valve Tipping Cement						1195594	Boiler Room at base of Catwalk to Mezzanine				
5p	Breeching						1195595	East Boiler				
6p	Tipping Cement on Heat Exchanger						1195596	Boiler Room SE Corner Near Air Compressor				
7p	Valve Tipping Cement						1195597	Boiler Room NE Corner				
8p	Pipe Fitting						1195598	Heat Exchanger Boiler Room SE Corner				
9p	Spray-on Fireproofing						1195599	Pool Filter Room Front (west side)				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify ___

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify ___, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
10p	Duct Insulation Adhesive						Asbestos PLM EPA 600 1195600 Please use positive stop	2001 Filter Room				
11p	↓						1195601 ↓	↓				
12p	↓						1195602 ↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify ___

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melatto	Delta			1		James R Melatto			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/28/2000
Project: MysticEd.Ctr.; Pratt Bldg., 12-19-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200125 **Material Description:** Off-White Floor Tile
Client No.: 13 **Location:** 12"; Laundry Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.7	Chrysotile	None Detected	None Detected	PC 98.3

Lab No. 1200126 **Material Description:** Sample Not Analyzed
Client No.: 14 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1200127 **Material Description:** Sample Not Analyzed
Client No.: 15 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1200128 **Material Description:** Black Mastic
Client No.: 16 **Location:** A/W 12" Tile Laundry Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Becky Huntzinger
Becky Huntzinger

Date: DEC 27 2000

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/28/2000
Project: MysticEd.Ctr.; Pratt Bldg., 12-19-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200129 **Material Description:** Black Mastic
Client No.: 17 **Location:** A/W 12" Tile Laundry Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200130 **Material Description:** Black Mastic
Client No.: 18 **Location:** A/W 12" Tile Laundry Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200131 **Material Description:** Grey/White
Client No.: 19 **Location:** Ceiling Tile 2x4;BoysLockerRm112

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Fibrous Glass	20
		35	Cellulose	

Lab No. 1200132 **Material Description:** Grey/White
Client No.: 20 **Location:** Ceiling Tile 2x4;BoysLockerRm112

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Fibrous Glass	20
		35	Cellulose	

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: Becky Huntzinger
Becky Huntzinger

Date: DEC 27 2000

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
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CERTIFICATE OF ANALYSIS

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Report Date: 12/28/2000
Project: MysticEd.Ctr.; Pratt Bldg., 12-19-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200133 **Material Description:** Brown/Black Rubber
Client No.: 21 **Location:** Brown Mastic Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200133 **Material Description:** Brown/Black Rubber
Client No.: 21 **Location:** Brown Mastic Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Brown Mastic				
From Above				

Lab No. 1200134 **Material Description:** Brown/Black Rubber
Client No.: 22 **Location:** Brown Mastic Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200134 **Material Description:** Brown/Black Rubber
Client No.: 22 **Location:** Brown Mastic Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Brown Mastic				
From Above				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: Becky Huntzinger
Becky Huntzinger

Date: DEC 27 2000

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

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Project: MysticEd.Ctr.; Pratt Bldg., 12-19-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200135 **Material Description:** Brown/Black Rubber
Client No.: 23 **Location:** Brown Mastic Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200135 **Material Description:** Brown/Black Rubber
Client No.: 23 **Location:** Brown Mastic Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Brown Mastic				
From Above				

Lab No. 1200136 **Material Description:** Red Leveler
Client No.: 24 **Location:** Tan Mastic CorridorByAuditorium

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200136 **Material Description:** Red Leveler
Client No.: 24 **Location:** Tan Mastic CorridorByAuditorium

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Tan Mastic				
From Above				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: Becky Huntzinger
Becky Huntzinger

Date: DEC 27 2000

Approved By: Frank Ehrenfeld

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Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200137 **Material Description:** Red Leveler
Client No.: 25 **Location:** Tan Mastic CorridorByAuditorium

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200137 **Material Description:** Red Leveler
Client No.: 25 **Location:** Tan Mastic CorridorByAuditorium

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Tan Mastic				
From Above				

Lab No. 1200138 **Material Description:** Red Leveler
Client No.: 26 **Location:** Tan Mastic CorridorByAuditorium

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200138 **Material Description:** Red Leveler
Client No.: 26 **Location:** Tan Mastic CorridorByAuditorium

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Tan Mastic				
From Above				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: John Haromze

Date: DEC 2 7 2000

Approved By: Frank E. Ehrenfeld, III
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Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200139 **Material Description:** Tan/White
Client No.: 27 **Location:** Ceiling Tile 1x1; Auditorium 121

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Mineral Wool	30
		25	Cellulose	

Lab No. 1200140 **Material Description:** Tan/White
Client No.: 28 **Location:** Ceiling Tile 1x1; Auditorium 121

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Mineral Wool	30
		30	Cellulose	

Lab No. 1200141 **Material Description:** Tan/White
Client No.: 29 **Location:** Ceiling Tile 1x1; Auditorium 121

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	50	Mineral Wool	30
		20	Cellulose	

Lab No. 1200142 **Material Description:** Black Fibrous
Client No.: 30 **Location:** Auditorium121 Behind Decorative Wood

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Fibrous Glass	60

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: John Harenza

Date: DEC 2 7 2000

Approved By: Frank E. Ehrenfeld, III
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Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200143 **Material Description:** Black Fibrous
Client No.: 31 **Location:** Auditorium121 Behind Decorative Wood

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Fibrous Glass	55

Lab No. 1200144 **Material Description:** Black Fibrous
Client No.: 32 **Location:** Auditorium121 Behind Decorative Wood

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	90	Fibrous Glass	10

Lab No. 1200145 **Material Description:** Brown Mastic
Client No.: 33 **Location:** On Access Panels Auditorium121Balcony

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200146 **Material Description:** Brown Mastic
Client No.: 34 **Location:** On Access Panels Auditorium121Balcony

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By:

Date: DEC 27 2000

Approved By:

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Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200147 **Material Description:** Brown Mastic
Client No.: 35 **Location:** On Access Panels Auditorium121Balcony

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200148 **Material Description:** Tan Insulation
Client No.: 36 **Location:** RoofDrain InFireExit CorridorFromBalcony

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Mineral Wool	70

Lab No. 1200149 **Material Description:** Tan Insulation
Client No.: 37 **Location:** RoofDrain InFireExit CorridorFromBalcony

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	35	Mineral Wool	65

Lab No. 1200150 **Material Description:** Tan Insulation
Client No.: 38 **Location:** Water Pipe In Stage Storage Room 122-A

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	35	Mineral Wool	65

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: John Horomzo

Date: DEC 27 2000

Approved By: Frank Ehrenfeld

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Report Date: 12/28/2000
Project: MysticEd.Ctr.; Pratt Bldg., 12-19-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200151 **Material Description:** Yellow Fibrous
Client No.: 39 **Location:** Auditorium Stage Stage Curtain

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	98	Cellulose	2

Lab No. 1200152 **Material Description:** Yellow Fibrous
Client No.: 40 **Location:** Auditorium Stage Stage Curtain

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	98	Cellulose	2

Lab No. 1200153 **Material Description:** Yellow Fibrous
Client No.: 41 **Location:** Auditorium Stage Stage Curtain

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	98	Cellulose	2

Lab No. 1200154 **Material Description:** Tan Fibrous
Client No.: 42 **Location:** Auditorium Stage Stage Curtain

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	98	Cellulose	2

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: John Haremza

Date: DEC 27 2000

Approved By: Frank E. Ehrenfeld, III
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BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200155 **Material Description:** Tan Fibrous
Client No.: 43 **Location:** Auditorium Stage Stage Curtain

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	98	Cellulose	2

Lab No. 1200156 **Material Description:** Tan Fibrous
Client No.: 44 **Location:** Auditorium Stage Stage Curtain

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	98	Cellulose	2

Lab No. 1200157 **Material Description:** White Plaster
Client No.: 45 **Location:** Men's Room 102 Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200158 **Material Description:** White Plaster
Client No.: 46 **Location:** Men's Room 102 Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

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Analysis Performed By: Harvey

Date: DEC 27 2000

Approved By: Frank Ehrenfeld

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Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200159 **Material Description:** White Plaster
Client No.: 47 **Location:** Men's Room 102 Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200160 **Material Description:** Tan Fibrous
Client No.: 48 **Location:** Main Atrium Spray-On Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	70	Mineral Wool	30

Lab No. 1200161 **Material Description:** Tan Fibrous
Client No.: 49 **Location:** Main Atrium Spray-On Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	70	Mineral Wool	30

Lab No. 1200162 **Material Description:** Tan Fibrous
Client No.: 50 **Location:** Main Atrium Spray-On Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	70	Mineral Wool	30

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Analysis Performed By: John Horomzo

Date: DEC 2 7 2000

Approved By: Frank E. Ehrenfeld, III
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BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200163 **Material Description:** Tan/WhiteCeilingTile
Client No.: 51 **Location:** 2x4; Type2; Corridor Near Gymnasium

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Mineral Wool	30
		25	Cellulose	

Lab No. 1200164 **Material Description:** Tan/WhiteCeilingTile
Client No.: 52 **Location:** 2x4; Type2; Corridor Near Gymnasium

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	50	Mineral Wool	30
		20	Cellulose	

Lab No. 1200165 **Material Description:** Tan/WhiteCeilingTile
Client No.: 53 **Location:** 2x4; Type2; Corridor Near Gymnasium

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Mineral Wool	30
		25	Cellulose	

Lab No. 1200166 **Material Description:** Tan Insulation
Client No.: 54 **Location:** Domestic Water Pipe Abv.Ceiling;Corridor

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Mineral Wool	70

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: John Haremza

Date: 2 2 2000

Approved By: Frank Ehrenfeld

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Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200167 **Material Description:** Tan Floor Tile
Client No.: 55 **Location:** Black Mastic BowlingAlley; Rm.119

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.5	Chrysotile	None Detected	None Detected	PC 97.5

Lab No. 1200167 **Material Description:** Tan Floor Tile
Client No.: 55 **Location:** Black Mastic BowlingAlley; Rm.119

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Black Mastic				
From Above				

Lab No. 1200168 **Material Description:** Tan Insulation
Client No.: 56 **Location:** RoofDrain; Room122-A Storage

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	35	Mineral Wool	65

Lab No. 1200169 **Material Description:** Tan/Red
Client No.: 57 **Location:** NonFibrous/Mastic Auditorium 121

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: John Haremza

Date: DEC 27 2000

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/28/2000
Project: MysticEd.Ctr.; Pratt Bldg., 12-19-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200170 **Material Description:** Lt.Green/Tan Mastic
Client No.: 58 **Location:** Auditorium 121

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200171 **Material Description:** Lt.Green/Tan Mastic
Client No.: 59 **Location:** Auditorium 121

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200172 **Material Description:** Tan Floor Tile
Client No.: D-1 **Location:** Black Mastic

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.0	Chrysotile	None Detected	None Detected	97

Lab No. 1200172 **Material Description:** Tan Floor Tile
Client No.: D-1 **Location:** Black Mastic

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected Black Mastic From Above	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: John Harowitz

Date: DEC 27 2000

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/28/2000
Project: MysticEd.Ctr.; Pratt Bldg., 12-19-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200173 **Material Description:** Tan/White
Client No.: D-2 **Location:** Ceiling Tile

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Mineral Wool	30
		30	Cellulose	

Lab No. 1200174 **Material Description:** Brown Mastic
Client No.: D-3 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	5	Other	94
		1	Wollastonite	

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent on endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: [signature]

Date: DEC 27 2000

Approved By: [signature]

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 609.231.9449 Fax: 609.231.9818

972/8

- Chain of Custody -

Client: Delta Environmental Services
P.O. Box 564
Branford, CT 06405

Project Name: Mystic Education Center
Project No.: Pratt Building
D97-148-24

Phone: (203) 481-7668
FAX: (203) 488-8164

Contact: Jim McCarthy
Pager:

Special Instructions:

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[✓] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400
[ ] PCM : OSHA
[ ] PCM : Other_____
[ ] AAS : NIOSH 7082 (Air)
[ ] AAS : Lead in Drinking Water
[ ] AAS : Lead in Paint ASTM D3335-85a
[ ] AAS : Lead Dust/Wipe
[ ] AAS : Other Metals / Soil_____

[✓] PLM : Bulk Asbestos EPA 600
[ ] PLM : Point Counting 198.1
[ ] PLM : NOB via 198.1 (PLM only)
[ ] If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements ** (**call to confirm TAT!)

[ ] TEM : AHERA
[ ] TEM : NIOSH 7402
[ ] TEM : EPA Level II
[ ] TEM : Microvac Dust
[ ] TEM : Asbestos in Water
[ ] TEM : Bulk Analysis
[ ] TEM : NOB 198.4
[ ] TEM : Other_____
[ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ date / time Verbals: _____ date / time

[ ] 10 Day [ ] 5 Day [✓] 72 hour [ ] 48 hour [ ] 24 hour [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): 13 D-1 (start) - 59 D-3 (end) IATL#(s): _____ (start) - _____ (end) Total: ___

Chain of Custody:

Relinquished:	James P. McCarthy	Date: 12/19/00	Time: 5:15 pm
Received:		Date:	Time:
Sample Log-in:	[illegible]	Date:	Time:
Sample Prep:		Date:	Time:
Analyzed:	[illegible]	Date: 12-27-02	Time:
QA/QC Review:	[illegible] DEC 22	Date: 01/05/01	Time:

Archived/Released:_____ QA/QC InterLAB Use:_____ Date:_____ Time:_____

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Pratt Building

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
13	White 12" Floor Tile with Brown streaks				1200125		Asbestos PLM EPA 600 Please use positive stop	Laundry Room 110				
14	↓				1200126		↓	↓				
15	↓				1200127		↓	↓				
16	Mastic From white 12" Floor Tile				1200128		Please use positive stop	↓				
17	↓				1200129		↓	↓				
18	↓				1200130		↓	↓				
19	2x4 Suspended Ceiling Tile				1200131		Please use positive stop	Boys Locker Room 112				
20	↓				1200132		↓	↓				
21	Baseboard Molding/Adhesive				1200133			Corridor				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P. McLaughlin	Delta			1		James P. McLaughlin			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Pratt Building

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
22	Baseboard molding/Adhesive				1200134		Asbestos PLM EPA 600 / Please use positive stop	Corridor				
23	↓				1200135		↓	↓				
24	Red Floor Levelwite/ Carpet Glue				1200136		Please use positive stop	Corridor Near Auditorium 121				
25	↓				1200137		↓	↓				
26	↓				1200138		↓	↓				
27	1x1 Ceiling Tile				1200139		Please use positive stop	Auditorium 121				
28	↓				1200140		↓	↓				
29	↓				1200141		↓	↓				
30	Building paper/ Insulation				1200142			Auditorium 121 Behind Decorative wall siding				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melatto	Delta			1		James R Melatto			
ADDITIONAL COMMENTS:				2					
				3					
				4					

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Pratt Building

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
31	Building Paper/ Insulation				1200143		Asbestos PLM EPA 600 Please use positive stop	Auditorium 121 behind decorative wood siding				
32	↓				1200144		↓	↓				
33	Glue Dots From 1x1 Ceiling Tile				1200145		Please use positive stop	on Access Panel Auditorium 121 Balcony				
34	↓				1200146		↓	↓				
35	↓				1200147		↓	↓				
36	Pipe Fitting				1200148		Please use positive stop	Roof Drain in Fire Exit corridor from Balcony at Auditorium				
37	↓				1200149		↓	↓				
38	↓				1200150			Water Pipe in Stage Storage Room 122-A				
39	Dark Yellow Stage Curtain				1200151			Auditorium Stage				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R McLatchie	Delta			1		James R McLatchie			
ADDITIONAL COMMENTS:				2					
				3					
				4					

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify ___, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
40	Dark Yellow Stage Curtain				1200152		Asbestos PCM EPA 600 please use positive stop	Auditorium stage				
41	↓				1200153		↓	↓				
42	Tan Stage Curtain				1200154		please use positive stop	↓				
43	↓				1200155		↓	↓				
44	↓				1200156		↓	↓				
45	Ceiling Plaster				1200157		please use positive stop	Men's Foam 102				
46	↓				1200158		↓	↓				
47	↓				1200159		↓	↓				
48	Serve-on Ceiling Surfacing				1200160			Main Atrium				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify ___

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED		COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
49	Spray-on Ceiling Surfacing				1200161		Asbestos PLM EPA 600	Please use positive stop	Main Atrium				
50	↓				1200162			↓	↓				
51	2x4 Suspended Ceiling Tile-Type 2				1200163			Please use positive stop	Corridor New Gymnasium				
52	↓				1200164			↓	↓				
53	↓				1200165			↓	↓				
54	Pipe Fitting				1200166				Domestic water pipe above ceiling in corridor				
55	White 12" Floor Tile				1200167				Bowling Alley Room 119				
56	Tipping Cement on Clean-Out				1200168				Roof Drain Room 122-A Storage				
57	Green Carpet Mastic				1200169				Auditorium 121				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
S8	Green Carpet mastic				1200170		Asbestos PLM EPA 600 please use positive stop	Auditorium 121				
S9	↓				1200171		↓	↓				
D-1					1200172							
D-2					1200173							
D-3					1200174							

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
ADDITIONAL COMMENTS:				2					
				3					
				4					

APPENDIX C

Laboratory and Inspector Accreditations

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT - INSP/MGMT PLANNER

LICENSE NO.
000044
CURRENT THROUGH
02/28/01
VALIDATION NO.
00-321886

JAMES P. MCCARTHY

SIGNATURE

COMMISSIONER, DEPT. OF PUBLIC HEALTH

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

CHEMSCOPE, INC.
NORTH HAVEN, CT

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

BULK ASBESTOS FIBER ANALYSIS

March 31, 2002
Effective through

David F. Alderman
For the National Institute of Standards and Technology

NVLAP Lab Code: 101061-0

NVLAP-01C (11-95)

APPENDIX D

Building Diagrams

- DRAFT -

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
RAINBOW HOUSE (DPW Building 16951)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: March 2001

DELTA ENVIRONMENTAL SERVICES®, INC.
81 Schoolground Road
P.O. Box 564, Branford, CT
(203) 481-7668

- DRAFT -

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
RAINBOW HOUSE (DPW Building 16951)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: March 2001

DELTA ENVIRONMENTAL SERVICES®, INC.
81 Schoolground Road
P.O. Box 564, Branford, CT
(203) 481-7668

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3.1	Asbestos Sampling Procedures	1
3.2	Asbestos Analytical Procedures	2
3.3	Asbestos Analytical Results	2
4.0	Discussion and Recommendations	3
5.0	Estimated Cost For Asbestos Abatement	3
6.0	Limitations	4

TABLES

3-1 Bulk Sample Summary for Suspect Asbestos-Containing Materials

3-2 Asbestos-Containing Material

3-3 Non-Asbestos-Containing Material

5-1 Asbestos Abatement Cost Estimate

APPENDICES

APPENDIX A - Inventory of Identified Asbestos-Containing Material

APPENDIX B - Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

APPENDIX C - Laboratory and Inspector Accreditations

APPENDIX D - Building Diagrams

1. INTRODUCTION

This report summarizes the results of an asbestos and lead inspection conducted by DELTA Environmental Services, Inc. (DELTA) for Rainbow House (DPW Building Number 16951) at the Mystic Education Center facility at 290 Oral School Road in Mystic, Connecticut. The project consisted of: review of available building records; physical inspection of the building to determine the quantities and locations of asbestos-containing materials (ACM); and bulk sampling of suspected asbestos-containing materials (ACM).

2. BUILDING DESCRIPTION

Mystic Education Center is a seven-building campus-type facility. The property consists of approximately 122 acres and 250,000 square feet of building floor space. Rainbow House is a two-story (with full basement) wood frame structure. The building covers approximately 3,400 square feet (total floor area) and was constructed in 1928. The building was extensively renovated in the mid-1980's. The building consists of: a boiler room, laundry room and storage space in the basement; a kitchen, living room, study and enclosed porch on the ground floor; and bedrooms on the second floor. Building diagrams are included in Appendix D.

The building is heated by an older H.B. Smith Company boiler located in the basement (the boiler was undergoing replacement at the time of issuance of this report).

3.0 ASBESTOS SURVEY

3.1 Asbestos Sampling Procedures

Bulk samples of suspected ACM were collected by James P. McCarthy, P.E., of DELTA, a Connecticut Department of Public Health licensed inspector. Samples were collected using a clean knife or other appropriate tool after first wetting the material to be sampled to limit fiber release.

Samples were placed in dedicated sealable plastic bags and promptly transmitted to the analytical laboratory using strict chain of custody procedures. Sampling was performed in accordance with Environmental Protection Agency protocols, which require a minimum of three negative results in order to establish that a material does not contain asbestos.

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
RAINBOW HOUSE
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
1	1222480	Pipe Fitting	Boiler Room	60% Chrysotile
2	1222481	Pipe Fitting	Boiler Room	Not Analyzed*
3	1222482	Pipe Fitting	Boiler Room	Not Analyzed*
4	1222483	Joint Compound	Boiler Room Ceiling	NAD
5	1222484	Boiler Breeching	Boiler Room	NAD
6	1222485	Pipe Fitting Wrap	Boiler Room	NAD
7	1222486	Cement Wall Board	Boiler Room	NAD
8	1222487	Cement Wall Board	Boiler Room	NAD
9	1222488	Cement Wall Board	Boiler Room	NAD
10	1222489	Sheetrock	Boiler Room Ceiling	NAD
11	1222490	Sheetrock	Boiler Room Ceiling	NAD
12	1222491	Joint Compound	Boiler Room Ceiling	NAD
13	1222492	White Linoleum - Type 1	Ground Floor Porch	NAD
14	1222493	White Linoleum - Type 1	Ground Floor Porch	NAD
15	1222494	White Linoleum - Type 1	Ground Floor Porch	NAD
16	1222495	Sheetrock	Kitchen	NAD
17	1222496	Wall Plaster	Near Radiator at West Exit	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
RAINBOW HOUSE
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
18	1222497	Wall Plaster	Near Radiator at West Exit	Trace Chrysotile (Point Count)
19	1222498	Wall Plaster	Near Radiator at West Exit	NAD
20	1222499	12" Grey Floor Tile	Near Radiator at West Exit	0.25% Chrysotile (Point Count)
21	1222500	12" Grey Floor Tile	Near Radiator at West Exit	Trace Chrysotile (Point Count)
22	1222501	12" Grey Floor Tile	Near Radiator at West Exit	0.25% Chrysotile (Point Count)
23	1222502	Window Glazing	Attic Window	Trace Chrysotile (Point Count)
24	1222503	Sheetrock	Attic	NAD
25	1222504	Wall Plaster	Second Floor Bathroom	NAD
26	1222505	White Linoleum - Type 2 Mastic	Second Floor Bathroom	NAD NAD
27	1222506	White Linoleum - Type 2 Mastic	Second Floor Bathroom	NAD NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
RAINBOW HOUSE
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
28	1222507	White Linoleum - Type 2 Mastic	Second Floor Bathroom	NAD NAD
29	1222508	Window Caulk	Ground Floor West Entrance	5.0% Chrysotile (Point Count)
30	1222509	Window Caulk	Ground Floor West Entrance	Not Analyzed*
31	1222510	Window Caulk	Ground Floor West Entrance	Not Analyzed*
32	1222511	Window Glaze	Attic	0.50% Chrysotile (Point Count)
33	1222512	Window Glaze	Attic	0.25% Chrysotile (Point Count)
34	144-545-1	Boiler Breeching	Boiler Room	NAD
35	144-545-2	Boiler Breeching	Boiler Room	NAD
36	144-545-3	Insulation on Back of Boiler	Boiler Room	NAD

NOTE: "NAD" INDICATES NO ASBESTOS DETECTED

* EPA protocols consider one positive result as confirmation that a material contains asbestos. If the first sample of a material is found to contain asbestos, no further confirmation is necessary and any additional samples are therefore not analyzed.

3.2 Asbestos Analytical Procedures

Analysis was performed by International Asbestos Testing Laboratories, Inc. (IATL), Mt. Laurel, New Jersey, and Chemscope, Inc., North Haven, Connecticut. Both laboratories are accredited by the National Institute of Standards and Technology. Analysis was performed using Polarized Light Microscopy (PLM) Method EPA 600. Point counting was used to quantify asbestos content for all samples found to contain less than ten percent asbestos.

3.3 Asbestos Analytical Results

The results of recent bulk sampling performed by DELTA are summarized in Table 3-1. Laboratory data sheets are included in Appendix B.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: cementitious mudded fitting insulation on fiberglass insulated piping; and exterior window frame caulk.

Exposed piping in the basement of the building is insulated with fiberglass. The pipe elbows have cementitious fittings which were found to contain 60% chrysotile asbestos. The fittings are generally in fair condition.

Exterior window caulking material was found to contain 5% chrysotile asbestos, respectively. The material is hard and is nonfriable. The caulking is unlikely to release asbestos fibers under normal conditions, but would have to be addressed if the windows are replaced.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

TABLE 3-2: ASBESTOS-CONTAINING MATERIAL RAINBOW HOUSE MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
HOMOGENEOUS AREA NUMBER	**MATERIAL DESCRIPTION**	**LOCATION**	**ASBESTOS TYPE AND CONTENT (%)**
1	Pipe Fittings	Throughout Basement (Possibly some concealed on upper floors)	60% chrysotile
2	Window Caulk	Windows Throughout	5% chrysotile
NOTE: NAD indicates "No Asbestos Detected"			

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL
RAINBOW HOUSE
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

HOMOGENEOUS AREA NUMBER	MATERIAL DESCRIPTION	LOCATION	ASBESTOS TYPE AND CONTENT (%)
3	Sheetrock	Throughout	NAD
4	Joint Compound	Throughout	NAD
5	Boiler Breeching	Boiler Room	NAD
6	Cement Wall Board	Boiler Room	NAD
7	White Linoleum Type 1	Ground Floor Porch	NAD
8	White Linoleum Type 2	Second Floor Bathroom	NAD
9	Wall Plaster	Throughout	NAD
10	12" Grey Floor Tile	Ground Floor Near West Exit	< 1% chrysotile
11	Window Glazing	Windows Throughout	< 1% chrysotile

NOTE: NAD indicates "No Asbestos Detected"

4.0 DISCUSSION AND RECOMMENDATIONS

Rainbow House is a two-story (with full basement) wood frame structure. The building covers approximately 3,400 square feet (total floor area) and was constructed in 1928. The building was extensively renovated in the mid-1980's. The building consists of: a boiler room, laundry room and storage space in the basement; a kitchen, living room, study and enclosed porch on the ground floor; and bedrooms on the second floor. The building is heated by an older H.B. Smith Company boiler located in the basement (the boiler was undergoing replacement at the time of issuance of this report).

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: cementitious mudded fitting insulation on fiberglass insulated piping; and exterior window frame caulk.

Exposed piping in the basement of the building is insulated with fiberglass. The pipe elbows have cementitious fittings which were found to contain 60% chrysotile asbestos. The fittings are generally in fair condition.

Exterior window caulking material was found to contain 5% chrysotile asbestos, respectively. The material is hard and is nonfriable. The caulking is unlikely to release asbestos fibers under normal conditions, but would have to be addressed if the windows are replaced.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

5.0 ESTIMATED COST FOR ASBESTOS ABATEMENT

A cost estimate for abatement of all identified asbestos-containing materials in the building is outlined in Table 5-1. The estimated cost for abatement of the building (including thermal systems reinsulation) is $1,482. It should be noted that the cost estimate does not include removal of exterior materials such as roofing or window caulk. The cost estimate utilizes standard unit prices for removal of different types of asbestos-containing materials. When an actual asbestos abatement project is planned, a more precise estimate can be developed based on the specific work scope.

TABLE 5-1: ASBESTOS ABATEMENT COST ESTIMATE
RAINBOW BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT
(TOTAL ABATEMENT OF ASBESTOS-CONTAINING MATERIALS)

Building/Description	Quantity	Unit	Unit Cost	Subtotal Cost	Consultant (20%)	Contingency (10%)	Total Cost
REMOVAL							
Thermal Systems Insulation	57	SF	$10.00	$570	$114	$57	$741
REPLACEMENT							
Thermal Systems Insulation	57	SF	$10.00	$570	$114	$57	$741
GRAND TOTAL				$1,140	$228	$114	$1,482
						ABATEMENT ESTIMATE:	**$1,482**

NOTE: TABLE DOES NOT INCLUDE ABATEMENT OF ANY EXTERIOR ASBESTOS SUCH AS WINDOW CAULK OR ROOFING.

6.0. LIMITATIONS

The survey has the following limitations:

- DELTA's survey included an evaluation for the presence of asbestos-containing insulation on electrical equipment in the building. The inspection included building wiring, whips and fixtures. No suspect insulation was found. The inspection was designed to cover a representative portion of the building, since it was not feasible to examine all fixtures, junction boxes, etc.

- The survey did not utilize "destructive" sampling methods, and therefore may not have identified all of the asbestos-containing materials in the building. Specifically, the inspection did not include areas enclosed by walls or ceilings, unless these spaces could be accessed without damage.

- The survey did not include destructive sampling of furnishings such as chalkboards, corkboards, fire doors and benchtops.

- The survey attempted to access and identify asbestos-containing materials associated with HVAC and mechanical systems. However, such systems were not dismantled during the inspection. It is possible that boilers, furnaces, fan units and other devices may contain gaskets and other interior asbestos material which can only be accessed through dismantling them. Care should be taken to avoid the accidental disturbance of asbestos during maintenance or repair work on such devices.

APPENDIX A

Inventory of Identified Asbestos-Containing Material

RAINBOW HOUSE
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
BASEMENT													
	BOILER ROOM	1	PIPE FITTINGS	60%					20				ASB FITTINGS w/ FBGL PIPE INSUL
	LAUNDRY RM.	1	PIPE FITTINGS	60%					20				
	OIL TANK ROOM	1	PIPE FITTINGS	60%					17				

NOTE: EXTERIOR WINDOW CAULK CONTAINS ASBESTOS

APPENDIX B

Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Rainbow House
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222480 **Material Description:** Grey Fibrous
Client No.: 1 **Location:** Boiler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
60	Chrysotile	None Detected	None Detected	40

Lab No. 1222481 **Material Description:** Sample Not Analyzed
Client No.: 2 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1222482 **Material Description:** Sample Not Analyzed
Client No.: 3 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1222483 **Material Description:** Lt.Grey Jt.Compound
Client No.: 4 **Location:** Boiler Room; Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent on endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith, III
Vane G. Smith, III, AIHA-AAR 4719

Date: FEB

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
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CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Rainbow House
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222484 **Material Description:** White Fibrous
Client No.: 5 **Location:** Boiler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	10	Synthetic	90

Lab No. 1222485 **Material Description:** White Fibrous
Client No.: 6 **Location:** Boiler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	60

Lab No. 1222486 **Material Description:** Dk.Grey Plaster
Client No.: 7 **Location:** Boiler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1222487 **Material Description:** Dk.Grey Plaster
Client No.: 8 **Location:** Boiler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

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CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Rainbow House
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222488 **Material Description:** Dk.Grey Plaster
Client No.: 9 **Location:** Boiler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1222489 **Material Description:** Brown/WhiteSheetrock
Client No.: 10 **Location:** Boiler Room; Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	70
		Trace	Fibrous Glass	

Lab No. 1222490 **Material Description:** Brown/WhiteSheetrock
Client No.: 11 **Location:** Boiler Room; Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80
		Trace	Fibrous Glass	

Lab No. 1222491 **Material Description:** White Joint Compound
Client No.: 12 **Location:** Boiler Room; Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By:- Vane G. Smith III.
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Date: FEB

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CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Rainbow House
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222492 **Material Description:** White Linoleum
Client No.: 13 **Location:** Ground Floor Porch

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Synthetic	80
		20	Cellulose	

Lab No. 1222493 **Material Description:** White Linoleum
Client No.: 14 **Location:** Ground Floor Porch

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Synthetic	80
		20	Cellulose	

Lab No. 1222494 **Material Description:** White Linoleum
Client No.: 15 **Location:** Ground Floor Porch

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Synthetic	80
		20	Cellulose	

Lab No. 1222495 **Material Description:** White Sheetrock
Client No.: 16 **Location:** Kitchen

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	1	Cellulose	99

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

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CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Rainbow House
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222496 **Material Description:** White Plaster
Client No.: 17 **Location:** Near Radiator At West Exit

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1222497 **Material Description:** White Plaster
Client No.: 18 **Location:** Near Radiator At West Exit

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC Trace	Chrysotile	None Detected	None Detected	100

Lab No. 1222498 **Material Description:** White Plaster
Client No.: 19 **Location:** Near Radiator At West Exit

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1222499 **Material Description:** Dk.Grey Floor Tile
Client No.: 20 **Location:** Near Radiator At West Exit; 12"

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.25	Chrysotile	Trace	Cellulose	PC 99.75

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith, III
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Date: FEB 0 2 20

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CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Rainbow House
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222500 **Material Description:** Dk.Grey Floor Tile
Client No.: 21 **Location:** Near Radiator At West Exit; 12"

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC Trace	Chrysotile	Trace	Cellulose	100

Lab No. 1222501 **Material Description:** Dk.Grey Floor Tile
Client No.: 22 **Location:** Near Radiator At West Exit; 12"

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.25	Chrysotile	Trace	Cellulose	PC 99.75

Lab No. 1222502 **Material Description:** Lt.Tan Glazing
Client No.: 23 **Location:** Attic; Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC Trace	Chrysotile	None Detected	None Detected	100

Lab No. 1222503 **Material Description:** White Sheetrock
Client No.: 24 **Location:** Attic

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Fibrous Glass	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith III

Date: FEB

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CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Rainbow House
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222504 **Material Description:** Brown/WhiteSheetrock
Client No.: 25 **Location:** 2nd Floor; Bathroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	25	Cellulose	75

Lab No. 1222505 **Material Description:** White Linoleum
Client No.: 26 **Location:** Tan Mastic 2nd Floor; Bathroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80
		Trace	Synthetic	

Lab No. 1222505 **Material Description:** White Linoleum
Client No.: 26 **Location:** Tan Mastic 2nd Floor; Bathroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Tan Mastic				
From Above				

Lab No. 1222506 **Material Description:** White Linoleum
Client No.: 27 **Location:** Tan Mastic 2nd Floor; Bathroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80
		Trace	Synthetic	

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Wane G. Smith, III, AIHA-AAR 4719

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CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Rainbow House
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222506 **Material Description:** White Linoleum
Client No.: 27 **Location:** Tan Mastic 2nd Floor; Bathroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Tan Mastic				
From Above				

Lab No. 1222507 **Material Description:** White Linoleum
Client No.: 28 **Location:** Tan Mastic 2nd Floor; Bathroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	2	Cellulose	98
		Trace	Synthetic	

Lab No. 1222507 **Material Description:** White Linoleum
Client No.: 28 **Location:** Tan Mastic 2nd Floor; Bathroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Tan Mastic				
From Above				

* **Lab No.** 1222508 **Material Description:** Grey Glazing
Client No.: 29 **Location:** Ground Floor; Window West Entrance

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 5.0	Chrysotile	None Detected	None Detected	95

* Different material than indicated on Sample Log/Description.

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

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CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/20/2001
Project: Mystic; Rainbow House
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222509 **Material Description:** Sample Not Analyzed
Client No.: 30 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1222510 **Material Description:** Sample Not Analyzed
Client No.: 31 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1222511 **Material Description:** Grey Glazing
Client No.: 32 **Location:** Attic; Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.50	Chrysotile	None Detected	None Detected	PC 99.5

Lab No. 1222512 **Material Description:** Grey Glazing
Client No.: 33 **Location:** Attic; Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.25	Chrysotile	None Detected	None Detected	PC 99.75

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

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972/9

- Chain of Custody -

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Project No.: Mystic, CT
D97-148-24

Phone: (203) 481-7668
FAX: (203) 488-8164

Contact: Jim McCarthy
Pager:

Special Instructions:

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[✓] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400	[✓] PLM : Bulk Asbestos EPA 600	[ ] TEM : AHERA
[ ] PCM : OSHA	[ ] PLM : Point Counting 198.1	[ ] TEM : NIOSH 7402
[ ] PCM : Other_____	[ ] PLM : NOB via 198.1 (PLM only)	[ ] TEM : EPA Level II
	[ ] If <1% by PLM, to TEM via 198.4	[ ] TEM : Microvac Dust
[ ] AAS : NIOSH 7082 (Air)	to meet NYSDOH requirements **	[ ] TEM : Asbestos in Water
[ ] AAS : Lead in Drinking Water	(**call to confirm TAT!)	[ ] TEM : Bulk Analysis
[ ] AAS : Lead in Paint ASTM D3335-85a		[ ] TEM : NOB 198.4
[ ] AAS : Lead Dust/Wipe		[ ] TEM : Other_____
[ ] AAS : Other Metals / Soil_____		[ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ date / time Verbals: _____ date / time

[ ] 10 Day [ ] 5 Day [✓] 72 hour [✓] 48 hour [ ] 24 hour [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): _____ (start) - _____ (end) IATL#(s): _____ (start) - _____ (end) Total: ___

Chain of Custody:

Relinquished:	June N Mclaughlin	Date: 2/6/01	Time: 5:00 pm
Received:		Date:	Time:
Sample Log-in:	CS 2/5 2000	Date:	Time:
Sample Prep:		FEB Date: 8 2001	Time:
Analyzed:	WS 2/9/01	Date:	Time:
QA/QC Review:	JB	Date: 2/19/01	Time:

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Rainbow House

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify ___ O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
1	Pipe Fitting						Asbestos PLM EPA 600 1222480 Positive Stop	Boiler Room				
2	↓						1222481 ↓	↓				
3	↓						1222482 ↓	↓				
4	Joint Compound						1222483	Boiler Room Ceiling				
5	Boiler Breeching						1222484	Boiler Room				
6	Pipe Fitting wrap						1222485	↓				
7	Cement Wall Board						1222486 Positive Stop	↓				
8	↓						1222487 ↓	↓				
9	↓						1222488 ↓	↓				

Container Codes: P = Plastic E = EPA VIAL G = Glass A = Amber Glass B = Bacteria Bottle
Preservative Codes: I = Iced F = Filtered N = Nitric Acid (HNO_3) H = Hydrochloric Acid (HCl) S= Sodium Hydroxide (NaOH) T = Sodium Thiosulfate F = Sulfuric Acid
O = Other; Specify ___

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: Rainbow House V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
10	Sheetrock						Asbestos PLM EPA 600 1222489 positive stop	Boiler Room Ceiling				
11	↓						1222490 ↓	↓				
12	Joint Compound						1222491	↓				
13	Linoleum Tile 1						1222492 positive stop	Grand Floor Porch				
14	↓						1222493 ↓	↓				
15	↓						1222494 ↓	↓				
16	Sheetrock						1222495	Kitchen				
17	Plaster						1222496 positive stop	Near Radiator at West Exit				
18	↓						1222497 ↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melatto	Delta			1		James R Melatto			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center
PROJECT LOCATION: Mystic, CT Rainbow House
PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
19	Plaster						Asbestos PLM EPA 600 1222498	Near Radiator at West Exit				
20	Gray 12" Tile						1222499 Positive Stop					
21	↓						1222500					
22	↓						1222501 ↓	↓				
23	Window Glaze						1222502	Attic				
24	Sheetrock						1222503	↓				
25	Plaster						1222504	2nd Floor Bathroom				
26	Linoleum Type 2						1222505 Positive Stop	↓				
27	↓						1222506 ↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melotto	Delta			1		James R Melotto			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
28	Linoleum Tile 2						Asbestos PLM EPA 600 1222507	2nd Floor Bathroom				
29	Window Caulk						1222508 positive stop	Ground Floor West Entrance				
30	↓						1222509	↓				
31	↓						1222510 ↓	↓				
32	Window Glaze						1222511 positive stop	Attic				
33	↓						1222512 ↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P Melatto	Delta			1		James P Melatto			
ADDITIONAL COMMENTS:				2					
				3					
				4					

ChemScope INDUSTRIAL HYGIENE • ENVIRONMENTAL CHEMISTRY
P.O. BOX 389 FAIR HAVEN STATION, NEW HAVEN, CT 06513-0389
15 Moulthrop Street., North Haven, CT 06473-3686 • Phone (203) 865-5605 • Fax (203) 498-1610

RECEIVED MAR 2 0 2001

Certificate Of Analysis

Delta Environmental Services, Inc.
PO Box 564
81 Schoolground Road
Branford CT 06405

3/27/01
CS# 144-545

Bulk sample(s) from Mystic Education Center, received from customer on 3/27/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
144-545-1 White fibrous material (#34) / from boiler breeching - Rainbow House	*No Asbestos Detected* *70% Non- Fibrous Particles* *20% Synthetic Fibers* *10% Fiberglass*
144-545-2 White fibrous material (#35) / from boiler breeching - Rainbow House	*No Asbestos Detected* *65% Non- Fibrous Particles* *30% Synthetic Fibers* *5% Fiberglass*
144-545-3 Gray/brown crumbly insulation (#36) / on back of boiler - Rainbow House	*No Asbestos Detected* *60% Non- Fibrous Particles* *40% Mineral Wool*

NVLAP ACCREDITED LAB# 101061-0

Bulk sample(s) from Mystic Education Center, received from customer on 3/27/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**

AIHA Bulk Asbestos Proficiency Analytical Testing (PAT) Program. PAT Proficient Lab #100134
Accreditation by the National Institute of Standards and Technology/National Voluntary Lab Accreditation Program (NVLAP) does not imply endorsement by this Federal Agency.
This report pertains only to the samples tested and may not be reproduced in part.
The scope of Accreditation referenced in this report pertains to bulk asbestos analysis by PLM.
Connecticut Approved Environmental Lab PH 0581
See test parameters on reverse side of this report.

Signature (if applicable)	**Signature (if applicable)**	***Authorized Signature:***	**or**	***Authorized Signature:***
Analyst	**Inspector**	***Ronald D. Arena*** ***Director***		***Suzanne Cristante*** ***QA Coordinator***

NVLAP ACCREDITED LAB# 101061-0

144-545

Rec. 3-27-01

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405

(203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center – Rainbow House

PROJECT LOCATION:

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
34	Boiler breeching						Asbestos PLM	please rush				
35	↓						↓	↓				
36	Insulation on back of boiler						↓	Normal Turnaround				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME
Jaime R Melanthes	Delta	3/26/01	1:00 p.m

TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
1	34-36	Jaime R. Melanthes	G. Patricelli	3-27-01	9:36 am
2					
3					
4					

ADDITIONAL COMMENTS:

APPENDIX C

Laboratory and Inspector Accreditations

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT - INSP/MGMT PLANNER

LICENSE NO.
000044
CURRENT THROUGH
02/28/01
VALIDATION NO.
00-321886

JAMES P. MCCARTHY

James P. McCarthy
SIGNATURE

COMMISSIONER, DEPT. OF PUBLIC HEALTH

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

CHEMSCOPE, INC.
NORTH HAVEN, CT

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

BULK ASBESTOS FIBER ANALYSIS

March 31, 2002
Effective through

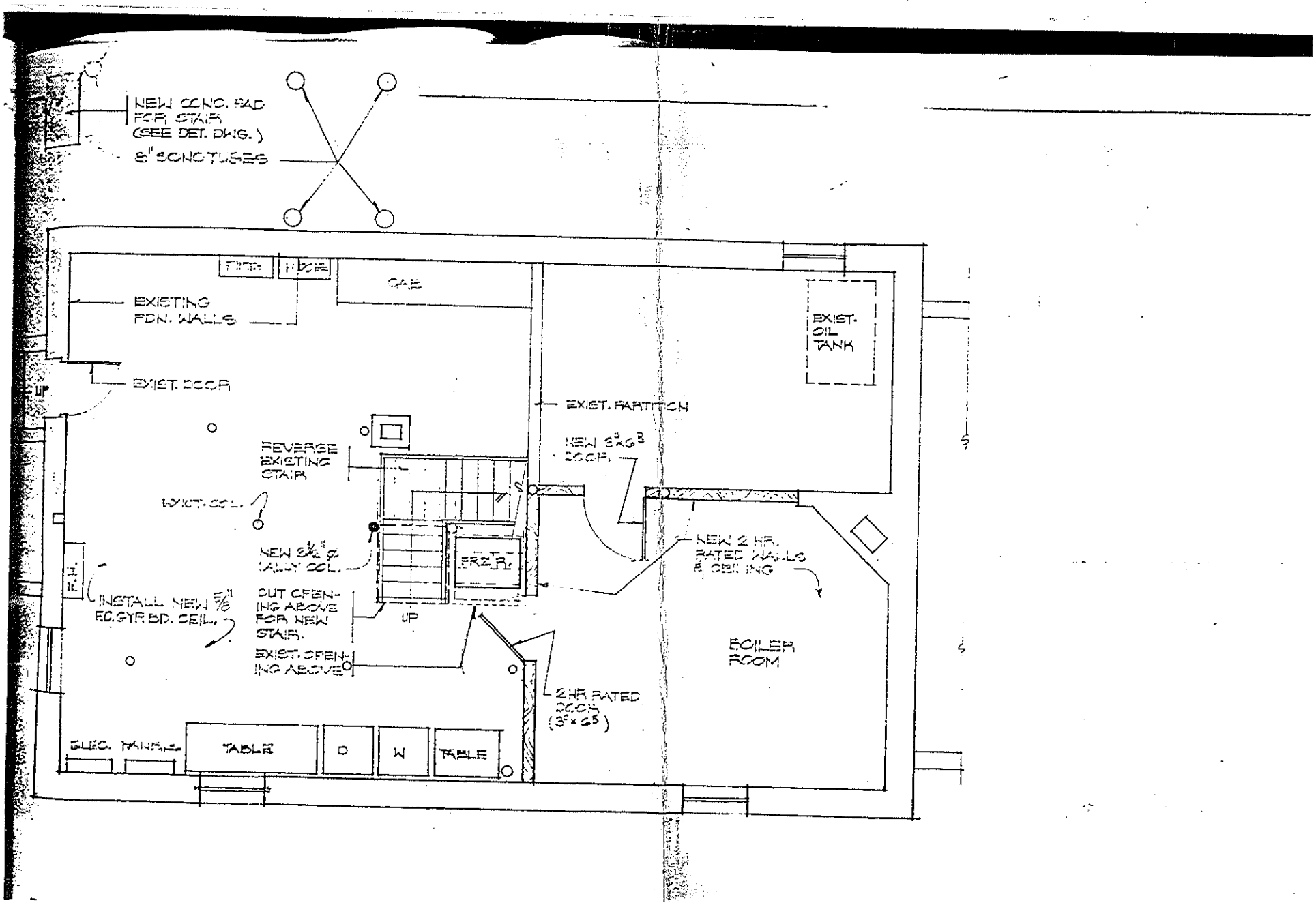
David F. Alderman
For the National Institute of Standards and Technology

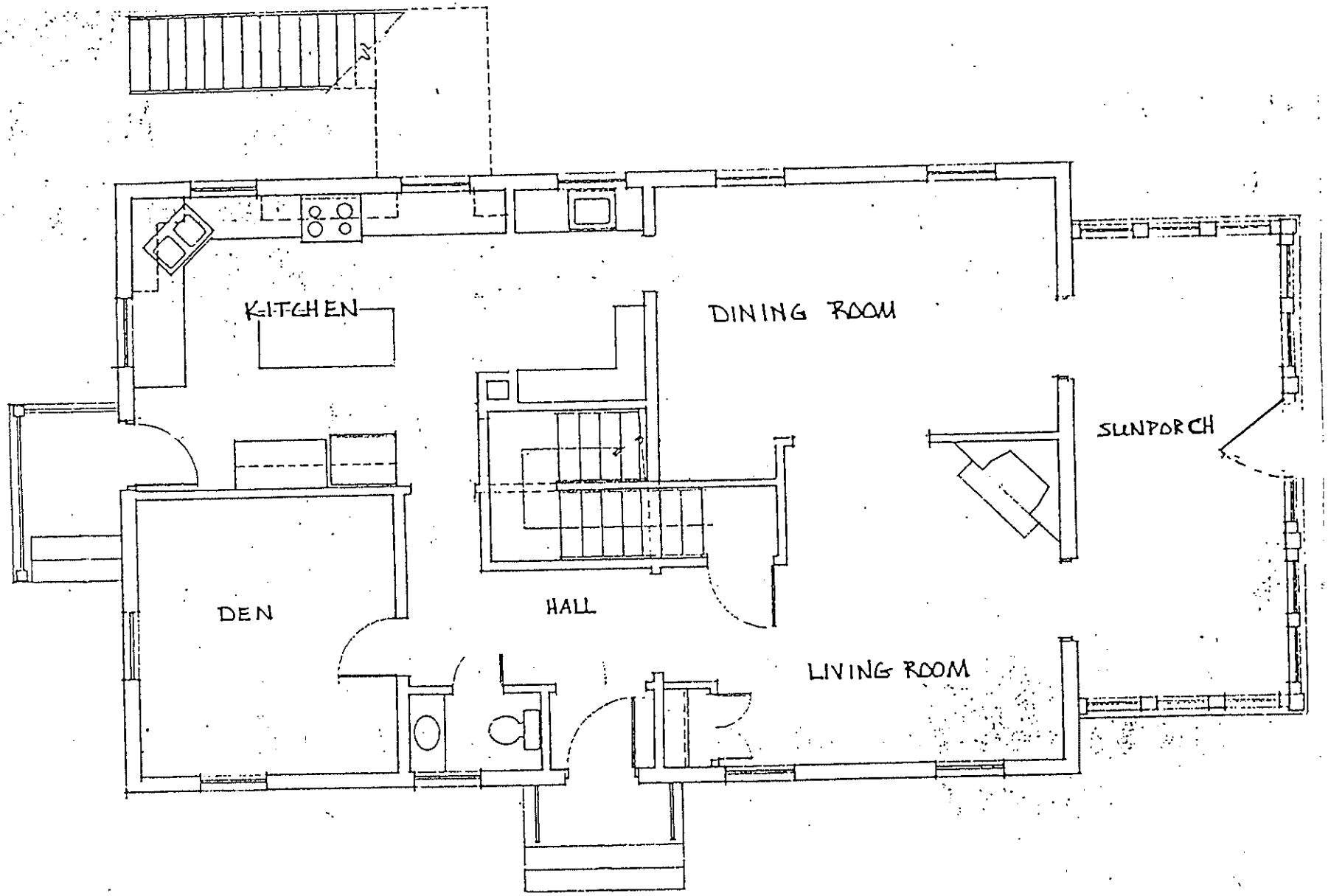
NVLAP Lab Code: 101061-0

NVLAP-01C (11-95)

APPENDIX D

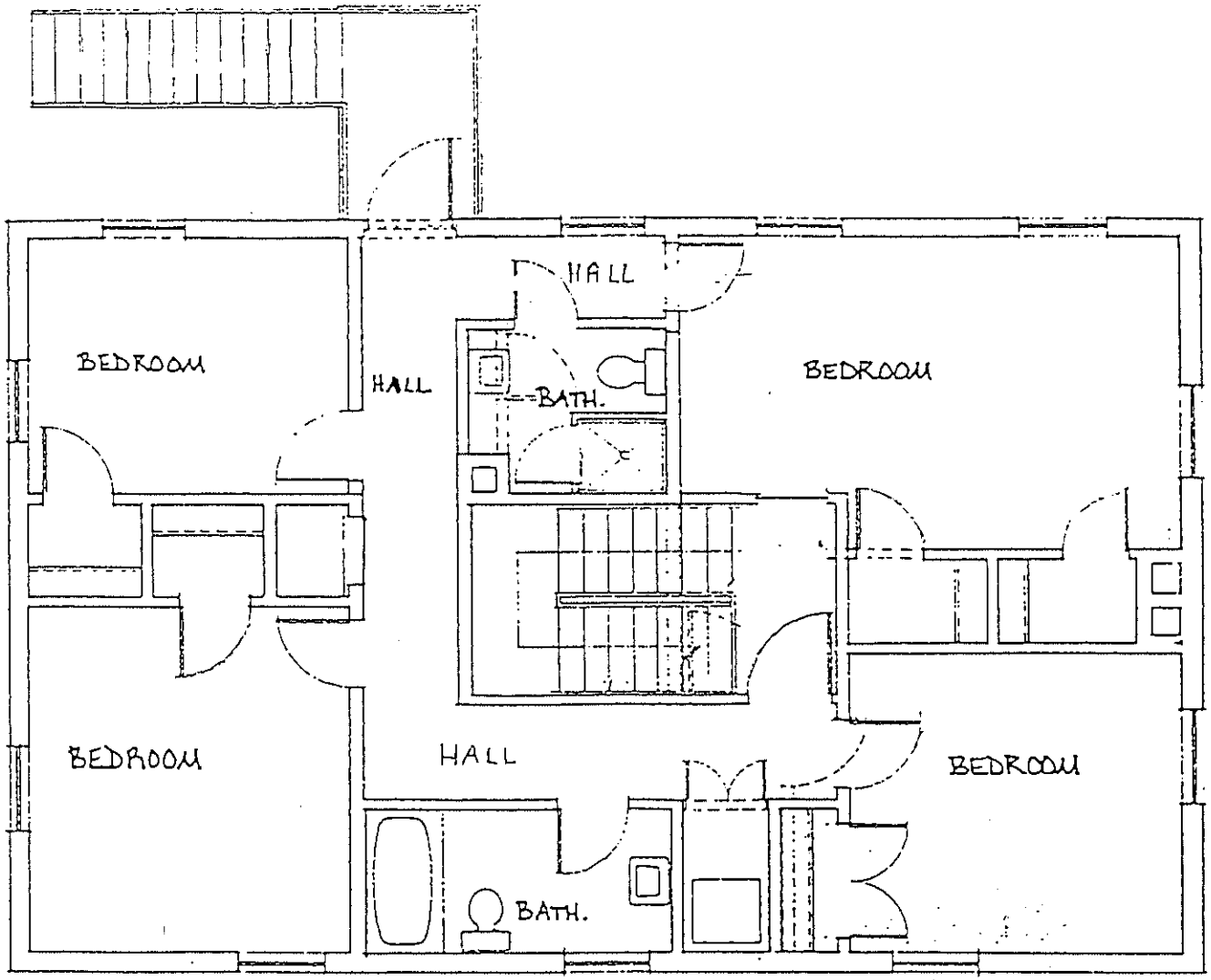
Building Diagrams


NEW CONC. PAD FOR STAIR (SEE DET. DWG.)
8" SONOTUBES
EXISTING FDN. WALLS
EXIST. DOOR
UP
GAS
EXIST. OIL TANK
EXIST. PARTITION
NEW 3'x6'8" DOOR
REVERSE EXISTING STAIR
EXIST. COL.
NEW 3½" ø WALL COL.
FRZR.
NEW 2 HR. RATED WALLS & CEILING
INSTALL NEW 5/8" FD. GYP. BD. CEIL.
CUT OPENING ABOVE FOR NEW STAIR.
UP
EXIST. OPENING ABOVE
BOILER ROOM
2 HR RATED DOOR (3'x6'8")
ELEC. PANELS
TABLE
D
W
TABLE



FIRST FLOOR PLAN

KAINBOW HOUSE



SECOND FLOOR PLAN

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
RAINBOW HOUSE (DPW Building 16951)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: November 2001

DELTA
ENVIRONMENTAL
SERVICES®, INC.

81 Schoolground Road
P.O. Box 564, Branford, CT
(203) 481-7668

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
RAINBOW HOUSE (DPW Building 16951)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: November 2001

DELTA
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(203) 481-7668

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3.0	Asbestos Survey	1
3.1	Asbestos Sampling Procedures	1
3.2	Asbestos Analytical Procedures	2
3.3	Asbestos Analytical Results	2
4.0	Discussion and Recommendations	3
5.0	Estimated Cost For Asbestos Abatement	3
6.0	Limitations	4

TABLES

3-1 Bulk Sample Summary for Suspect Asbestos-Containing Materials

3-2 Asbestos-Containing Material

3-3 Non-Asbestos-Containing Material

5-1 Asbestos Abatement Cost Estimate

APPENDICES

APPENDIX A - Inventory of Identified Asbestos-Containing Material

APPENDIX B - Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

APPENDIX C - Laboratory and Inspector Accreditations

APPENDIX D - Building Diagrams

1. INTRODUCTION

This report summarizes the results of an asbestos and lead inspection conducted by DELTA Environmental Services, Inc. (DELTA) for Rainbow House (DPW Building Number 16951) at the Mystic Education Center facility at 290 Oral School Road in Mystic, Connecticut. The project consisted of: review of available building records; physical inspection of the building to determine the quantities and locations of asbestos-containing materials (ACM); and bulk sampling of suspected asbestos-containing materials (ACM).

2. BUILDING DESCRIPTION

Mystic Education Center is a seven-building campus-type facility. The property consists of approximately 122 acres and 250,000 square feet of building floor space. Rainbow House is a two-story (with full basement) wood frame structure. The building covers approximately 3,400 square feet (total floor area) and was constructed in 1928. The building was extensively renovated in the mid-1980's. The building consists of: a boiler room, laundry room and storage space in the basement; a kitchen, living room, study and enclosed porch on the ground floor; and bedrooms on the second floor. Building diagrams are included in Appendix D.

The building is heated by an older H.B. Smith Company boiler located in the basement (the boiler was undergoing replacement at the time of issuance of this report).

3.0 ASBESTOS SURVEY

3.1 Asbestos Sampling Procedures

Bulk samples of suspected ACM were collected by James P. McCarthy, P.E., of DELTA, a Connecticut Department of Public Health licensed inspector. Samples were collected using a clean knife or other appropriate tool after first wetting the material to be sampled to limit fiber release.

Samples were placed in dedicated sealable plastic bags and promptly transmitted to the analytical laboratory using strict chain of custody procedures. Sampling was performed in accordance with Environmental Protection Agency protocols, which require a minimum of three negative results in order to establish that a material does not contain asbestos.

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
RAINBOW HOUSE
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
1	1222480	Pipe Fitting	Boiler Room	60% Chrysotile
2	1222481	Pipe Fitting	Boiler Room	Not Analyzed*
3	1222482	Pipe Fitting	Boiler Room	Not Analyzed*
4	1222483	Joint Compound	Boiler Room Ceiling	NAD
5	1222484	Boiler Breeching	Boiler Room	NAD
6	1222485	Pipe Fitting Wrap	Boiler Room	NAD
7	1222486	Cement Wall Board	Boiler Room	NAD
8	1222487	Cement Wall Board	Boiler Room	NAD
9	1222488	Cement Wall Board	Boiler Room	NAD
10	1222489	Sheetrock	Boiler Room Ceiling	NAD
11	1222490	Sheetrock	Boiler Room Ceiling	NAD
12	1222491	Joint Compound	Boiler Room Ceiling	NAD
13	1222492	White Linoleum - Type 1	Ground Floor Porch	NAD
14	1222493	White Linoleum - Type 1	Ground Floor Porch	NAD
15	1222494	White Linoleum - Type 1	Ground Floor Porch	NAD
16	1222495	Sheetrock	Kitchen	NAD
17	1222496	Wall Plaster	Near Radiator at West Exit	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
RAINBOW HOUSE
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
18	1222497	Wall Plaster	Near Radiator at West Exit	Trace Chrysotile (Point Count)
19	1222498	Wall Plaster	Near Radiator at West Exit	NAD
20	1222499	12" Grey Floor Tile	Near Radiator at West Exit	0.25% Chrysotile (Point Count)
21	1222500	12" Grey Floor Tile	Near Radiator at West Exit	Trace Chrysotile (Point Count)
22	1222501	12" Grey Floor Tile	Near Radiator at West Exit	0.25% Chrysotile (Point Count)
23	1222502	Window Glazing	Attic Window	Trace Chrysotile (Point Count)
24	1222503	Sheetrock	Attic	NAD
25	1222504	Wall Plaster	Second Floor Bathroom	NAD
26	1222505	White Linoleum - Type 2 Mastic	Second Floor Bathroom	NAD NAD
27	1222506	White Linoleum - Type 2 Mastic	Second Floor Bathroom	NAD NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
RAINBOW HOUSE
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
28	1222507	White Linoleum - Type 2 Mastic	Second Floor Bathroom	NAD NAD
29	1222508	Window Caulk	Ground Floor West Entrance	5.0% Chrysotile (Point Count)
30	1222509	Window Caulk	Ground Floor West Entrance	Not Analyzed*
31	1222510	Window Caulk	Ground Floor West Entrance	Not Analyzed*
32	1222511	Window Glaze	Attic	0.50% Chrysotile (Point Count)
33	1222512	Window Glaze	Attic	0.25% Chrysotile (Point Count)
34	144-545-1	Boiler Breeching	Boiler Room	NAD
35	144-545-2	Boiler Breeching	Boiler Room	NAD
36	144-545-3	Insulation on Back of Boiler	Boiler Room	NAD

NOTE: "NAD" INDICATES NO ASBESTOS DETECTED

* EPA protocols consider one positive result as confirmation that a material contains asbestos. If the first sample of a material is found to contain asbestos, no further confirmation is necessary and any additional samples are therefore not analyzed.

3.2 Asbestos Analytical Procedures

Analysis was performed by International Asbestos Testing Laboratories, Inc. (IATL), Mt. Laurel, New Jersey, and Chemscope, Inc., North Haven, Connecticut. Both laboratories are accredited by the National Institute of Standards and Technology. Analysis was performed using Polarized Light Microscopy (PLM) Method EPA 600. Point counting was used to quantify asbestos content for all samples found to contain less than ten percent asbestos.

3.3 Asbestos Analytical Results

The results of recent bulk sampling performed by DELTA are summarized in Table 3-1. Laboratory data sheets are included in Appendix B.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: cementitious mudded fitting insulation on fiberglass insulated piping; and exterior window frame caulk.

Exposed piping in the basement of the building is insulated with fiberglass. The pipe elbows have cementitious fittings which were found to contain 60% chrysotile asbestos. The fittings are generally in fair condition.

Exterior window caulking material was found to contain 5% chrysotile asbestos, respectively. The material is hard and is nonfriable. The caulking is unlikely to release asbestos fibers under normal conditions, but would have to be addressed if the windows are replaced.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

TABLE 3-2: ASBESTOS-CONTAINING MATERIAL RAINBOW HOUSE MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
HOMOGENEOUS AREA NUMBER	**MATERIAL DESCRIPTION**	**LOCATION**	**ASBESTOS TYPE AND CONTENT (%)**
1	Pipe Fittings	Throughout Basement (Possibly some concealed on upper floors)	60% chrysotile
2	Window Caulk	Windows Throughout	5% chrysotile
NOTE: NAD indicates "No Asbestos Detected"			

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL
RAINBOW HOUSE
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

HOMOGENEOUS AREA NUMBER	MATERIAL DESCRIPTION	LOCATION	ASBESTOS TYPE AND CONTENT (%)
3	Sheetrock	Throughout	NAD
4	Joint Compound	Throughout	NAD
5	Boiler Breeching	Boiler Room	NAD
6	Cement Wall Board	Boiler Room	NAD
7	White Linoleum Type 1	Ground Floor Porch	NAD
8	White Linoleum Type 2	Second Floor Bathroom	NAD
9	Wall Plaster	Throughout	NAD
10	12" Grey Floor Tile	Ground Floor Near West Exit	< 1% chrysotile
11	Window Glazing	Windows Throughout	< 1% chrysotile

NOTE: NAD indicates "No Asbestos Detected"

4.0 DISCUSSION AND RECOMMENDATIONS

Rainbow House is a two-story (with full basement) wood frame structure. The building covers approximately 3,400 square feet (total floor area) and was constructed in 1928. The building was extensively renovated in the mid-1980's. The building consists of: a boiler room, laundry room and storage space in the basement; a kitchen, living room, study and enclosed porch on the ground floor; and bedrooms on the second floor. The building is heated by an older H.B. Smith Company boiler located in the basement (the boiler was undergoing replacement at the time of issuance of this report).

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: cementitious mudded fitting insulation on fiberglass insulated piping; and exterior window frame caulk.

Exposed piping in the basement of the building is insulated with fiberglass. The pipe elbows have cementitious fittings which were found to contain 60% chrysotile asbestos. The fittings are generally in fair condition.

Exterior window caulking material was found to contain 5% chrysotile asbestos, respectively. The material is hard and is nonfriable. The caulking is unlikely to release asbestos fibers under normal conditions, but would have to be addressed if the windows are replaced. Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way. Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

5.0 ESTIMATED COST FOR ASBESTOS ABATEMENT

The estimated cost for asbestos abatement shown in Table 5-1 is provided solely for establishing removal and replacement costs for the DPW asbestos inventory database. The abatement estimate utilizes fixed unit costs for specific item descriptions. Abatement projects are to be estimated with respect to individual project requirements or conditions.

The estimated cost for abatement of the building (including thermal systems reinsulation) is $2,000. It should be noted that the cost estimate does not include removal of exterior materials such as roofing or window caulk. The cost estimate utilizes standard unit prices for removal of different types of asbestos-containing materials. When an actual asbestos abatement project is planned, a more precise estimate can be developed based on the specific work scope.

TABLE 5-1

RAINBOW BUILDING
MYSTIC EDUCATION CENTER
ASBESTOS ABATEMENT COST ESTIMATE

Item Description	Quantity	Unit	Unit Cost	Subtotal Cost
REMOVAL				
Thermal System Insulation	57	SF	$10.00	$0,570
SUB TOTAL REMOVAL				$0,570
REPLACEMENT				
Thermal System Insulation	57	SF	$10.00	$0,570
Thermal System Insulation		LF	$15.00	$0,00
Surfacing Material		SF	$10.00	$0,00
Miscellaneous Material		LF	N/A	
Miscellaneous Material		SF	N/A	
SUB TOTAL REPLACEMENT				$0,570
Construction				$1,140
Consultant (20%)				$0,228
Contingency (10%)				$0,137
TOTAL				$1,505
ABATEMENT ESTIMATE				**$2,000**

6.0. LIMITATIONS

The survey has the following limitations:

- DELTA's survey included an evaluation for the presence of asbestos-containing insulation on electrical equipment in the building. The inspection included building wiring, whips and fixtures. No suspect insulation was found. The inspection was designed to cover a representative portion of the building, since it was not feasible to examine all fixtures, junction boxes, etc.

- The survey did not utilize "destructive" sampling methods, and therefore may not have identified all of the asbestos-containing materials in the building. Specifically, the inspection did not include areas enclosed by walls or ceilings, unless these spaces could be accessed without damage.

- The survey did not include destructive sampling of furnishings such as chalkboards, corkboards, fire doors and benchtops.

- The survey attempted to access and identify asbestos-containing materials associated with HVAC and mechanical systems. However, such systems were not dismantled during the inspection. It is possible that boilers, furnaces, fan units and other devices may contain gaskets and other interior asbestos material which can only be accessed through dismantling them. Care should be taken to avoid the accidental disturbance of asbestos during maintenance or repair work on such devices.

APPENDIX A

Inventory of Identified Asbestos-Containing Material

RAINBOW HOUSE
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

4/9/01

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
BASEMENT													
	BOILER ROOM	1	PIPE FITTINGS	60%					20				ASB FITTINGS w/ FBGL PIPE INSUL
	LAUNDRY RM.	1	PIPE FITTINGS	60%					20				
	OIL TANK ROOM	1	PIPE FITTINGS	60%					17				

NOTE: EXTERIOR WINDOW CAULK CONTAINS ASBESTOS

APPENDIX B

Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Rainbow House
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222480 **Material Description:** Grey Fibrous
Client No.: 1 **Location:** Boiler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
60	Chrysotile	None Detected	None Detected	40

Lab No. 1222481 **Material Description:** Sample Not Analyzed
Client No.: 2 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1222482 **Material Description:** Sample Not Analyzed
Client No.: 3 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1222483 **Material Description:** Lt.Grey Jt.Compound
Client No.: 4 **Location:** Boiler Room; Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: Vane G. Smith, III
Vane G. Smith, III, AIHA-AAR 4719

Date: FEB 1 1 2001

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Rainbow House
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222484 **Material Description:** White Fibrous
Client No.: 5 **Location:** Boiler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	10	Synthetic	90

Lab No. 1222485 **Material Description:** White Fibrous
Client No.: 6 **Location:** Boiler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	60

Lab No. 1222486 **Material Description:** Dk.Grey Plaster
Client No.: 7 **Location:** Boiler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1222487 **Material Description:** Dk.Grey Plaster
Client No.: 8 **Location:** Boiler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith III
Vane G. Smith, III, AIHA-AAR 4719

Date: FEB

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Rainbow House
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222488 **Material Description:** Dk.Grey Plaster
Client No.: 9 **Location:** Boiler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1222489 **Material Description:** Brown/WhiteSheetrock
Client No.: 10 **Location:** Boiler Room; Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	30	Cellulose	70
		Trace	Fibrous Glass	

Lab No. 1222490 **Material Description:** Brown/WhiteSheetrock
Client No.: 11 **Location:** Boiler Room; Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80
		Trace	Fibrous Glass	

Lab No. 1222491 **Material Description:** White Joint Compound
Client No.: 12 **Location:** Boiler Room; Ceiling

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By:- Vane G. Smith, III

Date: FEB [illegible] Vane G. Smith, III, AIHA-AAR 4719

Approved By: Frank Ehrenfeld

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Rainbow House
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222492 **Material Description:** White Linoleum
Client No.: 13 **Location:** Ground Floor Porch

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Synthetic	80
		20	Cellulose	

Lab No. 1222493 **Material Description:** White Linoleum
Client No.: 14 **Location:** Ground Floor Porch

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Synthetic	80
		20	Cellulose	

Lab No. 1222494 **Material Description:** White Linoleum
Client No.: 15 **Location:** Ground Floor Porch

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Synthetic	80
		20	Cellulose	

Lab No. 1222495 **Material Description:** White Sheetrock
Client No.: 16 **Location:** Kitchen

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	1	Cellulose	99

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith III

Date: FEB 0 8 2001 Vane G. Smith, III, AIHA-AAR 4719

Approved By: Frank Ehrenfeld

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Rainbow House
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222496 **Material Description:** White Plaster
Client No.: 17 **Location:** Near Radiator At West Exit

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1222497 **Material Description:** White Plaster
Client No.: 18 **Location:** Near Radiator At West Exit

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC Trace	Chrysotile	None Detected	None Detected	100

Lab No. 1222498 **Material Description:** White Plaster
Client No.: 19 **Location:** Near Radiator At West Exit

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1222499 **Material Description:** Dk.Grey Floor Tile
Client No.: 20 **Location:** Near Radiator At West Exit; 12"

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.25	Chrysotile	Trace	Cellulose	PC 99.75

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vone G. Smith, III
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Date: FEB 0 5 2001

Approved By: Frank Ehrenfeld
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CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Rainbow House
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222500 **Material Description:** Dk.Grey Floor Tile
Client No.: 21 **Location:** Near Radiator At West Exit; 12"

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC Trace	Chrysotile	Trace	Cellulose	100

Lab No. 1222501 **Material Description:** Dk.Grey Floor Tile
Client No.: 22 **Location:** Near Radiator At West Exit; 12"

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.25	Chrysotile	Trace	Cellulose	PC 99.75

Lab No. 1222502 **Material Description:** Lt.Tan Glazing
Client No.: 23 **Location:** Attic; Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC Trace	Chrysotile	None Detected	None Detected	100

Lab No. 1222503 **Material Description:** White Sheetrock
Client No.: 24 **Location:** Attic

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Fibrous Glass	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith
Date: FEB Vane G. Smith, III, AIHA-AAR 4719

Approved By: Frank Ehrenfeld
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Laboratory Director

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16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Rainbow House
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222504 **Material Description:** Brown/WhiteSheetrock
Client No.: 25 **Location:** 2nd Floor; Bathroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	25	Cellulose	75

Lab No. 1222505 **Material Description:** White Linoleum
Client No.: 26 **Location:** Tan Mastic 2nd Floor; Bathroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80
		Trace	Synthetic	

Lab No. 1222505 **Material Description:** White Linoleum
Client No.: 26 **Location:** Tan Mastic 2nd Floor; Bathroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Tan Mastic				
From Above				

Lab No. 1222506 **Material Description:** White Linoleum
Client No.: 27 **Location:** Tan Mastic 2nd Floor; Bathroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80
		Trace	Synthetic	

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith
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Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

Date: FEB 9 2001

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16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/12/2001
Project: Mystic; Rainbow House
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222506 **Material Description:** White Linoleum
Client No.: 27 **Location:** Tan Mastic 2nd Floor; Bathroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Tan Mastic				
From Above				

Lab No. 1222507 **Material Description:** White Linoleum
Client No.: 28 **Location:** Tan Mastic 2nd Floor; Bathroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	2	Cellulose	98
		Trace	Synthetic	

Lab No. 1222507 **Material Description:** White Linoleum
Client No.: 28 **Location:** Tan Mastic 2nd Floor; Bathroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Tan Mastic				
From Above				

* **Lab No.** 1222508 **Material Description:** Grey Glazing
Client No.: 29 **Location:** Ground Floor; Window West Entrance

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 5.0	Chrysotile	None Detected	None Detected	95

* Different material than indicated on Sample Log/Description.

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: Vane G. Smith, III
Vane G. Smith, III, AIHA-AAR 4719

Date: FEB

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/20/2001
Project: Mystic; Rainbow House
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1222509 **Material Description:** Sample Not Analyzed
Client No.: 30 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1222510 **Material Description:** Sample Not Analyzed
Client No.: 31 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1222511 **Material Description:** Grey Glazing
Client No.: 32 **Location:** Attic; Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.50	Chrysotile	None Detected	None Detected	PC 99.5

Lab No. 1222512 **Material Description:** Grey Glazing
Client No.: 33 **Location:** Attic; Window

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.25	Chrysotile	None Detected	None Detected	PC 99.75

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: Vane G. Smith, III
Vane G. Smith, III, AIHA-AAR 4719

Date: FEB 2001

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories
16000 Horizon Way Unit 100 Mt. Laurel, NJ 0805
Telephone: 609.231.9449 Fax: 609.231.981

972/9

- Chain of Custody -

Client: Delta Environmental Services
P.O. Box 564
Branford, CT 06405

Project Name: Mystic Education Center
Project No.: Mystic, CT
D97-148-24

Phone: (203) 481-7668
FAX: (203) 488-8164

Contact: Jim McCarthy
Pager:

Special Instructions:

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[✓] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400
[ ] PCM : OSHA
[ ] PCM : Other_____

[ ] AAS : NIOSH 7082 (Air)
[ ] AAS : Lead in Drinking Water
[ ] AAS : Lead in Paint ASTM D3335-85a
[ ] AAS : Lead Dust/Wipe
[ ] AAS : Other Metals / Soil_____

[✓] PLM : Bulk Asbestos EPA 600
[ ] PLM : Point Counting 198.1
[ ] PLM : NOB via 198.1 (PLM only)
[ ] If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements **
(**call to confirm TAT!)

[ ] TEM : AHERA
[ ] TEM : NIOSH 7402
[ ] TEM : EPA Level II
[ ] TEM : Microvac Dust
[ ] TEM : Asbestos in Water
[ ] TEM : Bulk Analysis
[ ] TEM : NOB 198.4
[ ] TEM : Other_____
[ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ (date / time) Verbals: _____ (date / time)

[ ] 10 Day [ ] 5 Day [✓] 72 hour [✓] 48 hour [ ] 24 hour [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): _____ (start) - _____ (end)

IATL#(s): _____ (start) - _____ (end) Total:

Chain of Custody:

Relinquished:	June N McCarthy	Date: 2/6/01	Time: 5:00 pm
Received:		Date:	Time:
Sample Log-in:	CS 2/8 2000	Date:	Time:
Sample Prep:		Date: FEB 8 2001	Time:
Analyzed:	US 2/9/01	Date:	Time:
QA/QC Review:	NB	Date: 2/19/01	Time:

Archived/Released:_____ QA/QC InterLAB Use:_____ Date:_____ Time:_____

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: Rainbow House V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
1	Pipe Fitting						Asbestos PLM EPA 600 1222480 Positive Stop	Boiler Room				
2	↓						1222481 ↓	↓				
3	↓						1222482 ↓	↓				
4	Joint Compound						1222483	Boiler Room Ceiling				
5	Boiler Breeching						1222484	Boiler Room				
6	Pipe Fitting Wrap						1222485	↓				
7	Cement Wall Board						1222486 Positive Stop ↓	↓				
8	↓						1222487 ↓	↓				
9	↓						1222488 ↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P. McLaughlin	Delta			1		James P. McLaughlin			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: Rainbow House D97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
10	Sheetrock						Asbestos PLM EPA 600 1222489 positive stop	Boiler Room Ceiling				
11	↓						1222490 ↓	↓				
12	Joint Compound						1222491	↓				
13	Linoleum Tile 1						1222492 positive stop	Grand Floor Porch				
14	↓						1222493 ↓	↓				
15	↓						1222494 ↓	↓				
16	Sheetrock						1222495	Kitchen				
17	Plaster						1222496 positive stop	Near Radiator at West Exit				
18	↓						1222497 ↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P. McLaughlin	Delta			1		James P. McLaughlin			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7666

CHAIN-OF-CUSTODY RECORD

PROJECT NAME:	PROJECT LOCATION:	PROJECT NUMBER:
Mystic Education Center	Mystic, CT	Rainbow House D97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
19	Plaster						Asbestos PLM EPA 600 1222498	Near Radiator at West Exit				
20	Gray 12" Tile						1222499 Positive Stop	↓				
21	↓						1222500					
22	↓						1222501 ↓	↓				
23	Window Glaze						1222502	Attic				
24	Sheetrock						1222503	↓				
25	Plaster						1222504	2nd Floor Bathroom				
26	Linoleum Type 2						1222505 Positive Stop	↓				
27	↓						1222506 ↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7666

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-14E-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
28	Linoleum Tile 2						Asbestos PLM EPA 600 1222507	2nd Floor Bathroom				
29	Window Caulk						1222508 positive stop	Ground Floor West Entrance				
30	↓						1222509	↓				
31	↓						1222510 ↓	↓				
32	Window Glaze						1222511 positive stop	Attic				
33	↓						1222512 ↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P. McLaughlin	Delta			1		James P. McLaughlin			
ADDITIONAL COMMENTS:				2					
				3					
				4					

ChemScope INDUSTRIAL HYGIENE • ENVIRONMENTAL CHEMISTRY
P.O. BOX 389 FAIR HAVEN STATION, NEW HAVEN, CT 06513-0389
15 Moulthrop Street., North Haven, CT 06473-3686 • Phone (203) 865-5605 • Fax (203) 498-1610

RECEIVED MAR 23 2001

Certificate Of Analysis

Delta Environmental Services, Inc.
PO Box 564
81 Schoolground Road
Branford CT 06405

3/27/01
CS# 144-545

Bulk sample(s) from Mystic Education Center, received from customer on 3/27/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
144-545-1 White fibrous material (#34) / from boiler breeching - Rainbow House	*No Asbestos Detected* *70% Non- Fibrous Particles* *20% Synthetic Fibers* *10% Fiberglass*
144-545-2 White fibrous material (#35) / from boiler breeching - Rainbow House	*No Asbestos Detected* *65% Non- Fibrous Particles* *30% Synthetic Fibers* *5% Fiberglass*
144-545-3 Gray/brown crumbly insulation (#36) / on back of boiler - Rainbow House	*No Asbestos Detected* *60% Non- Fibrous Particles* *40% Mineral Wool*

NVLAP ACCREDITED LAB# 101061-0

Bulk sample(s) from Mystic Education Center, received from customer on 3/27/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**

AIHA Bulk Asbestos Proficiency Analytical Testing (PAT) Program. PAT Proficient Lab #100134
Accreditation by the National Institute of Standards and Technology/National Voluntary Lab Accreditation Program (NVLAP) does not imply endorsement by this Federal Agency.
This report pertains only to the samples tested and may not be reproduced in part.
The scope of Accreditation referenced in this report pertains to bulk asbestos analysis by PLM.
Connecticut Approved Environmental Lab PH 0581
See test parameters on reverse side of this report.

Signature (if applicable)	**Signature (if applicable)**	***Authorized Signature:***	**or**	***Authorized Signature:***
Analyst	**Inspector**	***Ronald D. Arena*** ***Director***		***Suzanne Cristante*** ***QA Coordinator***

NVLAP ACCREDITED LAB# 101061-0

144-545

Rec. 3-27-01

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405

(203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center – Rainbow House

PROJECT LOCATION:

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
34	Boiler breeching						Asbestos PLM	please rush				
35	↓						↓	↓				
36	Insulation on back of boiler						↓	Normal Turnaround				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME
Jane R Melanthes	Delta	3/26/01	1:00 p.m

TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
1	34-36	Jane R. Melanthes	G. Patricelli	3-27-01	9:36 am
2					
3					
4					

ADDITIONAL COMMENTS:

APPENDIX C

Laboratory and Inspector Accreditations

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT - INSP/MGMT PLANNER

LICENSE NO.
000044
CURRENT THROUGH
02/28/01
VALIDATION NO.
00-321886

JAMES P. MCCARTHY

SIGNATURE

COMMISSIONER, DEPT. OF PUBLIC HEALTH

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

CHEMSCOPE, INC.
NORTH HAVEN, CT

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

BULK ASBESTOS FIBER ANALYSIS

March 31, 2002
Effective through

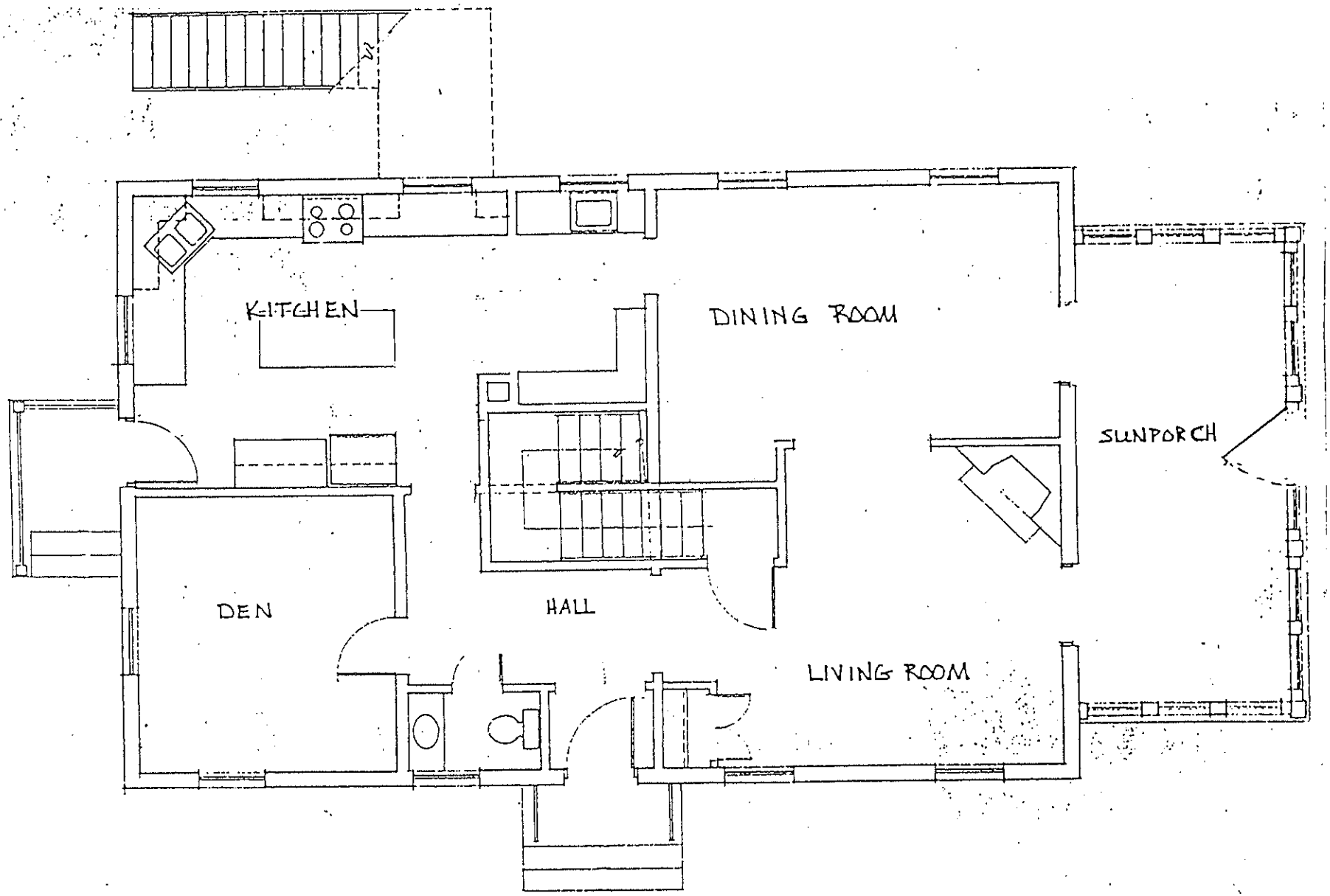
David F. Alderman
For the National Institute of Standards and Technology

NVLAP Lab Code: 101061-0

NVLAP-01C (11-95)

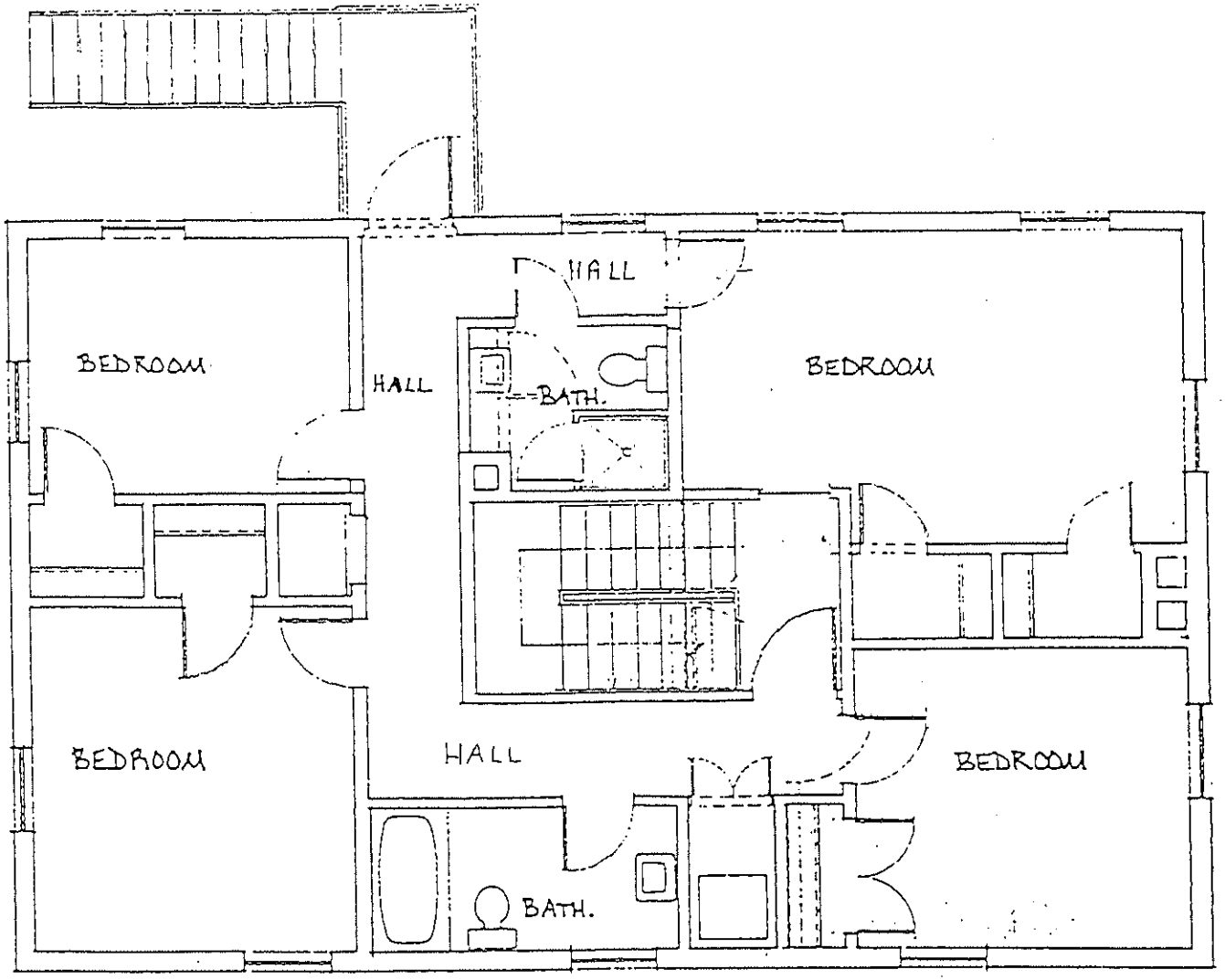
APPENDIX D

Building Diagrams

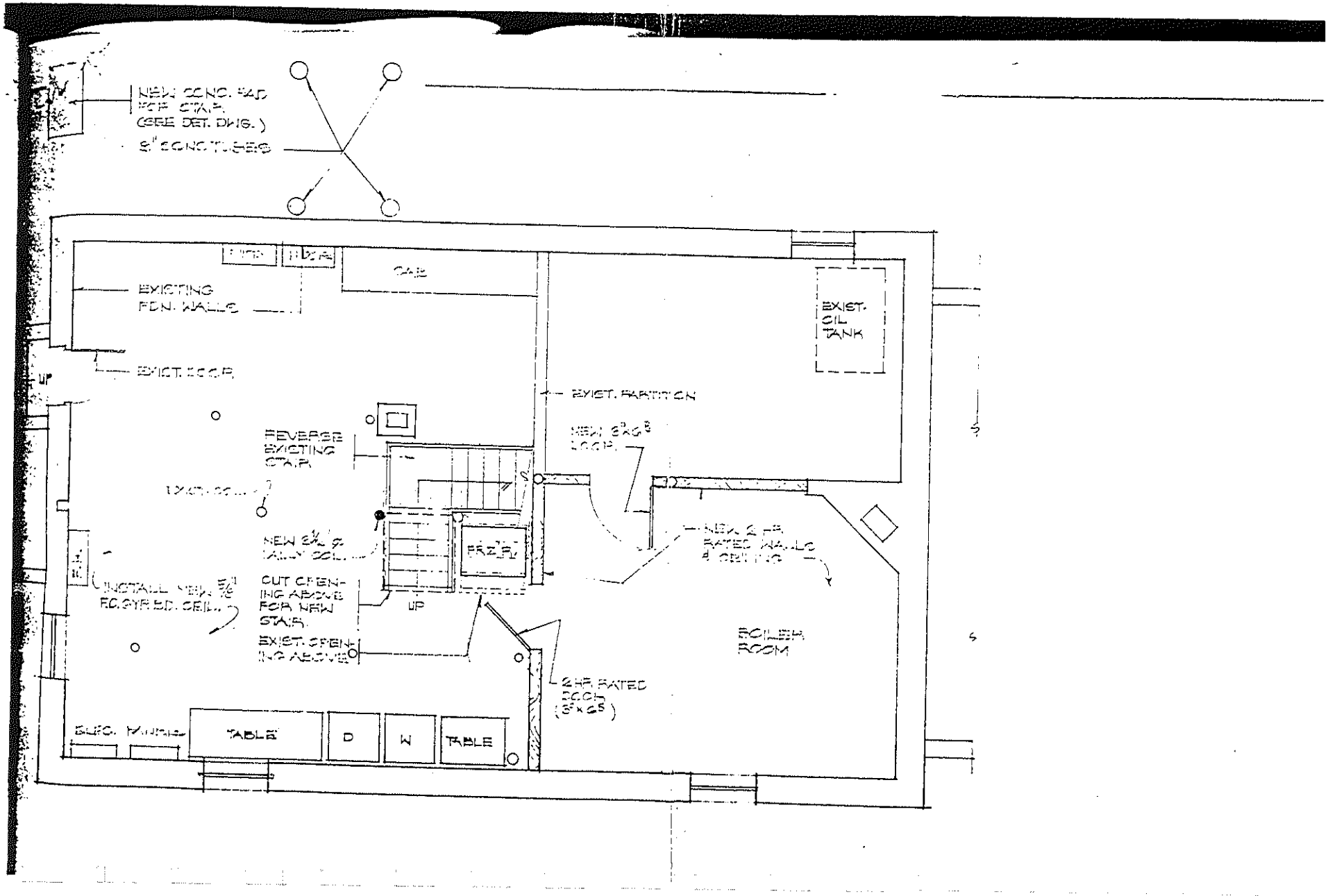


FIRST FLOOR PLAN

KAINBOW HOUSE



SECOND FLOOR PLAN


NEW CONC. PAD FOR STAIR (SEE DET. DWG.)
8" CONC. TUBES
EXISTING FDN. WALLS
EXIST. DOOR
UP
CAB
EXIST. OIL TANK
EXIST. PARTITION
REVERSE EXISTING STAIR
NEW 3"x6" DOOR
NEW 2 HR RATED WALLS & CEILING
FRZ'R
CUT OPENING ABOVE FOR NEW STAIR
EXIST. OPENING ABOVE
UP
INSTALL NEW 5/8" F.C. GYP. BD. CEIL.
BOILER ROOM
2 HR RATED DOOR (3"x6")
TABLE
D
W
TABLE

TRC
Customer-Focused Solutions

REPORT

PRE-RENOVATION INVESTIGATIVE SURVEY FOR ASBESTOS-CONTAINING MATERIALS MYSTIC EDUCATIONAL CENTER – RAINBOW HOUSE MYSTIC, CONNECTICUT

Project No. RM-06-07
DPW No. 16951

Prepared for

State of Connecticut
Department of Public Works
Hartford, Connecticut

Prepared by

TRC Environmental Corporation
Windsor, Connecticut

February 20, 2007

21 Griffin Road North
Windsor, CT 06095

860.298.9692 PHONE
860.298.6399 FAX

www.TRCsolutions.com

February 21, 2007

Mr. David Arute
Facilities Management
State Office Building
165 Capitol Avenue
Hartford, CT 06106

Re: Survey Report for Mystic Educational Center – Rainbow House, 240 Oral School Road, Mystic, Connecticut
Project No.: RM-06-07
DPW Building No.: 16951
TRC Project No.: 43500-5760-00001

Dear Mr. Arute:

Enclosed are two copies of the report for the asbestos survey conducted in January, 2007 at the Rainbow House at Mystic Educational Center.

Please contact me at (860) 298-6222 if have any questions concerning the report.
Very truly yours,

TRC ENVIRONMENTAL CORPORATION

Donald LePage

Donald LePage
Project Manager

cc: James Sinclair, DPW

TRC

PRE-RENOVATION INVESTIGATIVE SURVEY FOR ASBESTOS-CONTAINING MATERIALS MYSTIC EDUCATIONAL CENTER – RAINBOW HOUSE MYSTIC, CONNECTICUT

Project No. RM-06-07
DPW No. 16951

Prepared for
State of Connecticut
Department of Public Works
Hartford, Connecticut

Prepared by
TRC Environmental Corporation
Windsor, Connecticut

Donald LePage
Project Manager

TRC Project No. 43500-5760-00001
February 20, 2007

TRC Environmental Corporation
21 Griffin Road North
Windsor, Connecticut 06095
Telephone (860) 298-9692
Facsimile (860) 298-6399

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2	IDENTIFIED ASBESTOS CONTAINING MATERIALS
3	CONFIRMED NON-ASBESTOS CONTAINING MATERIALS

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A	LABORATORY AND INSPECTOR ACCREDITATIONS
B	ASBESTOS BULK SAMPLE CHAIN OF CUSTODY FORMS
C	PLM LABORATORY ANALYSIS DATA
D	RELATED CORRESPONDENCE

EXECUTIVE SUMMARY

On January 9, 2007 TRC Environmental Corporation (TRC) of Windsor, Connecticut conducted an inspection for suspect asbestos-containing materials (ACM) at the Mystic Educational Center – Rainbow House in Mystic, Connecticut. The inspection was initiated prior to planned renovation activities in accordance with USEPA Asbestos National Emissions Standard for Hazardous Air Pollutants (NESHAPS) requirements.

The scope of the inspection was limited to the kitchen ceiling areas at the subject building. A Connecticut licensed asbestos inspector from TRC conducted the inspection in accordance with USEPA AHERA protocols and ASTM Standard E2356-04. Bulk samples of suspect materials were collected and analyzed via polarized light microscopy (PLM) method at CTDPH/NVLAP accredited laboratories. No ACM was identified in the subject area. ACM to be impacted by renovation activities must be removed prior to disturbance in accordance with OSHA, USEPA, CTDPH, and CTDEP standards for asbestos abatement/disposal. Detailed results of the asbestos survey can be found in Tables 1-3 and Appendices A through D.

PROJECT OUTLINE

Project Address:	Mystic Educational Center – Rainbow House 240 Oral School Road Mystic, CT
DAS Contract No.	03PSX0346E
DPW Project Manager	James Sinclair
DPW Project No.:	RM-06-07
DPW Building No:	16951
TRC Project No.:	43500-5760-00001
TRC Project Manager:	Don LePage
Asbestos Inspector:	Maureen Grissom (LIC #000663)
Date of Inspection:	1/9/07
Asbestos Identified:	None

Additional Notes:

The site investigation was limited to the collection and analysis of suspect asbestos-containing materials from within the kitchen ceiling areas of the building.

TABLES

TABLE 1 BULK SAMPLE SUMMARY OF SUSPECT ASBESTOS CONTAINING MATERIALS MYSTIC EDUCATIONAL CENTER – RAINBOW HOUSE MYSTIC, CONNECTICUT			
Sample No.	**Sample Location**	**Homogeneous Material**	**% and Type Asbestos**
1	Kitchen ceiling – B/C corner above skim coat & drywall	Grey plaster	ND<1%
2	Kitchen ceiling – C/D corner above skim coat & drywall	Grey plaster	ND<1%
3	Kitchen ceiling – D wall above skim coat & drywall	Grey plaster	ND<1%
4	Kitchen ceiling – B/C corner	White skim coat	ND<1%
5	Kitchen ceiling – C/D corner	White skim coat	ND<1%
6	Kitchen ceiling – D wall	White skim coat	ND<1%
7	B/C corner above skim coat, drywall & plaster ceiling	Tan/grey insulation	ND<1%
8	C/D corner above skim coat, drywall & plaster ceiling	Tan/grey insulation	ND<1%
9	D wall above skim coat, drywall & plaster ceiling	Tan/grey insulation	ND<1%
10	B/C corner above skim coat	Beige/grey drywall	ND<1%
11	C/D corner	Beige/grey drywall	ND<1%
12	D wall	Beige/grey drywall	ND<1%

NA/PVA Not analyzed/positive via inseparable association with a confirmed positive ACM
NA/PS Not analyzed/positive stop, homogeneous to sample proven to contain asbestos
ND<1% Non-detected, less than 1%
NAD No asbestos detected
+ Although found to be negative by analysis, material is homogeneous to a determined ACM and therefore must be considered positive
1 NOB material; result confirmed by TEM analyses
* Quantified by PLM Point Counting techniques

TABLE 2 IDENTIFIED ASBESTOS CONTAINING MATERIALS (>1%) MYSTIC EDUCATIONAL CENTER – RAINBOW HOUSE MYSTIC, CONNECTICUT
NO ASBESTOS CONTAINING MATERIALS WERE IDENTIFIED IN THE SUBJECT AREA

AHERA Categories = thermal system insulation (TSI), surfacing material or miscellaneous
NESHAP Categories = friable, category I non-friable or category II non-friable
Friable = crumbled, pulverized or reduced to powder by hand pressure when dry
Category I Non-friable = packings, gaskets, resilient floor covering and asphalt roofing
Category II Non-friable = all non-friable that is not Category I

TABLE 3 CONFIRMED NON-ASBESTOS CONTAINING MATERIALS MYSTIC EDUCATIONAL CENTER – RAINBOW HOUSE MYSTIC, CONNECTICUT	
Material	**General Location**
Grey plaster	Kitchen ceiling
White skim coat	Kitchen ceiling
Tan/grey insulation	Kitchen ceiling
Beige/grey drywall	

APPENDIX A

LABORATORY AND INSPECTOR ACCREDITATIONS

Health Care or Environmental Health Professional's License Status

This site is part of **CT-clic.com**, the **Connecticut Licensing Info Center**, that links to all YOUR State licensing and registration needs.

Note: Requests for copies of documents related to past disciplinary action for professions other than physicians may be emailed as such documents are not currently available via this web site. Please include your name and telephone number on any request.

License Type:	Asbestos Consultant - Inspector
License Number:	000663
Name:	GRISSOM, MAUREEN
Expiration Date:	1/31/2008
Granted Date:	1/10/2007
License Name:	Maureen Grissom
License Status:	Current
Disciplinary Action:	None

Questions ? ?

E-mail webmaster.dph@po.state.ct.us or call (860) 509-7603
Return to DPH Licensure/Renewal Page

For Business Registry Questions? Contact **Smart** or call **1-800-392-2122.**

State of Connecticut Disclaimer and Privacy Policy. Copyright @ 2000 State of Connecticut. Universal Website Accessibility Policy applies. For comments about this site contact the webmaster

CERTIFICATE OF ACHIEVEMENT

This certifies that

Maureen Grissom

has successfully completed the

24 Hour Asbestos Site Inspector Training
Asbestos Accreditation Under TSCA Title II
40 CFR Part 763

conducted by

ATC Associates Inc.
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Official record of successful completion of this Course is the DOH2832 Certificate issued on October 25, 2006.

Gregory J. Morsch
Principal Instructor

October 23-25, 2006
Date of Course

October 25, 2007
Expiration Date

Gregory J. Morsch
Regional Manager

SI-1263
Certificate Number

October 25, 2006
Examination Date

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

TRC ENVIRONMENTAL CORPORATION

LOCATED AT 21 Griffin Road North IN Windsor, CT 06095

AND REGISTERED IN THE NAME OF Richard A. Love

THIS CERTIFICATE IS ISSUED IN THE NAME OF Henry Laliberte WHO HAS BEEN DESIGNATED BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

ASBESTOS
AIR-FIBER COUNTING - PCM
BULK IDENTIFICATION - PLM

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES December 31, 2007 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 22ND DAY OF DECEMBER 2005

Registration No.

PH- 0426

Ellen J. Blaschinski

CHIEF, REGULATORY SERVICES BRANCH

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:1999

NVLAP LAB CODE: 101424-0

TRC Environmental Corporation

Windsor, CT

is recognized by the National Voluntary Laboratory Accreditation Program for conformance with criteria set forth in NIST Handbook 150:2001 and all requirements of ISO/IEC 17025:1999.
Accreditation is granted for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

2006-07-01 through 2007-06-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

NVLAP-01C (REV. 2005-05-19)

National Voluntary
Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:1999

TRC Environmental Corporation
21 Griffin Road North
Windsor, CT 06095
Mr. Henry Laliberte
Phone: 860-298-9692 Fax: 860-298-6399
E-Mail: hlaliberte@TRCSolutions.com
URL: http://www.trcsolutions.com

BULK ASBESTOS FIBER ANALYSIS (PLM) **NVLAP LAB CODE 101424-0**

NVLAP Code	*Designation / Description*
18/A01	EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

2006-07-01 through 2007-06-30
Effective dates

Sally S. Bruce
For the National Institute of Standards and Technology

NVLAP-01S (REV. 2005-05-19)

APPENDIX B

ASBESTOS BULK SAMPLE CHAIN OF CUSTODY FORMS

TRC
Customer-Focused Solutions

5 Waterside Crossing
Windsor, Connecticut 06095
Telephone 860-298-9692

CHAIN OF CUSTODY RECORD

PROJECT NO. 43500-5760 00001

PROJECT NAME CT DPW-Mystic Educational center Rainbow House. 240 ORAL School Rd Mystic CT

PARAMETERS: 33214

SAMPLERS: (Signature) Maureen Grisson

(Printed) Maureen Grisson

FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS									REMARKS
1	1/09/07				~~Above~~ Above S.C. & Drywall B/C corner Kitchen Ceiling										Plaster Grey
2	2				C/D " Corner " "										
3	3				Dwall										
4	4				B/C corner Kitchen Ceiling										Skim Coat White
5	5				C/D corner										
6	6				Dwall										
7	7				Above S.C. Drywall & B/C corner Plaster Ceiling										Insulation Tan/Grey
8	8				C/D corner										
9	9				Dwall										
10	10				Above S.C. B/C corner										Drywall Beige/Grey
11	11				C/D corne										
12	12				Dwall										

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Maureen Grisson	1/11/07				
(Printed) Maureen Grisson		(Printed)	(Printed)		(Printed)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
			1/11/07 1600	Reg T.A.T. P.S. After the first in each series (confirm w/Don L.)	
(Printed)		(Printed)			

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

APPENDIX C

PLM LABORATORY ANALYSIS DATA

TRC ENVIRONMENTAL CORPORATION
Environmental Chemistry Laboratory
21 Griffin Road North
Windsor, CT 06095
(860) 298-6308

BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Public Works

Site: Mystic Educational Center, Rainbow House, 240 Oral School Road, Mystic, CT
Lab Log #: 33214
Project #: 43500-5760-00001
Date Received: 01/11/07
Date Analyzed: 01/12/07

RESULTS

Sample No.	Color	Homogeneous	Multi-Layered	Layer No.	Other Matrix Mat'ls	Asbestos %	Asbestos Type
1	Grey	Yes	No	--	--	ND<1%	None
2	Grey	Yes	No	--	--	ND<1%	None
3	Grey	Yes	No	--	--	ND<1%	None
4	White	Yes	No	--	--	ND<1%	None
5	White	Yes	No	--	--	ND<1%	None
6	White	Yes	No	--	--	ND<1%	None
7	Tan/Grey	Yes	No	--	60% mineral wool	ND<1%	None
8	Tan/Grey	Yes	No	--	60% mineral wool	ND<1%	None
9	Tan/Grey	Yes	No	--	60% mineral wool	ND<1%	None
10	Beige/Grey	Yes	No	--	--	ND<1%	None
11	Beige/Grey	Yes	No	--	--	ND<1%	None
12	Beige/Grey	Yes	No	--	--	ND<1%	None

Reporting limit- asbestos present at 1%
ND<1% - asbestos was not detected
Trace- asbestos was observed at level of less than 1%

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, negative results must be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation (1982), and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey which utilizes polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2007. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through February 1, 2008. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and the QC data related to the samples is available upon written request from the client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

Analyst: Katbleen Williamson

QC Analyst: Kathleen Williamson

Reviewed by: _____
Laboratory Analyst

Approved Signatory: Henry J. Laliberte
Henry J. Laliberte
Laboratory Manager

Date Issued: 1/15/07

APPENDIX D

RELATED CORRESPONDENCE

TRC

SITE LOG

Page 6

Site / Station: CT DPW Mystic Educational Center, 240 Old School Rd, Mystic, CT

Month / Year: ~~01/09~~ 01/07

Project No: 43 500 · 5760 · 00001

Date	Time	Instrument and TRC ID	Comments	Initials
01/09	0930		Arrive at Site met with Harold Monroe	
			at administration Bldg at Mystic	
			Educational center. He would like the	
			ceiling in the kitchen (to be tested) right	
			below the the upstairs bathroom they	
			are remodeling the bathroom and	
			would like to put an access panel	
			in the ceiling that they will be removing	
			befor demo they want to be sure	
			the plaster ceiling does not contain	
			asbestos. the ceiling is intact	
			you ~~a~~ can see patches on where	
			work has been done in the past.	
			After placing several small holes in	
			ceiling I find that the ceiling is	
			not plaster but skimcoat and drywall	
			I explained this to Harold who said	
			it was fine then as that we can leave	
			it.	
	1020		TRC off Site.	
	1115		Called & left Message for D. LePage	
	1230		After speaking with D. LePage he said I	
			should call Harold and go back out and	
			sample skimcoat & dry wall. I	
			called Harold & explained that skim coat	
			is just as likely if not more likely to ~~contain~~	
			be ACM as plaster. He said ok please come back	
			out.	
	1400		Arrive at Site did ~~More~~ sampling after taking	
			samples I felt around above ceiling and found loose	
			pieces of plaster took 3 seperate samples along w/	
	1430		insulation above ceiling. 3 skim coat & 3 dry wall TRC	
			off site	

TO - JACKIE FOR FILE

Anteon corporation

Engineering & Information Technologies Group
ETC Division

FAX Cover Sheet

Date: 2/26/01 **Time:** 3:30 AM/PM

To: George Niles, DPW
860 713-7263

From: Barry Sneed for David Horne

Subject: Mystic Facility Buildout

Comments: A hard copy was sent to you today via FedEx

Number of Pages (including cover sheet): 24

If transmission is incomplete or illegible, please call and let us know.

Telephone No.: (860) 572-9600
1st Floor FAX: (860) 572-7328
2nd Floor FAX: (860) 572-1965

ETC Division 240 Oral School Road Mystic, CT 06355-1208

COPY

Mystic Air Quality Consultants, Inc.
1204 North Road (Rt. 117) Groton, Connecticut 06340

February 21, 2001

Mr. David Durham
Timahoe Associates
32 Windham Avenue
Mystic, Connecticut 06355

Re: **Executive Summary**
Directed and Limited Site Review – Hallway to be Renovated
Asbestos Containing Materials & Lead-in Paint
(Antheon Rental Space to be Renovated)
Mystic Educational Center, Mystic CT

Dear Mr. Durham:

As requested Mystic Air Quality Consultants, Inc. conducted a site review as directed of the space in the Mystic Educational Center intended for future use by Antheon.

Asbestos-containing and Asbestos-contaminated Materials

In summary, the materials shown to be asbestos-containing are the pipe insulations in the chase room and the glue daubs behind the blackboards (chalkboards) in the specified area. Additionally, the chalkboards are contaminated by the glue daubs.

Lead in Paint

For the most part the representative samples of paint had lead detected at concentrations (above 0.5%) that are considered toxic to children and expectant women, when applying the criteria of the State of Connecticut lead poisoning prevention regulations. For purpose of your future work, all painted surfaces should be considered lead painted.

Implications of the Review and Lab Results

Prior to renovations, an asbestos abatement contractor licensed by the State of Connecticut will have to be hired to extract any asbestos-containing (pipe insulation and glue daubs) and asbestos contaminated materials (blackboards) from the site, if they are to be disturbed by renovation activity. The contractor is required to employ properly trained and certified workers who must follow work procedures and practices for handling and disposing asbestos as stipulated in federal and state standards.

Communications (24 hours):
Office: (860) 449-8903 FAX: (860) 449-8860 Toll Free: 1 (800) 247-7746
website: www.mysticair.com e-mail:maqc2@aol.com

Mystic Air Quality Consultants, Inc.
1204 North Road (Rt. 117) Groton, Connecticut 06340

All contractors working around the leaded paint have to implement their corporate Lead Health and Safety program as stipulated by federal OSHA in its Construction Standard for Lead (29 CFR 1926.62). Paint and painted materials to be discarded will have to be subjected to TCLP analysis to see if they have to be disposed as lead waste.

Limitations of the Site Review

This site review was directed and limited to the specific areas noted above and this inspection and the report make no presentations about other materials in accessible areas or materials that may be found once demolition or renovation begins and areas behind walls, under floors, and above ceilings are exposed. This is especially true at this site concerning pipe insulation.

This survey only addresses asbestos and lead in paint and does not make any representations about other hazardous or potentially hazardous materials or regulated wastes that are typically considered during building demolition or renovation such as PCBs in lighting ballasts, mercury in fluorescent lights or in thermostats, fuel oil tanks, electric and gas utilities, or any site specific items related to manufacturing or commercial processes or activities that were historically carried on at this location.

Supporting Documentation

The asbestos portion of the supporting documentation includes the lab results (enclosure 1), a list of the materials found to be asbestos-containing and asbestos-contaminated (enclosure 2), a roster of tested materials in which no asbestos was detected with polarized light microscopy (enclosure 3), and the chains of custody from the site to Mystic Air (enclosure 4) and to EMSL from Mystic Air (enclosure 5). EMSL Analytical is the NVLAP accredited lab in Manhattan, New York where the materials samples were analyzed for asbestos content and identification. Any sample with more than 1% asbestos is considered asbestos-containing.

The supporting material pertinent to the lead in paint includes the lab results for the paint chips (enclosure 6) and the chains of custody from Mystic Air to EMSL (enclosure 7). The Westmont, New Jersey branch of EMSL Analytical is the ELAP accredited lab at which the paint chip samples were analyzed. There is an additional statement, presented as enclosure 8, relating OSHA Lead in Construction considerations attached for reference by the owner, employer of occupants, and contractors who may work at this site.

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Mystic Air Quality Consultants, Inc.
1204 North Road (Rt. 117) Groton, Connecticut 06340

Further Services

Mystic Air Quality Consultants, Inc would be happy to provide abatement specifications for the removal of the asbestos containing and contaminated materials at this site. We would also provide lead abatement specifications, lead paint management program documentation or lead health and safety plans for contractors to work at the site. A third type of item available for compilation would be appropriate OSHA mandated hazard communication statements to occupants and contractors if this becomes a multi employer job site relative to asbestos and a hazard communication to the same cross section of audiences regarding leaded paint.

Thank you for selecting Mystic Air Quality Consultants, Inc. for these services. If you have any questions or would like further services, please do not hesitate to call.

Sincerely,

Christopher J. Eident, CIH, CSP, RS
C.E.O.
CT State certified lead paint inspector, risk assessor and project planner
CT State licensed asbestos inspector, management planner, and project designer

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website: www.mysticair.com e-mail:maqc2@aol.com

EMSL Analytical, Inc.
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Attn.: Rich Haffey
Mystic Air Quality Consultants, Inc.
1204 North Road (Rt. 117)
Groton, CT 06340

Friday, February 16, 2001

Ref Number: NY011628

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project: MYSTIC EDUCATION CENTER

Sample	Location	Appearance	Sample Treatment	ASBESTOS % Type	NON-ASBESTOS % Fibrous	% Non-Fibrous
1	BROWN FLOOR COVERING / HALLWAY	Brown Fibrous Heterogeneous	Teased/Dissolved	None Detected	20% Cellulose	10% Mica 30% Matrix 40% Other
2	BROWN FLOOR COVERING / HALLWAY	Brown Fibrous Heterogeneous	Teased/Dissolved	None Detected	18% Cellulose	12% Mica 35% Matrix 35% Other
3	BROWN FLOOR COVERING / HALLWAY	Brown Fibrous Heterogeneous	Teased/Dissolved	None Detected	22% Cellulose	18% Mica 30% Matrix 30% Other
4	WALL PLASTER / CLASSROOM #1	White/Brown Non-Fibrous Heterogeneous	Crushed/Dissolved	None Detected	3% Cellulose	20% Quartz 37% Ca Carbonate 40% Matrix
5	WALL PLASTER / CLASSROOM #4	Brown/White Non-Fibrous Heterogeneous	Crushed/Dissolved	None Detected	1% Cellulose	15% Quartz 39% Ca Carbonate 45% Matrix
6	WALL PLASTER / ROOM #A133	Brown/White Non-Fibrous Heterogeneous	Crushed/Dissolved	None Detected	2% Cellulose	18% Quartz 45% Ca Carbonate 35% Matrix

Comments: For all obviously heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. Also, "# of Layers" refers to number of separable subsamples.

* NY samples analyzed by ELAP 198.1 Method.

Gulam Machhiwala
Analyst

José Arriaga
Approved Signatory

Disclaimers: PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. EMSL suggests that samples reported as <1% or none detected be tested with either SEM or TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.
Analysis performed by EMSL Manhattan (NVLAP Lab Code 101048-0, E-LAP #11508).

EMSL Analytical, Inc.
307 West 38th Street
New York, NY 10018
Phone: (212) 290-0051 Fax: (212) 290-0058

Attn.: Rich Haffey
Mystic Air Quality Consultants, Inc.
1204 North Road (Rt. 117)
Groton, CT 06340

Friday, February 16, 2001

Ref Number: NY011626

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project: MYSTIC EDUCATION CENTER

Sample	Location	Appearance	Sample Treatment	ASBESTOS %	ASBESTOS Type	NON-ASBESTOS %	NON-ASBESTOS Fibrous	NON-ASBESTOS %	NON-ASBESTOS Non-Fibrous
7	12X12 WALL PANEL / CLASSROOM #1	Brown/White Fibrous Heterogeneous	Crushed/Dissolved	None Detected		70%	Cellulose	10%	Ca Carbonate 20% Other
8	12X12 WALL PANEL / CLASSROOM #3	Brown/White Fibrous Heterogeneous	Crushed/Dissolved	None Detected		68%	Cellulose	12%	Ca Carbonate 20% Other
9	12X12 WALL PANEL / CLASSROOM #5	Brown/White Fibrous Heterogeneous	Crushed/Dissolved	None Detected		75%	Cellulose	10%	Ca Carbonate 15% Other
10	12X12 WALL PANEL / ABOVE CEILING ROOM #A134	Brown Fibrous Heterogeneous	Crushed/Dissolved	None Detected		80%	Cellulose	20%	Other
11	12X12 WALL PANEL / ABOVE CEILING ROOM #A134	Brown Fibrous Heterogeneous	Crushed/Dissolved	None Detected		78%	Cellulose	22%	Other
12	12X12 WALL PANEL / ABOVE CEILING ROOM #A134	Brown Fibrous Heterogeneous	Crushed/Dissolved	None Detected		82%	Cellulose	18%	Other

Comments: For all obviously heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. Also, "# of Layers" refers to number of separable subsamples.

* NY samples analyzed by ELAP 198.1 Method.

José Arriaga

Gulam Machhiwala
Analyst

Approved
Signatory

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Analysis performed by EMSL Manhattan (NVLAP Air and Bulk #101048-0, ELAP #11506)

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Groton, CT 06340

Friday, February 16, 2001

Ref Number: NY011628

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project: MYSTIC EDUCATION CENTER

Sample	Location	Appearance	Sample Treatment	ASBESTOS % Type	NON-ASBESTOS % Fibrous	% Non-Fibrous
13	BROWN GLUE DAUBS / CLASSROOM #1	Brown Fibrous Heterogeneous	Teased/Dissolved	None Detected	22% Cellulose	30% Matrix 48% Other
14	BROWN GLUE DAUBS / CLASSROOM #3	Brown Fibrous Heterogeneous	Teased/Dissolved	None Detected	20% Cellulose	35% Matrix 45% Other
15	BROWN GLUE DAUBS / CLASSROOM #3	Brown Fibrous Heterogeneous	Teased/Dissolved	None Detected	25% Cellulose	25% Matrix 50% Other
16	BLACK GLUE DAUBS / CLASSROOM #5	Brown Fibrous Heterogeneous	Teased/Dissolved	6% Anthophylite	14% Cellulose	30% Matrix 50% Other
17	BLACK GLUE DAUBS / ROOM #A134	Brown Fibrous Heterogeneous	Teased/Dissolved	5% Anthophylite	15% Cellulose	35% Matrix 45% Other
18	BLACK GLUE DAUBS / ROOM #A134	Brown Fibrous Heterogeneous	Teased/Dissolved	7% Anthophylite	13% Cellulose	32% Matrix 48% Other

Comments: For all obviously heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. Also, "# of Layers" refers to number of separable subsamples.
* NY samples analyzed by ELAP 198.1 Method.

Gulam Machhiwala
Analyst

José Arriaga
Approved Signatory

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Analysis performed by EMSL Manhattan (NVLAP Air and Bulk #101048-0, P-LAP #11508)

3

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1204 North Road (Rt. 117)
Groton, CT 06340

Friday, February 16, 2001

Ref Number: NY011626

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project: MYSTIC EDUCATION CENTER

Sample	Location	Appearance	Sample Treatment	ASBESTOS % Type	NON-ASBESTOS % Fibrous	% Non-Fibrous
19	CHALKBOARD / CLASSROOM #5	Black/Clear Fibrous Heterogeneous	Crushed	None Detected	5% Cellulose	95% Other
20	CHALKBOARD / CLASSROOM #6	Black/Clear Fibrous Heterogeneous	Crushed	None Detected	7% Cellulose	93% Other
21	CHALKBOARD / CLASSROOM #5	Black/Clear Fibrous Heterogeneous	Crushed	None Detected	6% Cellulose	94% Other
22	BLACKBOARD, GLUE DAUBS / CLASSROOM 5	Black Fibrous Heterogeneous	Teased/Dissolved	8% Chrysotile	5% Cellulose	12% Quartz 25% Matrix 50% Other
23	BLACKBOARD, GLUE DAUBS / CLASSROOM 5	Black Fibrous Heterogeneous	Teased/Dissolved	10% Chrysotile	10% Cellulose	10% Quartz 25% Matrix 45% Other
24	BLACKBOARD, GLUE DAUBS / CLASSROOM 5	Black Fibrous Heterogeneous	Teased/Dissolved	7% Chrysotile	8% Cellulose	15% Quartz 30% Matrix 40% Other

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* NY samples analyzed by ELAP 198.1 Method.

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Analyst

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Analysis performed by EMSL Manhattan (NVLAP Air and Bulk #101048-0, E-LAP #11506)

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1204 North Road (Rt. 117)
Groton, CT 06340

Friday, February 16, 2001

Ref Number: NY011626

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project: MYSTIC EDUCATION CENTER

Sample	Location	Appearance	Sample Treatment	ASBESTOS % Type	NON-ASBESTOS % Fibrous	% Non-Fibrous
25	PLASTER WALL BEHIND CHALKBOARD / CLASSROOM #5	White Non-Fibrous Heterogeneous	Crushed/Dissolved	None Detected	2% Cellulose	35% Quartz 18% Ca Carbonate 45% Matrix
26	PIPE INSULATION / CHASE ROOM	Brown/White Fibrous Heterogeneous	Crushed/Dissolved	12% Chrysotile	78% Cellulose	10% Other
27	PIPE INSULATION / CHASE ROOM	Brown/Black Fibrous Heterogeneous	Teased/Dissolved	5% Chrysotile	85% Cellulose	10% Other
28	PIPE INSULATION / CHASE ROOM	Beige Fibrous Heterogeneous	Crushed/Dissolved	45% Chrysotile	None Detected	10% Other 40% Ca Carbonate 5% Matrix
29	RED BRICK / CHASE ROOM	Red Non-Fibrous Heterogeneous	Crushed/Dissolved	None Detected	3% Cellulose	10% Quartz 37% Ca Carbonate 50% Matrix
30	RED BRICK / CHASE ROOM	Red Non-Fibrous Heterogeneous	Crushed/Dissolved	None Detected	2% Cellulose	18% Quartz 30% Ca Carbonate 50% Matrix

Comments: For all obviously heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. Also, "# of Layers" refers to number of separable subsamples.
* NY samples analyzed by ELAP 198.1 Method.

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Analysis performed by EMSL Manhattan (NVLAP AK and Bulk #101048-0, ELAP #11500)

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Friday, February 16, 2001

Ref Number: NY011626

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project: MYSTIC EDUCATION CENTER

Sample	Location	Appearance	Sample Treatment	ASBESTOS % Type	NON-ASBESTOS % Fibrous	% Non-Fibrous
37	WHITE BRICK / CHASE ROOM	White Non-Fibrous Heterogeneous	Crushed/Dissolved	None Detected	None Detected	20% Quartz 55% Ca Carbonate 25% Matrix
38	FLOOR DEBRIS / CHASE ROOM	Grey Fibrous Heterogeneous	Crushed/Dissolved	None Detected	20% Cellulose 5% Min. Wool 10% Synthetic	10% Quartz 10% Ca Carbonate 45% Matrix
39	FLOOR DEBRIS / CHASE ROOM	Grey Fibrous Heterogeneous	Crushed/Dissolved	None Detected	25% Cellulose 5% Min. Wool 10% Synthetic	15% Quartz 15% Ca Carbonate 30% Matrix
40	FLOOR DEBRIS / CHASE ROOM	Grey. Fibrous Heterogeneous	Crushed/Dissolved	None Detected	22% Cellulose 8% Min. Wool 10% Synthetic	15% Quartz 10% Ca Carbonate 35% Matrix
41	WHITE BRICK W/ MORTER / ROOM #A130	White/Grey Non-Fibrous Heterogeneous	Crushed/Dissolved	None Detected	3% Cellulose	10% Quartz 67% Ca Carbonate 20% Matrix
42	WHITE BRICK W/ MORTER / ROOM #A130	White/Grey Non-Fibrous Heterogeneous	Crushed/Dissolved	None Detected	2% Cellulose	15% Quartz 65% Ca Carbonate 18% Matrix

Comments: For all obviously heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. Also, "# of Layers" refers to number of separable subsamples.
* NY samples analyzed by ELAP 198.1 Method.

Gulam Machhiwala
Analyst

José Arriaga
Approved Signatory

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Analysis performed by EMSL Manhattan (NVLAP Air and Bulk #101048-0, Est AP #11508)

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Friday, February 16, 2001

Ref Number: NY011626

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project: MYSTIC EDUCATION CENTER

Sample	Location	Appearance	Sample Treatment	ASBESTOS % Type	NON-ASBESTOS % Fibrous	% Non-Fibrous
31	RED BRICK / CHASE ROOM	Red Non-Fibrous Heterogeneous	Crushed/Dissolved	None Detected	3% Cellulose	22% Quartz 28% Ca Carbonate 47% Matrix
32	BRICK MORTAR / CHASE ROOM	Grey Non-Fibrous Heterogeneous	Crushed/Dissolved	None Detected	1% Cellulose	25% Quartz 29% Ca Carbonate 45% Matrix
33	BRICK MORTAR / CHASE ROOM	Grey Non-Fibrous Heterogeneous	Crushed/Dissolved	None Detected	2% Cellulose	28% Quartz 30% Ca Carbonate 40% Matrix
34	BRICK MORTAR / CHASE ROOM	Grey Non-Fibrous Heterogeneous	Crushed/Dissolved	None Detected	1% Cellulose	24% Quartz 25% Ca Carbonate 50% Matrix
35	WHITE BRICK / CHASE ROOM	White Non-Fibrous Heterogeneous	Crushed/Dissolved	None Detected	None Detected	15% Quartz 60% Ca Carbonate 25% Matrix
36	WHITE BRICK / CHASE ROOM	White Non-Fibrous Heterogeneous	Crushed/Dissolved	None Detected	None Detected	18% Quartz 60% Ca Carbonate 22% Matrix

Comments: For all obviously heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. Also, "# of Layers" refers to number of separable subsamples.

* NY samples analyzed by ELAP 198.1 Method.

José Uriarte

Gulam Machhiwala
Analyst

Approved
Signatory

Disclaimers: PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. EMSL suggests that samples reported as <1% or none detected be tested with either SEM or TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.
Analysis performed by EMSL Manhattan (NVLAP, Air and Bulk #101048-0, ELAP #11506)

EMSL Analytical, Inc.
307 West 38th Street
New York, NY 10018
Phone: (212) 290-0051 Fax: (212) 290-0058

EMSL

Attn.: Rich Haffey
Mystic Air Quality Consultants, Inc.
1204 North Road (Rt. 117)
Groton, CT 06340

Friday, February 16, 2001

Ref Number: NY011626

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method*

Project: MYSTIC EDUCATION CENTER

Sample	Location	Appearance	Sample Treatment	ASBESTOS %	ASBESTOS Type	NON-ASBESTOS %	NON-ASBESTOS Fibrous	NON-ASBESTOS %	NON-ASBESTOS Non-Fibrous
43	WHITE BRICK W/ MORTER / ROOM #A130	White Non-Fibrous Heterogeneous	Crushed/Dissolved		None Detected	2%	Cellulose	15%	Quartz
								60%	Ca Carbonate
								23%	Matrix

Comments: For all obviously heterogeneous samples easily separated into subsamples, and for layered samples, each component is analyzed separately. Also, "# of Layers" refers to number of separable subsamples.
* NY samples analyzed by ELAP 198.1 Method.

Gulam Machhiwala
Analyst

José Arriaga
Approved Signatory

Disclaimers: PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative PLM results cannot be guaranteed. EMSL suggests that samples reported as <1% or none detected be tested with either SEM or TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. Laboratory is not responsible for the accuracy of results when requested to physically separate and analyze layered samples.
Analysis performed by EMSL Manhattan (NVLAP Air and Bulk 4101048-9, E-LAP 9115001

8

Mystic Air Quality Consultants, Inc.
1204 North Road (Rt. 117) Groton, Connecticut 06340

ANTHEON RENTAL SPACE RENOVATION AREA

Mystic Education Center
Mystic CT

Based on Limited and Directed Site Review – February 14, 2001

Roster of Asbestos-Containing Materials

All pipe insulation in the Chase Room

All glue daubs supporting Black Boards, Chalk Boards and
And Other Style Message or Bulletin Boards
Affixed to the Wall With Glue Daubs

Roster of Asbestos-Contaminated Materials

All Black Boards and Chalk Boards
And Other Style Message or Bulletin Boards
Affixed to the Wall With Glue Daubs

Sections of Wall Substrates (plaster or sheetrock)
to which glue daubs are attached behind chalk boards,
black boards, and any other style message or bulletin boards
affixed to the walls with glue daubs

Precautionary Note:

Renovation planners and contractors should expect the possibility that any pipes in the walls, above ceilings or under floors will have the same insulation as that detected in the chase room.

Communications (24 hours):
Office: (860) 449-8903 FAX: (860) 449-8860 Toll Free: 1 (800) 247-7746
website: www.mysticair.com e-mail:maqc2@aol.com

Mystic Air Quality Consultants, Inc.
1204 North Road (Rt. 117) Groton, Connecticut 06340

ANTHEON RENTAL SPACE RENOVATION AREA

Mystic Education Center
Mystic CT

Based on Limited and Directed Site Review – February 14, 2001

Roster of Materials with No Asbestos Detected (By PLM)

All brown resilient floor covering of the type found in the Hallway

All wall plaster

All 12"x 12" wall panels in classrooms

All 12"x 12" wall panels above the ceilings

All wall brick and mortar in the Chase Room

All debris from masonry materials on floor in Chase Room

Communications (24 hours):
Office: (860) 449-8903 FAX: (860) 449-8860 Toll Free: 1 (800) 247-7746
website: www.mysticair.com e-mail:maqc2@aol.com

Mystic Air Quality Consultants, Inc.

1204 North Road (Rt. 117) Groton, Connecticut 06340

CHAIN OF CUSTODY RECORD FOR LABORATORY ANALYSIS

Client Name	Client Address:	Sample Date:
Mystic Education Center		2/13/01
Phone #: FAX #:	Contact: David Durham	Project #: Asbestos - Lead Survey

Project Location & Information: Mystic Education Center

Sample #	Sample Description & Location	Analysis Requested				
		PLM	TEM	PCM	LEAD	OTH
1-3	Brown Floor Covering (Hallway)	✓				
4	Wall Plaster (Classroom #1)	✓				
5	Wall Plaster (Classroom #4)	✓				
6	Wall Plaster (Room #A133)	✓				
7	12X12 Wall Panel (Classroom #1)	✓				
8	12X12 Wall Panel (Classroom #3)	✓				

Special Handling Instructions/Remarks:

Sampled by: Robert Buckingham Date: 14:00
Signature: Robert Buckingham Time: 2/13/01

Released by: Date:
Signature: Time:

Received by: Date:
Signature: Time:

Released to Lab by: Date:
Signature: Time:

Received in Lab by: Date:
Signature: Time:

LAB DATA - Book #: Page #: Log #:

FAXED: ___ / ___ / ___ [ ] COMPLETE [ ] PROJECT: GIVE TO:

Communications (24 hours):

Office: (860) 449-8903 FAX: (860) 449-8860 Toll Free: 1 (800) 247-7746
website: www.mysticair.com e-mail:maqc2@aol.com

Mystic Air Quality Consultants, Inc.

1204 North Road (Rt. 117) Groton, Connecticut 06340

CHAIN OF CUSTODY RECORD FOR LABORATORY ANALYSIS

Client Name: Mystic Education Center

Client Address:

Sample Date: 2/13/01

Phone #:
FAX #:

Contact: David Durham

Project #: Asbestos - Lead Survey

Project Location & Information: Mystic Education Center

Sample #	Sample Description & Location	Analysis Requested				
		PLM	TEM	PCM	LEAD	OTH
9	12X12 Wall Panel (Classroom #5)	✓				
10-12	12X12 Wall Panel (Above Ceiling Room #A134)	✓				
13	Brown Glue Daubs (Classroom #1)	✓				
14-15	Brown Glue Daubs (Classroom #3)	✓				
16	Black Glue Daubs (Classroom #5)	✓				
17-18	Black Glue Daubs (Room #A134)	✓				

Special Handling Instructions/Remarks:

Sampled by: Robert Buckingham
Signature: Robert Buckingham
Date: 2/13/01
Time: 14:00

Released by:
Signature:
Date:
Time:

Received by:
Signature:
Date:
Time:

Released to Lab by:
Signature:
Date:
Time:

Received in Lab by:
Signature:
Date:
Time:

LAB DATA - Book #: Page #: Log #:

FAXED: ___ /___ /___ [ ]COMPLETE [ ]PROJECT: GIVE TO:

Communications (24 hours):

Office: (860) 449-8903 FAX: (860) 449-8860 Toll Free: 1 (800) 247-7746
website: www.mysticair.com e-mail:maqc2@aol.com

Mystic Air Quality Consultants, Inc.

1204 North Road (Rt. 117) Groton, Connecticut 06340

CHAIN OF CUSTODY RECORD FOR LABORATORY ANALYSIS

Client Name	Client Address:	Sample Date:
Mystic Education Center		2/13/01
Phone #: ____ FAX #: ____	Contact: David Durham	Project #: Asbestos - Lead Survey

Project Location & Information: Mystic Education Center

Sample #	Sample Description & Location	Analysis Requested PLM	TEM	PCM	LEAD	OTH
19-21	Chalkboard (Classroom #5)	✓				
22-24	Blackboard Glue Daubs (Classroom #5)	✓				
25	Plaster Wall behind Chalkboard (Classroom #5)	✓				
26-28	Pipe Insulation (Chase Room)	✓				
29-31	Red Brick (Chase Room)	✓				
32-34	Brick Mortar (Chase Room)	✓				

Special Handling Instructions/Remarks:

Sampled by: Robert Buckingham Date: 14:00
Signature: Robert Buckingham Time: 2/13/01

Released by: ____ Date: ____
Signature: ____ Time: ____

Received by: ____ Date: ____
Signature: ____ Time: ____

Released to Lab by: ____ Date: ____
Signature: ____ Time: ____

Received in Lab by: ____ Date: ____
Signature: ____ Time: ____

LAB DATA - Book #: ____ Page #: ____ Log #: ____

FAXED: ___ / ___ / ___ [ ]COMPLETE [ ]PROJECT: GIVE TO: ____

Communications (24 hours): ____

Office: (860) 449-8903 FAX: (860) 449-8860 Toll Free: 1 (800) 247-7746
website: www.mysticair.com e-mail:maqc2@aol.com

Mystic Air Quality Consultants, Inc.

1204 North Road (Rt. 117) Groton, Connecticut 06340

CHAIN OF CUSTODY RECORD FOR LABORATORY ANALYSIS

Client Name: Mystic Education Center

Client Address:

Sample Date: 2/13/01

Phone #:
FAX #:

Contact: David Durham

Project #: Asbestos - Lead Survey

Project Location & Information: Mystic Education Center

Sample #	Sample Description & Location	Analysis Requested				
		PLM	TEM	PCM	LEAD	OTH
35-37	White Brick (Chase Room)	✓				
38-40	Floor Debris (Chase Room)	✓				
41-43	White Brick w/Mortar (Room #A130)	✓				

Special Handling Instructions/Remarks:

Sampled by: Robert Buckingham Date: 14:00
Signature: Robert Buckingham Time: 2/13/01

Released by: Date:
Signature: Time:

Received by: Date:
Signature: Time:

Released to Lab by: Date:
Signature: Time:

Received in Lab by: Date:
Signature: Time:

LAB DATA - Book #: Page #: Log #:

FAXED: ___ /___ /___ [ ]COMPLETE [ ]PROJECT: GIVE TO:

Communications (24 hours):

Office: (860) 449-8903 FAX: (860) 449-8860 Toll Free: 1 (800) 247-7746
website: www.mysticair.com e-mail:maqc2@aol.com

EMSL Analytical, Inc.

CHAIN OF CUSTODY

Asbesto

EMSL Representative: Stanley B. Stolz

Your Company Name: MYSTIC AIR QUALITY CONSULTANTS

Street: 1204 NORTH ROAD

Box #: GROTON, CT 06340

City/State: 860-449-8903

Zip

EMSL-Bill to: MYSTIC AIR QUALITY CONSULTANTS

Street: 1204 NORTH ROAD

Box #: GROTON, CT 06340

City/State: 860-449-8903

Zip:

Phone Results to: Name Rich Haffey

Telephone #: 860 449 8903

Fax Results to: Name Rich Haffey

Fax Number: 860. 449 8860

Project Name/Number:

Purchase Order #:

MATRIX

- ☐ Air
- ☒ Bulk
- ☐ Wipe
- ☐ Floor Tile
- ☐ Drinking Water
- ☐ Wastewater
- ☐ Soil
- ☐ Dust

TURNAROUND

- ☐ 6-10 Days
- ☐ 5 Days
- ☐ 72 Hour
- ☒ 48 Hour
- ☐ 24 Hour
- ☐ 12 Hour
- ☐ Same Day*
- ☐ 6 Hour

*S.D. - A.M. delivery by Fed. Ex.-Results by Mid-night or earlier

CM

- ☐ NIOSH 7400
- OSHA
- ☐ Other:

EM

- EPA 600 M/01/626
- NOB
- Point Count
- Other:

M

- Qualitative
- Quantitative

TEM AIR

- ☐ AHERA
- ☐ NIOSH 7402
- ☐ Level I
- ☐ Level II

TEM BULK

- ☐ Drop Mount (Qualitative)
- ☐ Chatfield
- ☐ Chatfield / SEM QC
- ☐ Conventional (Quantitative)
- ☐ EMSL Method
- ☐ NOB
- ☐ NOB / SEM QC
- ☐ Micro Vac - Quantitative
- ☐ Micro Vac - Qualitative

TEM WATER

- ☐ Wastewater
- ☐ Drinking Water EPA 100.2
- ☐ Water - NY Wastewater
- ☐ Water-NY Drinking Water

TEM WIPE

- ☐ Quantitative
- ☐ Qualitative

XRD

- ☐ Asbestos
- ☐ Silica

OTHER

- ☐

at Sample # (s)

Total Samples: 43

aquished: Robert Buckingham Date: 2/14/01 Time: 9:00 AM

ived: J. Ill Date: 2/15/01 Time: 10:30 AM

NOTE: Please duplicate this form and use additional sheets if necessary.

EMSL ANALYTICAL

CHAIN OF CUSTODY

ASBESTOS [redacted]

M011626

SAMPLE #	LOCATION	LAP #
1-3	Brown Floor Covering	Hallway
4	Wall Plaster	Classroom #1
5	Wall Plaster	Classroom #4
6	Wall Plaster	Room #A133
7	12X12 Wall Panel	Classroom #1
8	12X12 Wall Panel	Classroom #3
9	12X12 Wall Panel	Classroom #5
10-12	12X12 Wall Panel	Above Ceiling Room #A134
13	Brown Glue Daubs	Classroom #1
14-15	Brown Glue Daubs	Classroom #3
16	Black Glue Daubs	Classroom #5
17-18	Black Glue Daubs	Room #A134
19-21	Chalkboard	Classroom #5
22-24	Blackboard Glue Daubs	Classroom #5
25	Plaster Wall behind Chalkboard	Classroom #5
26-28	Pipe Insulation	Chase Room
29-31	Red Brick	Chase Room
32-34	Brick Mortar	Chase Room
35-37	White Brick	Chase Room
38-40	Floor Debris	Chase Room
41-43	White Brick w/Mortar	Room #A130

Relinquished By: (Person) Robert Buckingham Date: 2/14/01 AM

Received at EMSL By: [illegible] Date: 2/15/01 @ 0130

Received at EMSL By: Date:

Note: Please duplicate this form and use additional sheets if necessary.

EMSL Analytical
59 Haddon Ave., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: 8568589551 Email: 20email

EMSL

Attn: Richard Haffey
Mystic Air Quality Consultants, Inc.
1204 North Road (Rt. 117)
Groton, CT 06340
Fax: (860) 449-8860 Phone: 860-449-8803
Project: Mystic Education Center

Customer ID: MYST50
Customer PO:
Received: 02/15/01 10:15 AM
EMSL Order: 200101607
EMSL Project ID:

Lead in Paint Chips by Flame AAS (SW 846, 7420)

Client Sample Description	Lab ID	Analyzed	Lead Concentration	Notes
1	0001	2/19/01	0.730 % wt	
2	0002	2/19/01	6.320 % wt	
3	0003	2/19/01	4.100 % wt	
4	0004	2/19/01	1.340 % wt	
5	0005	2/19/01	1.310 % wt	
6	0006	2/19/01	0.749 % wt	
7	0007	2/19/01	0.480 % wt	
8	0008	2/19/01	0.018 % wt	
9	0009	2/19/01	0.062 % wt	
10	0010	2/19/01	0.103 % wt	
11	0011	2/19/01	0.224 % wt	
12	0012	2/19/01	0.364 % wt	
13	0013	2/19/01	5.660 % wt	

EMSL ANALYTICAL
CHAIN OF CUSTODY - LEAD

EMSL

Date: _____

EMSL Representative: Andy DeJohn

Contact Name: Rich Haffey

Company Name: Mystic Air Quality

Street: 1204 North Road

Box #: _____

City/State/Zip: Groton, CT 06340

Phone: (860) 449-8903

EMSL – Bill to: SAME

Street: _____

Box #: _____

City/State/Zip: _____

Fax: (860) 449-8860

Project Name/ No.: _____

MATRIX	METHOD	INSTRUMENT	mdls	# of samples
Lead Chips	SW846-7420	Flame Atomic Absorption	0.01%	13
Lead Soil	SW846-7420	Flame Atomic Absorption	50.0 mg/kg	
Lead in Wipe	SW846-7420	Flame Atomic Absorption	10.0 ug/wipe	
Lead in Air	NIOSH 7082	Flame Atomic Absorption	10.0 ug/filter	
Lead in Drinking Water	SW846-239.2	Graphite Furnace Atomic Absorption	5.0 ppb	
~~TCLP Lead~~	NIOSH 7300/7082 SW 846-1311	Flame Atomic Absorption	0.1 ppm	

TAT (turnaround) - Same Day 1 Day 2 Days 3 Days 4 Days 5 Days 6-10 Days

Relinquished: _____ Date: 2/13/01

Received: _____ Date: _____

SAMPLE DATE	SAMPLE #	LOCATION	AREA TESTED
2/13/01	1	Window Sill (Green Paint)	Classroom #1
	2	Window Sill (Green Paint)	Classroom #3
	3	Window Sill (Green Paint)	Bathroom
	4	Wall Paint (Yellow)	Bathroom (Front end)
	5	Wall Paint (Yellow)	Bathroom (Back Part)
	6	Wall Paint (Yellow)	Classroom #3
	7	Wall Paint (Green)	Classroom #5
	8	Wall Paint (Green)	Room #A133

EMSL ANALYTICAL
CHAIN OF CUSTODY - LEAD

Date: _____

EMSL Representative: Andy DeJohn

Contact Name: Rich Haffey

Company Name: Mystic Air Quality

Street: 1204 North Road

Box #: _____

City/State/Zip: Groton, CT 06340

Phone: (860) 449-8903

EMSL – Bill to: SAME

Street: _____

Box #: _____

City/State/Zip: _____

Fax: (860) 449-8860

Project Name/ No.: _____

MATRIX	METHOD	INSTRUMENT	mdls	# of samples
Lead Chips	SW846-7420	Flame Atomic Absorption	0.01%	13
Lead Soil	SW846-7420	Flame Atomic Absorption	50.0 mg/kg	
Lead in Wipe	SW846-7420	Flame Atomic Absorption	10.0 ug/wipe	
Lead in Air	NIOSH 7082	Flame Atomic Absorption	10.0 ug/filter	
Lead in Drinking Water	SW846-239.2	Graphite Furnace Atomic Absorption	5.0 ppb	
~~TCLP Lead~~	NIOSH 7300/7082 SW 846-1311	Flame Atomic Absorption	0.1 ppm	

TAT (turnaround) - Same Day 1 Day 2 Days 3 Days 4 Days 5 Days 6-10 Days

Relinquished: _____ Date: 2/13/01

Received: _____ Date: _____

SAMPLE DATE	SAMPLE #	LOCATION	AREA TESTED
2/13/01	9	Wall Paint (Light Blue)	Classroom #4
	10	Window Sill (White)	Room A134
	11	Window Sill (White)	Room A134
	12	Window Sill (White)	Room A134
	13	Window Sill (Yellow)	Classroom #4

Mystic Air Quality Consultants, Inc.
1204 North Road (Rt. 117) Groton, Connecticut 06340

Lead in Construction - OSHA 1926.62

Notwithstanding the use of the State of Connecticut standard for toxicity of lead in top coats of paint (0.5% of lead detected in paint chips) for this report, please note that OSHA does not consider any lead-in-construction pre-testing of paint in place as indicative of exposure potential.

All pertinent and appropriate lead-in-construction safety considerations will have to be employed during any construction (renovation or demolition) activity at this site. This includes wall preparation for new paint. All work practices, personal protective equipment, and employee exposure monitoring set forth in 29 CFR (OSHA) 1926.62 apply. The test readings in this report and the summarization of those readings that are below the Connecticut State standard do not relieve employers from these responsibilities at this site.

Waste Disposal

Waste disposal of paint or painted materials from this site is subject to industry standards, which usually include testing the potential for the paint on materials to leach off paint in a landfill and enter the water table. The testing for this likelihood from painted materials at this site is referred to as TCLP testing (Toxicity Characteristic Leaching Procedure).

While samples of the painted materials that registered above the toxic level for paint in place (which is different from the toxicity level for waste considerations) were collected, Mystic Air did not subject the materials to TCLP analysis. As a result, you will need to make other determinations for testing the materials or presume the painted materials are to be considered lead waste and proceed accordingly.

Communications (24 hours):
Office: (860) 449-8903 FAX: (860) 449-8860 Toll Free: 1 (800) 247-7746
website: www.mysticair.com e-mail:maqc2@aol.com

Post-it® Fax Note 7671	Date 5/19/05	# of pages ▶ 5
To Dave Arnts	From Harold	
Co./Dept. DPW	Co. DPW	
Phone # 713-5661	Phone # 536 4221	
Fax # 713-7262	Fax # 4222	

EnviroScience Consultants inc.
Environmental Engineering ◆ Industrial Hygiene ◆ Laboratory Services

FACSIMILE TRANSMISSION

TO

Name: Joe Coudup

Company: EnviroScience

Phone:

Fax: 860-536-4222

FROM

Name: Steve Connelly

Date: 5-19-05

Number of Pages: 4
(includes cover sheet)

ESC Project Number:

Document Being Sent:

MESSAGE

Here are results from Pratt Bldg Auditorium

Blue Dates are positive

795 North Mountain Road, Newington, CT 06111
Phone (860) 953-2700 Fax (860) 953-3203

E-Mail: enviro.science@envirosci.com
Web Site: www.envirosci.com

F:\EVERYONE\WORD\g=a_cont\FORMS\faxform.doc

05-18-'05 17:30 FROM-EMSL Wallingford CT 2032845978 T-632 P001/003 F-924

860-536-4222

Asbestos • Lead • Environmental • Materials & Indoor Air Analysis

EMSL Analytical, Inc.

http://www.emsl.com

Prat. Bldg

4 Fairfield Boulevard
Wallingford, CT 06492
Phone: 203-284-5948
Fax: 2032845978

EMSL

FACSIMILE TRANSMITTAL SHEET

TO:	Joseph C.	FROM:	EMSL Analytical, Inc.
COMPANY:	EnviroScience Consultants, Inc.	DATE:	5/18/2005 5:17:20 PM
FAX:	(413) 647-0018	PAGES INCLUDING COVER:	3
PHONE:	(860) 953-2700		

RE: Analysis Results for Order 240500929

The following report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 5/16/2005. The samples are for 035.839/ Mystic Oral School Groton CT.

Notice: If you are not the stated recipient of this fax and have received this in error, please discard immediately and contact EMSL Analytical at the phone number listed above.

If you have any questions, please do not hesitate to contact us at 203-284-5948.

VISIT OUR WEBSITE AT HTTP://WWW.EMSL.COM
YOU CAN DOWNLOAD AND PRINT
CERTIFICATIONS OF ACCREDITATIONS AND CHAIN OF CUSTODY FORMS

EnviroScience Consultants Inc.
Environmental Engineering + Industrial Hygiene + Laboratory Services

Office Locations: Hamden, CT; Fairfield, CT; Boston, MA

SAMPLE LOG FOR ASBESTOS BULKS

Sheet No. 1 of 1

Project Name: Mystic oral school Groton CT Project Number: 03 E 839

Building: Auditorium RM 114 Project Manager: Stevin Connelley

Sample ID Number	Sample Location	Material Type	Result (%)
1A	Balconey area	Top coat ceiling tiles	
2A	Balconey area	Top coat ceiling tiles	
1B	Balconey area	ceiling tiles	
2B	Balconey area	ceiling tiles	
1C	Balconey area	glue Dots	
2C	Balconey area	glue Dots	

Analysis Method: ☐ PCM ☐ Other _____ Turnaround Time: 48hr

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____
Please call the EnviroScience Laboratory at 800-653-2701. If analysis will be late.

Fax Results To: EnviroScience Consultants Inc. Laboratory at 413-947-0016

Special Instructions: Stop analyses on first positive sample in each homogeneous set of samples unless otherwise noted. Do not lower samples unless indicated. EPA 400 point count all samples of asbestos content < 4%, positive stop in all point counts.

Samples Collected by: _____ Date: _____ Time: _____
Samples Received by: [Joseph I Lauber] Date: 5/16/05 Time: 48
Samples Received by: _____ Date: _____ Time: _____

Shipped To: ☐ EMSL (Branch) _____ ☐ Other _____

Method of Shipment: ☐ Fed Ex. ☐ Fed Ex. Overnight ☐ UPS Ground ☐ Other _____

[illegible]

[illegible]

RECEIVED
MAY 16 2005
BY: MR 4:30

EMSL Analytical, Inc.
4 Fairfield Boulevard, Wallingford, CT 06492
Phone: 203-284-5843 Fax: 203-284-5978 Email: wallingfordlab@emsl.com

Attn: **Joseph C.**
EnviroScience Consultants, Inc.
795 North Mountain Road
Newington, CT 06111

Fax: (413) 547-0018 Phone: (860) 953-2700
Project: 036.839/ Mystic Oral School Groton CT

Customer ID: ENVI54
Customer PO:
Received: 05/16/05 4:30 PM
EMSL Order: 240500929
EMSL Proj:
Report Date: 5/18/2005

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Non Asbestos % Fibrous	Non Asbestos % Non-Fibrous	Asbestos % Type
1A 240500929-0001	Balconey area top coat ceiling tiles	Brown/White Fibrous Heterogeneous	15% Min. Wool 55% Cellulose	30% Non-fibrous (other)	None Detected
2A 240500929-0002	Balconey area top coat ceiling tiles	Brown/White Fibrous Heterogeneous	15% Min. Wool 55% Cellulose	30% Non-fibrous (other)	None Detected
1B 240500929-0003	Balconey area ceiling tiles	Brown/White Fibrous Heterogeneous	15% Min. Wool 55% Cellulose	30% Non-fibrous (other)	None Detected
2B 240500929-0004	Balconey area ceiling tiles	Brown/White Fibrous Heterogeneous	15% Min. Wool 55% Cellulose	30% Non-fibrous (other)	None Detected
1C 240500929-0005	Balconey area glue dots	Brown Non-Fibrous Homogeneous	Non samples require matrix reduction prior to PLM point count analysis	97% Non-fibrous (other)	3% Chrysotile
2C 240500929-0006	Balconey area glue dots				Not Analyzed

Analyst(s)
Ravi Krishnappa (5)

Melanie Roch
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This test report conforms within this report meet the requirements of NVLAP unless otherwise noted.
Analysis performed by EMSL Wallingford

PLM-1

THIS IS THE LAST PAGE OF THE REPORT.

FROM : MYTIC EDUCATION CENTER FAX NO. : 8605364221 May. 19 2005 08:21AM P1

EMSL Analytical, Inc.
[illegible] Boulevard, Wallingford, CT [illegible]
Phone: [illegible] Fax: [illegible] Email: [illegible]

EMSL

Attn: **Joseph C.**
Enviro Science Consultants, Inc.
795 North Mountain Road
Newington, CT 06111

Fax: (413) 647-0018 Phone: (800) 953-2700
Project: 035.[illegible] Mystic Oral School Gorton CT. Auditorium Rm 112

Customer ID: ENVI64
Customer PO:
Received: 05/09/05 4:41 PM
EMSL Order: [illegible]

EMSL Proj:
Analysis Date: 5/11/2005
Report Date: 5/11/2005

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
01 [illegible]	Balcony area	Brown Non-Fibrous Homogeneous	2% Fibrous (other)	98% Non-fibrous (other)	<1% Anthophyllite
02 [illegible]	Balcony area	Gray/White Fibrous Heterogeneous	15% Min. Wool 50% Cellulose	35% Non-fibrous (other)	None Detected
03 [illegible]	Balcony area	Gray/White Fibrous Heterogeneous	15% Min. Wool 50% Cellulose	35% Non-fibrous (other)	None Detected

Analyst(s)
Ravi Krishnappa (3)

Melanie Rach
Melanie Rach
or other approved signatory

[illegible]

PLM-1 THIS IS THE LAST PAGE OF THE REPORT. 1

Arute, David

From: Arute, David

Sent: Thursday, May 19, 2005 1:51 PM

To: 'michael.k.sanders@po.state.us'

Cc: Grigely, Dave; 'jreilly@petcoinsulation.com'

Subject: Pratt Auditorium Ceiling Tile Gue Daubs

Mike,
Just got the results for the Glue Daubs sample that Enviro Science took in the Pratt Building Auditorium. The results are Postive for Asbestos (3%). So when we do the other abatement work in the building, (Bowling Alley and Laundry Room) let's also do the Glue Daubs for the ceiling in the Auditorium, you will recall they are only on the access panels to the space above the ceiling ...I think there were 4, possibly 5.
Dave

TRC

Industrial Hygiene Laboratory
21 Griffin Road North
Windsor, CT 06095
(860) 298-6308

BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Public Works

Site: Mystic Education Center- Durant Building
Lab Log #: 33457
Project #: 43500-6210-00001
Date Received: 03/14/07
Date Analyzed: 03/15/07

RESULTS

Sample No.	Color	Homogeneous	Multi-Layered	Layer No.	Other Matrix Mat'ls	Asbestos %	Asbestos Type
1	White	Yes	No	--	--	ND<1%	None
2	White	Yes	No	--	--	ND<1%	None
3	White	Yes	No	--	--	ND<1%	None
4	Yellow	Yes	No	--	--	ND<1%	None
5	Dark Yellow	Yes	No	--	--	ND<1%	None

Reporting limit- asbestos present at 1%
ND<1% - asbestos was not detected
Trace- asbestos was observed at level of less than 1%

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, negative results must be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation (1982), and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey which utilizes polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2007. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through February 1, 2008. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and the QC data related to the samples is available upon written request from the client.

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Analyst: Kathleen Williamson

QC Analyst: Kathleen Williamson

Reviewed by: Laboratory Analyst

Approved Henry J. Laliberte
Signatory: Laboratory Manager

Date Issued: 3/15/07

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS

NVLAP Lab Code 101424-0	AIHA #100122	CT #PH-0426	ME LA-0075, LB-0071	MA #AA000052
NY #10980	RI #AAL-007C3	TX #300354	VT #AL014538	VA #3333 000283

TRC
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5 Waterside Crossing
Windsor, Connecticut 06095
Telephone 860-298-9692

CHAIN OF CUSTODY RECORD

PROJECT NO. 43500-6210-01

PROJECT NAME: Mystic Educ Center - Durant Bldg

PARAMETERS: 33457

SAMPLERS: (Signature) Thomas Martin (Printed) Thomas J. Martin

FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	PLM	TEM							REMARKS
1	3/13/07				Riverview bthrm-1st floor		X								Sheetrock (no jc)
2	↓				↓		X								↓
3							X								
4							X	X							Plastic wall panel glue (PWPG)
5							X	X							Ceramic tile glue (CTG)

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Thomas Martin	3/13/07 0830				
(Printed) Thomas J. Martin		(Printed)	(Printed)		(Printed)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
			3/14/07 0730		
(Printed)		(Printed)			

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

Proscience Analytical Services, Inc.

22 Cummings Park, Woburn, MA 01801 Ph. 781-935-3212 Fax 781-932-4857

TEM Bulk Chain of Custody Record

Date: 03/15/07

Analysis Type: Chatfield **N.O.B N.Y.S** Qualitative

Client: TRC
Client Job#: 43500-6210-00001
Client Job Ref./Loc.: CT DPW- Mystic Education Center, Durant Bldg.
Relinquished by: K. Williamson
Received by:
Report to: D. LePage
Samplers Name: T. Martin

Turn Around Time: <12 Hour <24 Hour **<48 Hour** <3 Day <5 Day Other:

					For Lab Use Only
Client ID #	**Lab ID#**	**Description**	**Location**	**Acceptable on Receipt**	**Comments**
4	33457	Glue	See Chain of Custody		
5	33457	Glue			

For Lab Use Only	# Spies	Total	Client #	Batch #	Results Reported	Comments

Proscience Analytical Services, Inc.

22 Cummings Park, Woburn, MA 01801 Ph. 781-935-3212 Fax 781-932-4857

TEM Bulk Chain of Custody Record

Date: 03/15/07

Client: TRC
Client Job#: 43500-6210-00001
Client Job Ref./Loc.: CT DPW- Mystic Education Center, Durant Bldg.
Relinquished by: K. Williamson
Received by: 3.16.07
Report to: D. LePage
Samplers Name: T. Martin

correct per Tom Martin/MZ 3.20.07

Analysis Type: Chatfield **N.O.B N.Y.S** Qualitative

NT 8843

Turn Around Time: <12 Hour <24 Hour **<48 Hour** <3 Day <5 Day Other:

Client ID #	Lab ID#	Description	Location	Acceptable on Receipt	For Lab Use Only Comments
4	33457	Glue	See Chain of Custody		
5	33457	Glue			

For Lab Use Only	# Spies	Total	Client #	Batch #	Results Reported	Comments

Simona Molacser 03/16/07 9:25 am

Arute, David

From: Lepage, Don [DLepage@TRCSOLUTIONS.com]
Sent: Friday, September 15, 2006 12:53 PM
To: Arute, David
Cc: Sanders, Michael; Sinclair, Jim
Subject: RE: Mystic Ed

Dave,

Air samples taken in the crawlspace at the Admin. Building at Mystic Ed. Were all low for asbestos – however, in the soil samples we detected visible pieces of asbestos in 2 of 5 samples (20% and 2 %) and trace fibers in another 2 samples and ND in the last sample. There is a small area next to the pipe that needs to be repaired that has visible pipe insulation debris on the floor.

I recommend that an abatement contractor should go into the ~~tunnel~~ and at the very least clean up the debris near the pipe and quickly rake through the soils leading from the entrance to the damage pipe and have them cleanup any debris they may encounter. Then it may be a good idea to have the contractor lay down poly on the floor from the entrance to work area around the pipe to further encapsulate the fibers in the dirt. There would be no notification or air clearances needed as this would only be considered an O & M cleanup with < 3 SF of insulation being disturbed.

Call me to discuss – I will be out of the office after 1:15 today – but I will be in Monday.

Donald LePage
Project Manager
TRC Environmental
Office - (860) 298-6222
Fax - (860) 298-6399

From: Arute, David [mailto:David.Arute@po.state.ct.us]
Sent: Thursday, September 07, 2006 7:25 AM
To: Lepage, Don
Subject: RE: Mystic Ed

Don,

The building at Mystic is: Administration Building – (Tennant is Alion)

The person to contact on Friday is: Harold Monroe Cell No. 1-860-9125893 (that is the best way for your Tech. to reach him)

Don, I will give Harold a call and let him know that you're planning on having your Tech show up on Friday. Just tell your person To contact Harold sometime today if possible to let him know about what time he/she will be at Mystic on Friday. Harold starts at 7:30am.

The rest of your "go forward plan sounds like a good plan"! I will not be in on Friday, so if you need to get hold of someone about this if something should come up, just call Harold at Mystic on his cell phone.

Thanks Don!

Dave

-----Original Message-----
From: Lepage, Don [mailto:DLepage@TRCSOLUTIONS.com]
Sent: Wednesday, September 06, 2006 10:53 PM
To: Arute, David
Subject: Mystic Ed

I took God awful notes at that walkthrough the other day at Mystic Ed. What was the name of the building that crawlspace was located in? Also, I lost the card for the maintenance guy over there I was supposed to call to set this up with. Could you send me his name and # please. I have someone available on Friday to go and run these air tests. I figure we will set up 2 air tests in the crawl space and take a few of samples of the dirt to see if we find any signs of contamination then we'll see what we got – either way the contractor going down to perform this work should be at least OSHA 2-hour awareness trained, but that is for you to decide if you want them to have it. It's a cover your Ass kind of thing.

I am on vacation tomorrow (Thurs.), but if you send me the information tomorrow via e-mail I will pass the information along to my tech. who will do the sampling on Friday.

Thanks Dave.

Donald LePage
Project Manager
TRC Environmental
Office - (860) 298-6222
Fax - (860) 298-6399

TRC

FACILITIES MANAGEMENT

2006 OCT -4 A 10: 49

September 26, 2006

Mr. David Arute
Facilities Management
State Office Building
165 Capitol Avenue
Hartford, CT 06106

Re: Compliance Report for Mystic Education Center – crawlspace, Mystic, Connecticut
Project No.: RM-06-06
DPW Building No.: 16945
TRC Project No.: 43500-4920-00003

Dear Mr. Cyr:

Enclosed please find copies of the soil sampling and air sampling performed on September 8, 2006 in the crawlspace at Mystic Education Center.

Please contact me at (860) 298-6222 if have any questions concerning the results.

Very truly yours,

TRC ENVIRONMENTAL CORPORATION

Donald LePage

Donald LePage
Project Manager

21 Griffin Road North • Windsor, Connecticut 06095-1512
Main: 860-298-9692 • Fax: 860-298-6399
www.trcsolutions.com

TRC ENVIRONMENTAL CORPORATION
Environmental Chemistry Laboratory
21 Griffin Road North
Windsor, CT 06095
(860) 298-6308

BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Mental Retardation

Site: Mystic Education Center
Lab Log #: 32820
Project #: 43500-4920-00003
Date Received: 09/11/06
Date Analyzed: 09/13/06

RESULTS

Sample No.	Color	Homogeneous	Multi-Layered	Layer No.	Other Matrix Mat'ls	Asbestos %	Asbestos Type
01	Soil Sample	--	--	--	--	Trace	Chrysotile
02	Soil Sample	--	--	--	--	2%	Chrysotile
03	Soil Sample	--	--	--	--	ND<1%	None
04	Soil Sample	--	--	--	--	Trace	Chrysotile
04*	Grey	Yes	No	--	30% cellulose	20%	Chrysotile

Reporting limit- asbestos present at 1%
ND<1% - asbestos was not detected
Trace- asbestos was observed at level of less than 1%

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, negative results must be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation (1982), and the EPA recommended Method for tbe Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey which utilizes polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2006. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through February 1, 2008. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and the QC data related to the samples is available upon written request from the client.

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Analyst: Maureen Grissom

QC Analyst: Maureen Grissom

Reviewed by: Laboratory Analyst

Approved Henry J. Laliberte
Signatory: Laboratory Manager

Date Issued: 9/13/06

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS

NVLAP Lab Code 101424-0	AIHA #100122	CT #PH-0426	ME LA-0075, LB-0071	MA #AA000052
NY #10980	RI #AAL-007C3	TX #300354	VT #AL014538	VA #3333 000283

TRC
Customer-Focused Solutions

5 Waterside Crossing
Windsor, Connecticut 06095
Telephone 860-298-9692

CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME	PARAMETERS	
43500-4920-00003	DMR-Mystic Education Center		32820

SAMPLERS: (Signature) [signature] (Printed) Jennifer Peshka

FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	PLM								REMARKS
01	9/8			X	Walkway Below exposed Mag		X								SOIL
02				X	Below fittings										
03				X	N side of pipe										
04			X	X	S side of pipe										
04*			X	X	paper in soil		X								

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	9/11	[signature] 9/11/04			
(Printed) Jen Peshka		(Printed) Maureen Grissom	(Printed)		(Printed)

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks
(Printed)		(Printed)		

* Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).

Edition: July 2006
Supersede Previous Edition

AIR SAMPLE ANALYSIS REPORT

CLIENT:

SITE: DMR - Mystic education Center

ADDRESS: Admin Building Crawl space

CONTACT/NAME: DON

PHONE NO.:

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

PROJECT NO.: 43500-4920-00003 DATE: 9/8/06 PG 1 OF 1

SAMPLER PRINT: Jennifer Peshka SIGNATURE: [signature] DATE 9/8/06

ANALYST PRINT: Jennifer Peshka SIGNATURE: [signature] DATE ANALYZED 9/11/06

QC ANALYST PRINT: Maureen Grisson SIGNATURE: [signature] DATE ANALYZED 9/13/06

LAB SUPERVISOR PRINT: Henry Laliberte SIGNATURE: [signature] DATE ISSUED 9/13/06

QC MANAGER PRINT: SIGNATURE: Henry J. Laliberte

ROTOMETER NO.: H2 DATE OF CALIBRATION: 7/18/06 LAB NO.: 32821

SAMPLE TYPE: X PCM ____ TEM ____ OTHER (SPECIFY)

ANALYSIS METHOD: X NIOSH 7400 Issue 2 8/15/94 ____ AHERA ____ OTHER (SPECIFY)

MG QC 14/100

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	1	2	3	4			
SAMPLING LOCATION/ COMMENTS	WEST CRAWL SPACE	EAST CRAWL SPACE	FB	FB			
TYPE OF SAMPLE	1	1					
PUMP NUMBER							
START TIME/STOP TIME	0828/0945	0826/0945	/	/	/	/	/
TOTAL TIME (min)	77	78					
FLOW RATE	16/16	16/16	/	/	/	/	/
TOTAL VOLUME (l)	1232	1248					
FB/FL — BFB/BFL	16/100	10/100	0/100	0/100			
AIRBORNE FIBER CONC. (fibers/cc)	0.006	0.004					

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: [signature] DATE: 9/11/06 TIME:

RECEIVED BY: [signature] DATE: 9/11/06 TIME:

RELINQUISHED BY: DATE TIME:

RECEIVED BY: DATE: TIME:

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # AL014538 AIHA/PAT # 100122 NVLAP # 101424-0
ME # LB-0071 VA # 3333000283 TX # 300354

Condition of Sample:
Acceptable : Y ____ N ____
Comments:

TRC

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JENNIFER PESHKA

VALIDATION NO.
03-250707

LICENSE NO.
000198

CURRENT THROUGH
09/30/06

PROFESSION
ASBESTOS CONSULTANT-INSP/MGMT PLANNER

SIGNATURE

J. Robert Galvin M.D., M.P.H.
COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

Jennifer Peshka

has successfully completed the

Asbestos Site Inspector Refresher Training
Asbestos Accreditation Under TSCA Title II
40 CFR Part 763

conducted by

ATC Associates Inc.
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Edward Kolodziej
Principal Instructor

July 20, 2006
Date of Course

July 20, 2007
Expiration Date

Gregory J. Morsch
Regional Manager

SIAR-2231
Certificate Number

July 20, 2006
Examination Date

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

TRC ENVIRONMENTAL CORPORATION

LOCATED AT 21 Griffin Road North IN Windsor, CT 06095

AND REGISTERED IN THE NAME OF Richard A. Love

THIS CERTIFICATE IS ISSUED IN THE NAME OF Henry Laliberte WHO HAS BEEN DESIGNATED BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

ASBESTOS
AIR-FIBER COUNTING - PCM
BULK IDENTIFICATION - PLM

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES December 31, 2007 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 22ND DAY OF DECEMBER 2005

Registration No.

PH- 0426

Ellen J. Blaschinski

CHIEF, REGULATORY SERVICES BRANCH

The American Industrial Hygiene Association

CELEBRATING 30 Thirty Years of AIHA Accrediting Labs

SOUND DATA SMART DECISIONS

1974 – 2004

acknowledges that

TRC Environmental Corporation

21 Griffin Road North, Windsor, CT 06095

Laboratory ID: 100122

has fulfilled the requirements of the AIHA Laboratory Quality Assurance Programs (LQAP), thereby, conforming to the ISO/IEC 17025:1999 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories*. The above named laboratory, along with all premises from which key activities are performed, as listed above, have been accredited by AIHA in the following:

ACCREDITATION PROGRAMS

✓	**INDUSTRIAL HYGIENE**	Accreditation Expires: 02/01/2008
☐	**ENVIRONMENTAL LEAD**	Accreditation Expires:
☐	**ENVIRONMENTAL MICROBIOLOGY**	Accreditation Expires:
☐	**FOOD**	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with LQAP requirements. This certificate is not valid without the attached **Scope of Accreditation**.

David Kahane, CIH
Chairperson, Analytical Accreditation Board

Roy M. Buchan, DrPH, CIH
President, AIHA

Date Issued: 2/24/2006

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:1999

NVLAP LAB CODE: 101424-0

TRC Environmental Corporation

Windsor, CT

is recognized by the National Voluntary Laboratory Accreditation Program for conformance with criteria set forth in NIST Handbook 150:2001 and all requirements of ISO/IEC 17025:1999.
Accreditation is granted for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

2006-07-01 through 2007-06-30

Effective dates

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

Sally S. Bruce

For the National Institute of Standards and Technology

NVLAP-01C (REV. 2005-05-19)

Arute, David

From: Sanders, Michael
Sent: Monday, October 24, 2005 8:13 AM
To: Arute, David; Brown, Jackie
Cc: 'David.grigeley@po.state.ct.us'; 'hmonroe@dimeoproperties.com'; 'Dawn Hannegan'
Subject: RE: Durant Bldg....TRC Testing Samples

Delta might have tested a spot that may have been a repair, I will look into the number and locations of samples to make sure we are not missing anything

-----Original Message-----
From: Arute, David
Sent: Thursday, October 20, 2005 9:23 AM
To: Brown, Jackie; Sanders, Michael
Cc: 'David.grigeley@po.state.ct.us'; 'hmonroe@dimeoproperties.com'; 'Dawn Hannegan'
Subject: Durant Bldg....TRC Testing Samples

Jackie & Mike,

I received a call from Don LePage from TRC this morning about the results of the Durant Bldg. Retesting of the Joint Compound. He did this on a rush basis for us and apparently we have a discrepancy with TRC's tests and Delta's reported results.

All the samples including the ones taken yesterday by TRC on the Joint Compound at Durant Bldg. turned out NEGATIVE.
Harold be sure to note this in your copies of the OM, because as you know this was not the result according to DELTA's Test Results.
I will note it in my copy.

Dave

- DRAFT -

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
DURANT BUILDING (DPW Building 16958)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: March 2001

DELTA
ENVIRONMENTAL
SERVICES®, INC.

81 Schoolground Road
P.O. Box 564, Branford, CT
(203) 481-7668

- DRAFT -

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
DURANT BUILDING (DPW Building 16958)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: March 2001

DELTA
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81 Schoolground Road
P.O. Box 564, Branford, CT
(203) 481-7668

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TABLES

3-1 Bulk Sample Summary for Suspect Asbestos-Containing Materials

3-2 Asbestos-Containing Material

3-3 Non-Asbestos-Containing Material

5-1 Asbestos Abatement Cost Estimate

APPENDICES

APPENDIX A - Inventory of Identified Asbestos-Containing Material

APPENDIX B - Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

APPENDIX C - Laboratory and Inspector Accreditations

APPENDIX D - Building Diagrams

1.0 INTRODUCTION

This report summarizes the results of an asbestos and lead inspection conducted by DELTA Environmental Services, Inc. (DELTA) for the Durant Building (DPW Building Number 16958) at the Mystic Education Center facility at 290 Oral School Road in Mystic, Connecticut. The project consisted of: review of available building records; physical inspection of the building to determine the quantities and locations of asbestos-containing materials (ACM); and bulk sampling of suspected asbestos-containing materials (ACM).

2.0 BUILDING DESCRIPTION

Mystic Education Center is a seven-building campus-type facility. The property consists of approximately 122 acres and 250,000 square feet of building floor space. The Durant Building is a two-story (with partial upper level) masonry structure. The building covers approximately 40,000 square feet and was constructed in 1974. The building consists of: a gymnasium, classrooms, storage areas, and mechanical rooms in the basement ("lower level"); classrooms, offices, a kitchen and a cafeteria on the first floor ("middle level"); and dormitory areas on the second floor ("upper level"). The building is heated via a forced hot air system with some baseboard electric units.

Many of the rooms in the building do not have assigned room numbers. Building diagrams are included in Appendix E.

3.0 ASBESTOS SURVEY

3.1 Asbestos Sampling Procedures

Bulk samples of suspected ACM were collected by James P. McCarthy, P.E., of DELTA, a Connecticut Department of Public Health licensed inspector. Samples were collected using a clean knife or other appropriate tool after first wetting the material to be sampled to limit fiber release.

Samples were placed in dedicated sealable plastic bags and promptly transmitted to the analytical laboratory using strict chain of custody procedures. Sampling was performed in accordance with Environmental Protection Agency protocols, which require a minimum of three negative results in order to establish that a material does not contain asbestos.

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
1	1195621	Ceiling Tile 1' X 2'	Lower Level Corridor Near Room 138	NAD
2	1195622	Ceiling Tile 1' X 2'	Lower Level Corridor Near Room 138	NAD
3	1195623	Ceiling Tile 1' X 2'	Lower Level Corridor Near Room 112	NAD
4	1195624	Joint Compound (Covered by Wallpaper)	Lower Level Corridor Near 115	2.5% Chrysotile (Point Count)
5	1195625	Joint Compound (Covered by Wallpaper)	Lower Level Office 136	1.8% Chrysotile (Point Count)
6	1195626	Brown 12" Floor Tile Mastic From Above	Lower Level Stairwell Landing	3.5% Chrysotile (Point Count) 7.5% Chrysotile (Point Count)
7	1195627	Brown 12" Floor Tile	Lower Level Stairwell Landing	Not Analyzed*
8	1195628	Brown 12" Floor Tile	Lower Level Stairwell Landing	Not Analyzed*
9	1200093	Sheetrock	Lower Level Room 142	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
10	1200094	Brown 12" Floor Tile	Lower Level Room 140	1.5% Chrysotile
11	1200095	Brown 12" Floor Tile	Lower Level Room 140	Not Analyzed*
12	1200096	Brown 12" Floor Tile	Lower Level Room 140	Not Analyzed*
13	1200097	Mastic From Brown 12" Floor Tile	Lower Level Room 140	5.5% Chrysotile
14	1200098	Mastic From Brown 12" Floor Tile	Lower Level Room 140	Not Analyzed*
15	1200099	Mastic From Brown 12" Floor Tile	Lower Level Room 140	Not Analyzed*
16	1200100	Carpet Adhesive	Lower Level Room 148	NAD
17	1200101	Mastic From Wood Tile Flooring	Lower Level Media Center	NAD
18	1200102	Mastic From Wood Tile Flooring	Lower Level Media Center	NAD
19	1200103	Mastic From Wood Tile Flooring	Lower Level Media Center	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
20	1200104	Cloth Wrap on Pipe Fitting	Lower Level East Side Fan Room	40% Chrysotile
21	1200105	Cloth Wrap on Pipe Fitting	Lower Level East Side Fan Room	Not Analyzed*
22	1200106	Cloth Wrap on Pipe Fitting	Lower Level East Side Fan Room	Not Analyzed*
23	1200107	Tape on Pipe Fitting	Lower Level East Side Fan Room	NAD
24	1200108	Tape on Pipe Fitting	Lower Level East Side Fan Room	NAD
25	1200109	Tape on Pipe Fitting	Lower Level East Side Fan Room	NAD
26	1200110	Baseboard Molding Adhesive	Lower Level East Side Fan Room	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
27	1200111	Baseboard Molding Adhesive	Lower Level East Side Fan Room	NAD
28	1200112	Baseboard Molding Adhesive	Lower Level East Side Fan Room	NAD
29	1200113	Sheetrock	Lower Level East Side Fan Room	NAD
30	1200114	Joint Compound	Lower Level East Side Fan Room	0.80% Chrysotile (Point Count)
31	1200115	Carpet Adhesive	Lower Level East Lobby	NAD
32	1200116	Carpet Adhesive	Lower Level East Lobby	NAD
33	1200117	Ceiling Tile 1' X 1' Brown Fibrous with "Pinhole Pattern" Sheet Metal Facing	Middle Level North Bathroom	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
34	1200118	Ceiling Tile 1' X 1' Brown Fibrous with "Pinhole Pattern" Sheet Metal Facing	Middle Level North Bathroom	NAD
35	1200119	Ceiling Tile 1' X 1' Brown Fibrous with "Pinhole Pattern" Sheet Metal Facing	Middle Level North Bathroom	NAD
36	1200120	Linoleum Mastic From Above	Middle Level West Lobby	NAD NAD
37	1200121	Linoleum Mastic From Above	Middle Level West Lobby	NAD NAD
38	1200122	Linoleum Mastic From Above	Middle Level West Lobby	NAD NAD
39	1200123	Sheetrock	Middle Level East Classroom	NAD
40	1200124	Wallpaper	Middle Level East Classroom	NAD
41	1225029	Beige 12" Floor Tile	Closet Middle Level	2.8% Chrysotile (Point Count)

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
42	1225030	Beige 12" Floor Tile	Closet Middle Level	Not Analyzed*
43	1225031	Beige 12" Floor Tile	Closet Middle Level	Not Analyzed*
44	1225032	Mastic From Beige 12" Floor Tile	Closet Middle Level	10% Chrysotile
45	1225033	Mastic From Beige 12" Floor Tile	Closet Middle Level	Not Analyzed*
46	1225034	Mastic From Beige 12" Floor Tile	Closet Middle Level	Not Analyzed*
47	1225035	Joint Compound	Middle Level East Corridor	1.8% Chrysotile (Point Count)
48	1225036	Joint Compound	Middle Level East Corridor	Not Analyzed*
49	1225037	Joint Compound	Middle Level Southeast Classroom	Not Analyzed*
50	1225038	White 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD
51	1225039	White 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
52	1225040	White 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD
53	1225041	Mastic From White 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD
54	1225042	Purple 12" Floor Tile	Middle Level Dormitory Area Bedroom	NAD
55	1225043	Purple 12" Floor Tile	Middle Level Dormitory Area Bedroom	NAD
56	1225044	Purple 12" Floor Tile	Middle Level Dormitory Area Bedroom	NAD
57	1225045	Blue-Green 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD
58	1225046	Blue-Green 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD
59	1225047	Blue-Green 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
60	1225048	Red-Maroon 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD
61	1225049	Red-Maroon 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD
62	1225050	Red-Maroon 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD
63	1225051	Pink 12" Floor Tile	Middle Level Dormitory Area Bedroom	NAD
64	1225052	Pink 12" Floor Tile	Middle Level Dormitory Area Bedroom	NAD
65	1225053	Pink 12" Floor Tile	Middle Level Dormitory Area Bedroom	NAD
66	1225054	Mastic/Floor Levelastic	Middle Level Dormitory Area Bedroom	NAD
67	1225055	Joint Compound	Middle Level Dormitory Area Bedroom	1.3% Chrysotile (Point Count)
68	1225056	Linoleum	Middle Level Student Dining Area	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
69	1225057	Valve Tipping Cement	Lower Level Mechanical Room 101	NAD
70	1225058	Valve Tipping Cement	Lower Level Mechanical Room 101	NAD
71	1225059	Valve Tipping Cement	Lower Level Mechanical Room 101	NAD
72	1225060	Heat Exchanger Insulation	Lower Level Mechanical Room 101	20% Chrysotile
73	1225061	Heat Exchanger Insulation	Lower Level Mechanical Room 101	Not Analyzed*
74	1225062	Heat Exchanger Insulation	Lower Level Mechanical Room 101	Not Analyzed*
75	1225063	Cloth Wrap on Heat Exchanger	Lower Level Mechanical Room 101	60% Chrysotile
76	1225064	Cloth Wrap on Heat Exchanger	Lower Level Mechanical Room 101	Not Analyzed*
77	1225065	Cloth Wrap on Heat Exchanger	Lower Level Mechanical Room 101	Not Analyzed*
78	1225066	Spray-on Fireproofing	Lower Level Mechanical Room 101	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
79	1225067	Spray-on Fireproofing	Lower Level Mechanical Room 101	NAD
80	1225068	Spray-on Fireproofing	Lower Level Switchgear Room 100	NAD
81	1225069	Pipe Fitting Insulation	Lower Level Mechanical Room 101	NAD
82	1225070	Pipe Fitting Insulation	Lower Level Mechanical Room 101	NAD
83	1225071	Pipe Fitting Insulation	Lower Level Mechganical Room 101	NAD
84	1225072	Joint Compound	Gym Wall Northeast Corner	1.5% Chrysotile (Point Count)
85	1225073	Brown 12" Floor Tile Mastic	Fan Room off Intermediate Landing Between Middle and Upper Levels	3.0% Chrysotile (Point Count) 10% Chrysotile
86	1225074	Brown 12" Floor Tile	Fan Room off Intermediate Landing Between Middle and Upper Levels	Not Analyzed*

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
87	1225075	Brown 12" Floor Tile	Fan Room off Intermediate Landing Between Middle and Upper Levels	Not Analyzed*
88	1225076	Spray-on Fireproofing	Fan Room off Intermediate Landing Between Middle and Upper Levels	NAD
89	1225077	White Linoleum	Upper Level Kitchen	NAD
90	1225078	White Linoleum	Upper Level Kitchen	NAD
91	1225079	White Linoleum Mastic	Upper Level Kitchen	NAD NAD
92	1225080	Beige 12" Floor Tile	South Stairwell Upper Level Landing	NAD
93	1225081	Joint Compound	South Stairwell Upper Level Landing	1.3% Chrysotile (Point Count)
94	1225082	Red Floor Treatment	Middle Level Kitchen	NAD
95	1225083	Red Floor Treatment	Middle Level Kitchen	NAD
96	1225084	Red Floor Treatment	Middle Level Kitchen	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
97	1225085	Carpet Adhesive	Middle Level West Corridor Near Kitchen	NAD
98	1225086	Window Caulk	Middle Level East Side	NAD
99	1225087	Window Caulk	Middle Level East Side	NAD
100	1225088	Window Caulk	Middle Level East Side	NAD
101	1225089	Plaster	Exterior Canopy Overhang Outside Window East Side	NAD
102	1225090	Plaster	Exterior Canopy Overhang Outside Window East Side	NAD
103	1225091	Plaster	Exterior Canopy Overhang Outside Window East Side	NAD

NOTE: "NAD" INDICATES NO ASBESTOS DETECTED

* EPA protocols consider one positive result as confirmation that a material contains asbestos. If the first sample of a material is found to contain asbestos, no further confirmation is necessary and any additional samples are therefore not analyzed.

3.2 Asbestos Analytical Procedures

Analysis was performed by International Asbestos Testing Laboratories, Inc. (IATL), Mt. Laurel, New Jersey, a National Institute of Standards and Technology accredited laboratory. Analysis was performed using Polarized Light Microscopy (PLM) Method EPA 600. Point counting was used to quantify asbestos content for all samples found to contain less than ten percent asbestos.

3.3 Asbestos Analytical Results

The results of recent bulk sampling performed by DELTA are summarized in Table 3-1. Laboratory data sheets are included in Appendix B.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: brown 12" floor tile and mastic; beige 12" floor tile and mastic; cloth wrap on pipe fittings, piping and a heat exchanger; heat exchanger insulation; and sheetrock joint compound.

The various types of vinyl floor tile in the building were found to contain between 1.5 and 3.5% chrysotile asbestos. The tile mastic was found to contain between 5.5 and 10% chrysotile. The floor tile is generally in good condition. Though the tile is unlikely to present a hazard unless it is actively disturbed, any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile and mastic as asbestos.

A cloth wrap material present in building mechanical rooms was found to contain 40-60% chrysotile asbestos. The wrap material was found over both asbestos-containing and non-asbestos insulation. Heat exchanger insulation in the main mechanical room (Room 101) was found to contain 20% chrysotile asbestos.

Seven of eight samples of sheetrock joint compound in the building were found to contain greater than one percent chrysotile asbestos (one sample contained 0.8% asbestos). The concentrations in the seven samples ranged from 1.3 to 2.5%, as determined by the "point counting" method of quantification.

TABLE 3-2: ASBESTOS-CONTAINING MATERIAL DURANT BUILDING MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
HOMOGENEOUS AREA NUMBER	**MATERIAL DESCRIPTION**	**LOCATION**	**ASBESTOS TYPE AND CONTENT (%)**
1	Sheetrock Joint Compound	Throughout	2.5% Chrysotile
2	Brown 12" Floor Tile	Closets and Isolated Areas Throughout	3.5% Chrysotile
3	Mastic From Brown 12" Floor Tile	Closets and Isolated Areas Throughout	7.5% Chrysotile
4	Beige 12" Floor Tile	Middle Level East Side Closets	2.8% Chrysotile
5	Mastic From Beige 12" Floor Tile		10% Chrysotile
6	Cloth Wrap on Pipe Fittings, Piping and Heat Exchanger	Lower Level Mechanical Room 101 and East Fan Room	60% Chrysotile
7	Heat Exchanger Insulation	Lower Level Mechanical Room 101	20% Chrysotile

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

HOMOGENEOUS AREA NUMBER	MATERIAL DESCRIPTION	LOCATION	ASBESTOS TYPE AND CONTENT (%)
8	Ceiling Tile - 1' X 2'	Throughout	NAD
9	Sheetrock	Throughout	NAD
10	Carpet Adhesive	Throughout	NAD
11	Mastic From Wood Tile Flooring	Lower Level Media Center	NAD
12	Tape on Pipe Fittings	Lower Level East Fan Room	NAD
13	Baseboard Molding Adhesive	Throughout	NAD
14	Ceiling Tile - 1' X 1'	Middle Level Bathrooms	NAD
15	Tan Linoleum	Middle Level Lobbies and Dining Area	NAD
16	Mastic From Tan Linoleum	Middle Level Lobbies and Dining Area	NAD
17	Wallpaper	Throughout	NAD
18	White 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL DURANT BUILDING MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
HOMOGENEOUS AREA NUMBER	**MATERIAL DESCRIPTION**	**LOCATION**	**ASBESTOS TYPE AND CONTENT (%)**
19	Mastic From White 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD
20	Purple 12" Floor Tile	Middle Level Dormitory Area Bedrooms	NAD
21	Mastic From Purple 12" Floor Tile	Middle Level Dormitory Area Bedrooms	NAD
22	Blue-Green 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD
23	Mastic From Blue-Green 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD
24	Red-Maroon 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD
25	Mastic From Red-Maroon 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

HOMOGENEOUS AREA NUMBER	MATERIAL DESCRIPTION	LOCATION	ASBESTOS TYPE AND CONTENT (%)
26	Pink 12" Floor Tile	Middle Level Dormitory Area Bedrooms	NAD
27	Mastic From Pink 12" Floor Tile	Middle Level Dormitory Area Bedrooms	NAD
28	Valve Tipping Cement	Lower Level Mechanical Room 101	NAD
29	Pipe Fitting Insulation	Lower Level Mechanical Room 101	NAD (Cloth Wrap Over Fittings is ACM)
30	Spray-on Fireproofing	Lower Level Mechanical Room 101 and Fan Room off Intermediate Landing Between Middle and Upper Levels	NAD
31	White Linoleum	Upper Level Kitchen	NAD
32	Mastic From White Linoleum	Upper Level Kitchen	NAD
33	Red Epoxy Floor Treatment	Middle Level Kitchen	NAD

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL DURANT BUILDING MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
HOMOGENEOUS AREA NUMBER	**MATERIAL DESCRIPTION**	**LOCATION**	**ASBESTOS TYPE AND CONTENT (%)**
34	Plaster	Exterior Canopy Overhang	NAD
35	Window Caulk	Exterior Windows Throughout	NAD
NOTE: NAD indicates "No Asbestos Detected"			

Based on the sampling data, all of the joint compound in the building (samples from all three levels were found to contain asbestos) must be considered an asbestos-containing material. Much of the sheetrock in the building is covered with wallpaper. The sheetrock throughout much of the basement shows signs of mold and mildew. The basement is currently not in use, reportedly due to the severe mold and mildew problem. The joint compound is unlikely to present an asbestos hazard unless it is actively disturbed. However, the presence of asbestos in the joint compound will have a significant impact on any future building renovation activities necessary for reoccupancy of the basement. Section 5.0 of this report provides a cost estimate for abatement which may be useful in planning any renovation work.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

Materials found not to contain asbestos include: spray-on fireproofing in the mechanical rooms; pipe fitting insulation (the outer cloth wrap on the fittings contains asbestos) in the main mechanical room (Room 101); and exterior window caulking material.

4.0. DISCUSSION AND RECOMMENDATIONS

The Durant Building is a two-story (with partial upper level) masonry structure. The building covers approximately 40,000 square feet and was constructed in 1974. The building consists of: a gymnasium, classrooms, storage areas, and mechanical rooms in the basement ("lower level"); classrooms, offices, a kitchen and a cafeteria on the first floor ("middle level"); and dormitory areas on the second floor ("upper level"). The building is heated via a forced hot air system with some baseboard electric units.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: brown 12" floor tile and mastic; beige 12" floor tile and mastic; cloth wrap on pipe fittings, piping and a heat exchanger; heat exchanger insulation; and sheetrock joint compound.

The various types of vinyl floor tile in the building were found to contain between 1.5 and 3.5% chrysotile asbestos. The tile mastic was found to contain between 5.5 and 10% chrysotile. The floor tile is generally in good condition. Though the tile is unlikely to present a hazard unless it is actively disturbed, any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile and mastic as asbestos.

A cloth wrap material present in building mechanical rooms was found to contain 40-60% chrysotile asbestos. The wrap material was found over both asbestos-containing and non-asbestos insulation. Heat exchanger insulation in the main mechanical room (Room 101) was found to contain 20% chrysotile asbestos.

Seven of eight samples of sheetrock joint compound in the building were found to contain greater than one percent chrysotile asbestos (one sample contained 0.8% asbestos). The concentrations in the seven samples ranged from 1.3 to 2.5%, as determined by the "point counting" method of quantification.

Based on the sampling data, all of the joint compound in the building must be considered an asbestos-containing material. The sheetrock throughout much of the basement shows signs of mold and mildew. The basement is currently not in use, reportedly due to the severe mold and mildew problem. The joint compound is unlikely to present an asbestos hazard unless it is actively disturbed. However, the presence of asbestos in the joint compound will have a significant impact on any future building renovation activities necessary for reoccupancy of the basement.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

5.0 ESTIMATED COST FOR ASBESTOS ABATEMENT

A cost estimate for abatement of all identified asbestos-containing materials in the building is outlined in Table 5-1. The estimated cost for abatement of the building (including thermal systems reinsulation) is $546,793. It should be noted that the cost estimate does not include removal of roofing materials. The cost estimate utilizes standard unit prices for removal of different types of asbestos-containing materials. When an actual asbestos abatement project is planned, a more precise estimate can be developed based on the specific work scope.

TABLE 5-1: ASBESTOS ABATEMENT COST ESTIMATE
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT
(TOTAL ABATEMENT OF ASBESTOS-CONTAINING MATERIALS)

Building/Description	Quantity	Unit	Unit Cost	Subtotal Cost	Consultant (20%)	Contingency (10%)	Total Cost
REMOVAL							
Thermal Systems Insulation	133	SF	$10.00	$1,330	$266	$133	$1,729
Thermal Systems Insulation	20	LF	$15.00	$300	$60	$30	$390
Misc. (Sheetrock)	80,000	SF	$5.00	$400,000	$80,000	$40,000	$520,000
Misc. (VAT/Mastic)	3,470	SF	$5.00	$17,350	$3,470	$1,735	$22,555
REPLACEMENT							
Thermal Systems Insulation	133	SF	$10.00	$1,330	$266	$133	$1,729
Thermal Systems Insulation	20	LF	$15.00	$300	$60	$30	$390
Misc.		SF	N/A				
GRAND TOTAL				$420,610	$84,122	$42,061	$546,793
						ABATEMENT ESTIMATE:	**$546,793**

NOTE: TABLE DOES NOT INCLUDE ABATEMENT OF ANY EXTERIOR ASBESTOS SUCH AS WINDOW CAULK OR ROOFING.

6.0. LIMITATIONS

The survey has the following limitations:

- DELTA's survey included an evaluation for the presence of asbestos-containing insulation on electrical equipment in the building. The inspection included building wiring, whips and fixtures. No suspect insulation was found. The inspection was designed to cover a representative portion of the building, since it was not feasible to examine all fixtures, junction boxes, etc.

- The survey did not utilize "destructive" sampling methods, and therefore may not have identified all of the asbestos-containing materials in the building. Specifically, the inspection did not include areas enclosed by walls or ceilings, unless these spaces could be accessed without damage.

- The survey did not include destructive sampling of furnishings such as chalkboards, corkboards, fire doors and benchtops.

- The survey attempted to access and identify asbestos-containing materials associated with HVAC and mechanical systems. However, such systems were not dismantled during the inspection. It is possible that boilers, furnaces, fan units and other devices may contain gaskets and other interior asbestos material which can only be accessed through dismantling them. Care should be taken to avoid the accidental disturbance of asbestos during maintenance or repair work on such devices.

APPENDIX A

Inventory of Identified Asbestos-Containing Material

DURANT BUILDING
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
LOWER LEVEL													
	GYM OFFICE AREA	1	SHEETROCK JOINT COMPOUND	2%			2,500						
	MEDIA CENTER	1	SHEETROCK JOINT COMPOUND	2%			1,200						
	GYM	1	SHEETROCK JOINT COMPOUND	2%			2,500						
CORRIDORS		1	SHEETROCK JOINT COMPOUND	2%			6,100						
CLASSROOM 1	CLOSET	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	40								
CLASSROOM 1		1	SHEETROCK JOINT COMPOUND	2%			1,600						
CLASSROOM 2	CLOSET	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	40								
CLASSROOM 2		1	SHEETROCK JOINT COMPOUND	2%			1,600						
CLASSROOM 3	CLOSET	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	40								
CLASSROOM 3		1	SHEETROCK JOINT COMPOUND	2%			1,600						
CLASSROOM 4	CLOSET	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	40								
CLASSROOM 4		1	SHEETROCK JOINT COMPOUND	2%			1,600						
CLASSROOM 5	CLOSET	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	40								
CLASSROOM 5		1	SHEETROCK JOINT COMPOUND	2%			1,600						
CLASSROOM 6	CLOSET	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	40								
CLASSROOM 6		1	SHEETROCK JOINT COMPOUND	2%			1,600						
CLASSROOM 7	CLOSET	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	40								
CLASSROOM 7		1	SHEETROCK JOINT COMPOUND	2%			1,600						
CLASSROOM 8	CLOSET	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	70								
CLASSROOM 8		1	SHEETROCK JOINT COMPOUND	2%			1,600						
CUST. CLOSET	NEAR SE ENTR.	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	200								
FAN ROOM	SE MECH. RM.	6	CLOTH PIPE FITTING WRAP	40%					3				ASB WRAP OVER FBGL FITTINGS
FAN ROOM	SE MECH. RM.	1	SHEETROCK JOINT COMPOUND	2%			140						
100	SWITCHGEAR	1	SHEETROCK JOINT COMPOUND	2%			400						
101	MECH. EQUIPMENT	6	CLOTH PIPE WRAP	60%				20					ASB WRAP OVER FBGL PIPING
101	MECH. EQUIPMENT	6, 7	CLOTH WRAP/BLOCK INSUL.	60% / 20%							30		VERTICAL HEAT EXCHGR.
101	MECH. EQUIPMENT	6, 7	CLOTH WRAP/BLOCK INSUL.	60% / 20%							70		HORIZ. HEAT EXCHGR.
101	MECH. EQUIPMENT	6, 7	CLOTH WRAP/BLOCK INSUL.	60% / 20%							30		EXP DRUM ABOVE VAC PUMP
101	MECH. EQUIPMENT	1	SHEETROCK JOINT COMPOUND	2%			400						
102	ELEV. MOTOR RM.	1	SHEETROCK JOINT COMPOUND	2%		80							
NW CORRIDOR	NEAR RM. 103-104	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	250								
107	STORAGE	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	300								
107	STORAGE	1	SHEETROCK JOINT COMPOUND	2%			600						
109	LAUNDRY	1	SHEETROCK JOINT COMPOUND	2%			400						

DURANT BUILDING
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
MIDDLE LEVEL													
EAST WING	CLASSROOMS	1	SHEETROCK JOINT COMPOUND	2%			13,000						
NORTH WING	DORMITORY	1	SHEETROCK JOINT COMPOUND	2%			13,000						
WEST WING	OFFICES/KITCHEN	1	SHEETROCK JOINT COMPOUND	2%			5,500						
	CORRIDORS/LOBBIES	1	SHEETROCK JOINT COMPOUND	2%			7,800						
VESTIBULE	NEAR SE ENTRANCE	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	60								
CLOSET	EAST WING	4, 5	12" BEIGE FLOOR TILE/MASTIC	2.8% / 10%	15								
CLOSET	EAST WING	4, 5	12" BEIGE FLOOR TILE/MASTIC	2.8% / 10%	15								
CLOSET	EAST WING	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	50								CLEANING CLOSET
CLOSET	EAST WING	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	70								CLEANING CLOSET
CLOSET	NORTH WING	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	50								CLEANING CLOSET
CLOSET	NORTH WING	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	70								CLEANING CLOSET
VESTIBULE	NEAR NW ENTR.	4, 5	12" BEIGE FLOOR TILE/MASTIC	2.8% / 10%	10								
UPPER LEVEL													
CLOSET	CENTRAL CORRIDOR	4, 5	12" BEIGE FLOOR TILE/MASTIC	2.8% / 10%	20								
UPPER LEVEL	THROUGHOUT	1	SHEETROCK JOINT COMPOUND	2%			13,000						
STAIRWELLS													
SOUTHEAST	TREADS AND LANDINGS	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	400								
SOUTHWEST	TREADS AND LANDINGS	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	800								
SOUTHWEST	THIRD FL. LANDING	4, 5	12" BEIGE FLOOR TILE/MASTIC	2.8% / 10%	10								
NORTHWEST	TREADS AND LANDINGS	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	800								

APPENDIX B

Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/20/2000
Project: Mystic Education Center, 12-12-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1195621 **Material Description:** White/TanCeilingTile
Client No.: 1D **Location:** Corridor Near 138

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	85	Mineral Wool	15

Lab No. 1195622 **Material Description:** White/TanCeilingTile
Client No.: 2D **Location:** Corridor Near 138

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	85	Mineral Wool	15

Lab No. 1195623 **Material Description:** White/TanCeilingTile
Client No.: 3D **Location:** Corridor Near 112

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	85	Cellulose	15

Lab No. 1195624 **Material Description:** Lt.Yellow Jt. Comp.
Client No.: 4D **Location:** Corridor Near 115

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.5	Chrysotile	None Detected	None Detected	PC 97.5

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: _____

Date: _____

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/20/2000
Project: Mystic Education Center, 12-12-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1195625 **Material Description:** Lt.Yellow Jt. Comp.
Client No.: 5D **Location:** Office 136

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.8	Chrysotile	None Detected	None Detected	PC 98.2

Lab No. 1195626 **Material Description:** Brown Floor Tile
Client No.: 6D **Location:** Black Mastic Stairwell Landing

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.5	Chrysotile	None Detected	None Detected	PC 96.5

Lab No. 1195626 **Material Description:** Brown Floor Tile
Client No.: 6D **Location:** Black Mastic Stairwell Landing

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 7.5 Black Mastic From Above	Chrysotile	Trace	Cellulose	PC 92.5

Lab No. 1195627 **Material Description:** Sample Not Analyzed
Client No.: 7D **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: DEC 1 0 2000

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/20/2000
Project: Mystic Education Center, 12-12-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1195628
Client No.: 8D

Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 609.231.9449 Fax: 609.231.9818

972/8

- Chain of Custody -

Client: Delta Environmental Services
P.O. Box 564
Branford, CT 06405

Project Name: Mystic Education Center
Project No.: D97-148-24

Phone: (203) 481-7668
FAX: (203) 488-8164

Contact:
Pager:

Special Instructions:

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[✓] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400	[✓] PLM : Bulk Asbestos EPA 600	[ ] TEM : AHERA
[ ] PCM : OSHA	[ ] PLM : Point Counting 198.1	[ ] TEM : NIOSH 7402
[ ] PCM : Other_____	[ ] PLM : NOB via 198.1 (PLM only)	[ ] TEM : EPA Level II
	[ ] If <1% by PLM, to TEM via 198.4	[ ] TEM : Microvac Dust
[ ] AAS : NIOSH 7082 (Air)	to meet NYSDOH requirements **	[ ] TEM : Asbestos in Water
[ ] AAS : Lead in Drinking Water	(**call to confirm TAT!)	[ ] TEM : Bulk Analysis
[ ] AAS : Lead in Paint ASTM D3335-85a		[ ] TEM : NOB 198.4
[ ] AAS : Lead Dust/Wipe		[ ] TEM : Other_____
[ ] AAS : Other Metals / Soil_____		[ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ date / time Verbals: _____ date / time

[ ] 10 Day [ ] 5 Day [✓] 72 hour [ ] 48 hour [ ] 24 hour [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

1p - 12p
1c - 18c
1d - 8d

Client #(s): _____ (start) - _____ (end) IATL#(s): _____ (start) - _____ (end) Total: ___

Chain of Custody:

Relinquished:	James R. Mulatz	Date: 12/12/00	Time: 4:20 p.m.
Received:		Date:	Time:
Sample Log-in:	[illegible]	Date: 12/16/00	Time: 0915
Sample Prep:		Date: 12/19/00	Time:
Analyzed:		Date:	Time:
QA/QC Review:	MM [illegible] @ 12/27/00	Date: 14	Time:

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Durant Building

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify ___ O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
1d	1'x2' Ceiling Tile						Asbestos PLM EPA 600 1195621 please use positive stop	Corridor Near 138				
2d	↓						1195622 ↓	Corridor Near 138				
3d	↓						1195623 ↓	Corridor Near 112				
4d	Wall Paper/ Joint Compound						1195624	Corridor Near 115				
5d	Wall Paper/ Joint Compound						1195625	Office 136				
6d	Brown 12" Floor Tile						1195626 please use positive stop	Stairwell Landing				
7d	↓						1195627 ↓	↓				
8d	↓						1195628 ↓	↓				

Container Codes: P = Plastic E = EPA VIAL G = Glass A = Amber Glass B = Bacteria Bottle
Preservative Codes: I = Iced F = Filtered N = Nitric Acid (HNO_3) H = Hydrochloric Acid (HCl) S= Sodium Hydroxide (NaOH) T = Sodium Thiosulfate F = Sulfuric Acid
O = Other; Specify ___

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melatto	Delta			1		James R Melatto			
ADDITIONAL COMMENTS:				2					
				3					
				4					

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/30/2000
Project: MysticEd.Ctr.;Dyrant Bldg.,12-21-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200093 **Material Description:** Tan Sheetrock
Client No.: 9 **Location:** Room 142

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	60

No Joint Compound

Lab No. 1200094 **Material Description:** Brown Floor Tile
Client No.: 10 **Location:** Room 140

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.5	Chrysotile	None Detected	None Detected	PC 98.5

Lab No. 1200095 **Material Description:** Sample Not Analyzed
Client No.: 11 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1200096 **Material Description:** Sample Not Analyzed
Client No.: 12 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Graciela Manjarres N.

Date: DEC 27 2000

Graciela Manjarres N., AIHA-AAR [illegible]

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/28/2000
Project: MysticEd.Ctr.;Dyrant Bldg.,12-21-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200097 **Material Description:** Black Mastic
Client No.: 13 **Location:** Room 140

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 5.5	Chrysotile	None Detected	None Detected	PC 94.5

Lab No. 1200098 **Material Description:** Sample Not Analyzed
Client No.: 14 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1200099 **Material Description:** Sample Not Analyzed
Client No.: 15 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1200100 **Material Description:** Tan Mastic
Client No.: 16 **Location:** Room 148

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: Graciela Manjarres N.

Date: DEC 27 2000

Graciela Manjarres N., AIHA-AAR 4009

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/28/2000
Project: MysticEd.Ctr.;Dyrant Bldg.,12-21-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200101 **Material Description:** Grey Non Fibrous
Client No.: 17 **Location:** Media Center

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200102 **Material Description:** Tan Non Fibrous
Client No.: 18 **Location:** Media Center

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200103 **Material Description:** Tan Non Fibrous
Client No.: 19 **Location:** Media Center

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200104 **Material Description:** White Fibrous
Client No.: 20 **Location:** Fan Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
40	Chrysotile	50	Synthetic	10

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Graciela Manjarres N.

Date: DEC 27 2000 Graciela Manjarres N., AIHA-AAR 1000

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/28/2000
Project: MysticEd.Ctr.;Dyrant Bldg.,12-21-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200105 **Material Description:** Sample Not Analyzed
Client No.: 21 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1200106 **Material Description:** Sample Not Analyzed
Client No.: 22 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1200107 **Material Description:** Tan Fibrous
Client No.: 23 **Location:** Fan Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	60

Lab No. 1200108 **Material Description:** Tan Fibrous
Client No.: 24 **Location:** Fan Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	60

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: Graciela Manjarres N.

Date: DEC 27 2000 Graciela Manjarres N., AIHA-AAP

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/28/2000
Project: MysticEd.Ctr.;Dyrant Bldg.,12-21-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200109 **Material Description:** Tan Fibrous
Client No.: 25 **Location:** Fan Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	50	Cellulose	50

Lab No. 1200110 **Material Description:** Brown Non Fibrous
Client No.: 26 **Location:** Fan Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200111 **Material Description:** Brown Non Fibrous
Client No.: 27 **Location:** Fan Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200112 **Material Description:** Brown Non Fibrous
Client No.: 28 **Location:** Fan Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: Graciela Manjarres U.

Date: DEC 27 2000 Graciela Manjarres N., AIHA-AAP

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/28/2000
Project: MysticEd.Ctr.;Dyrant Bldg.,12-21-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200113 **Material Description:** Tan Sheetrock
Client No.: 29 **Location:** Fan Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	35	Cellulose	65

Lab No. 1200114 **Material Description:** Tan Joint Compound
Client No.: 30 **Location:** Fan Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.80	Chrysotile	None Detected	None Detected	PC 99.2

Lab No. 1200115 **Material Description:** Tan Mastic
Client No.: 31 **Location:** First Floor Lobby

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	5	Cellulose	95

Lab No. 1200116 **Material Description:** Tan Mastic
Client No.: 32 **Location:** First Floor Lobby

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	5	Synthetic	95

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Graciela Manjarres N.

Date: DEC 27 2000 Graciela Manjarres N., AIHA-AAR

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/28/2000
Project: MysticEd.Ctr.;Dyrant Bldg.,12-21-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200117 **Material Description:** Tan Ceiling Tile
Client No.: 33 **Location:** 1x1; Second Floor Bathroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Cellulose	25
		30	Fibrous Glass	

Lab No. 1200118 **Material Description:** Tan Ceiling Tile
Client No.: 34 **Location:** 1x1; Second Floor Bathroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Cellulose	25
		30	Fibrous Glass	

Lab No. 1200119 **Material Description:** Tan Ceiling Tile
Client No.: 35 **Location:** 1x1; Second Floor Bathroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Cellulose	25
		30	Fibrous Glass	

Lab No. 1200120 **Material Description:** Tan Linoleum
Client No.: 36 **Location:** Tan Mastic Second Floor Lobby

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Graciela Manjarres N.

Date: DEC 28 2000 Graciela Manjarres N., AIHA-AAR

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/28/2000
Project: MysticEd.Ctr.;Dyrant Bldg.,12-21-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200120 **Material Description:** Tan Linoleum
Client No.: 36 **Location:** Tan Mastic Second Floor Lobby

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Tan Mastic				
From Above				

Lab No. 1200121 **Material Description:** Tan Linoleum
Client No.: 37 **Location:** Tan Mastic Second Floor Lobby

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80

Lab No. 1200121 **Material Description:** Tan Linoleum
Client No.: 37 **Location:** Tan Mastic Second Floor Lobby

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Tan Mastic				
From Above				

Lab No. 1200122 **Material Description:** Tan Linoleum
Client No.: 38 **Location:** Tan Mastic Second Floor Lobby

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: Graciela Manjarres N.

Approved By: Frank Ehrenfeld

Date: DEC 28 2000 Graciela Manjarres N., AIHA-AAP

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

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CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/28/2000
Project: MysticEd.Ctr.;Dyrant Bldg.,12-21-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200122 **Material Description:** Tan Linoleum
Client No.: 38 **Location:** Tan Mastic Second Floor Lobby

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Tan Mastic
From Above

Lab No. 1200123 **Material Description:** Tan Sheetrock
Client No.: 39 **Location:** Second Floor Classroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Cellulose	55

No Joint Compound

Lab No. 1200124 **Material Description:** White Fibrous
Client No.: 40 **Location:** Second Floor Classroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	80	Cellulose	20

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Graciela Manjarres N.

Date: DEC 28 2000 Graciela Manjarres N., AIHA-AAP

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Durant Bldg.

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
9	Sheetrock wall				1200093		Asbestos PLM EPA 600	Room 142				
10	Brown 12" Floor Tile				1200094		Please use positive stop	Room 140				
11	↓				1200095		↓	↓				
12	↓				1200096		↓	↓				
13	Mastic From Brown 12" Floor Tile				1200097		Please use positive stop	↓				
14	↓				1200098		↓	↓				
15	↓				1200099		↓	↓				
16	Carpet Adhesive				1200100			Room 14E				
17	Mastic From Wood Tile Flooring				1200101			Media Center				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify ___, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
18	Mystic From Wood Tile Flooring				1200102		Asbestos PLM EPA 600 Please use positive stop	Media Center				
19	↓				1200103		↓	↓				
20	Cloth Pipe Filting Wrap				1200104		Please use positive stop	Fan Room				
21	↓				1200105		↓	↓				
22	↓				1200106		↓	↓				
23	Tape on Pipe Filting				1200107		Please use positive stop	↓				
24	↓				1200108		↓	↓				
25	↓				1200109		↓	↓				
26	Backbound Molding Adhesive				1200110			↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify ___

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melatto	Delta			1		James R Melatto			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED		COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
27	Elastomeric Molding Adhesive				1200111		Asbestos PLM EPA 600	Please use positive stop	Fan Room				
28	↓				1200112			↓	↓				
29	Sheetrock				1200113								
30	Joint Compound				~~1200114~~								
31	Carpet Adhesive				1200115			Please use positive stop	~~First~~ Floor Lobby				
32	↓				1200116			↓	↓				
33	Ceiling Tile Type 2' 1x1'				1200117			Please use positive stop	Second Floor Bathroom				
34	↓				1200118			↓	↓				
35	↓				1200119			↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P. McLaughlin	Delta			1		James P. McLaughlin			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
36	Linoleum + Adhesive				1200	120	Asbestos PLM EPA 600 — Please use positive stop	Second Floor Lobby				
37	↓				1200	121	↓	↓				
38	↓				1200	122	↓	↓				
39	Sheetrock				1200	123		Second Floor Classroom				
40	Wallpaper				1200	124		↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melatto	Delta			1		James R Melatto			
ADDITIONAL COMMENTS:				2					
				3					
				4					

IATL International Asbestos Testing Laboratories

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/16/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225029 **Material Description:** Lt Green Floor Tile
Client No.: 41 **Location:** Closet Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.8	Chrysotile	None Detected	None Detected	PC 97.2

Lab No. 1225030 **Material Description:** Sample Not Analyzed
Client No.: 42 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1225031 **Material Description:** Sample Not Analyzed
Client No.: 43 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1225032 **Material Description:** Black Mastic
Client No.: 44 **Location:** Closet Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	None Detected	None Detected	90

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith III.
Vane G. Smith, III, AIHA-AAR 4719

Date:

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/16/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225033 **Material Description:** Sample Not Analyzed
Client No.: 45 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1225034 **Material Description:** Sample Not Analyzed
Client No.: 46 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1225035 **Material Description:** Tan Jt Compound
Client No.: 47 **Location:** Classrooms Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.8	Chrysotile	None Detected	None Detected	PC 98.2

Lab No. 1225036 **Material Description:** Sample Not Analyzed
Client No.: 48 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: Vane G. Smith, III
Vane G. Smith, III, AIHA-AAR 4719

Date:

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

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PO Box 564
Branford CT 06405

Report Date: 02/16/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225037 **Material Description:** Sample Not Analyzed
Client No.: 49 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1225038 **Material Description:** White Floor Tile
Client No.: 50 **Location:** Dorm Area Corridor E Side;Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225039 **Material Description:** White Floor Tile
Client No.: 51 **Location:** Dorm Area Corridor E Side;Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225040 **Material Description:** White Floor Tile
Client No.: 52 **Location:** Dorm Area Corridor E Side;Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: Vane G. Smith, III
Vane G. Smith, III, AIHA-AAR 4719

Date:

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/16/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225041 **Material Description:** Tan Mastic
Client No.: 53 **Location:** Dorm Area Corridor E Side;Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225042 **Material Description:** Blue Floor Tile
Client No.: 54 **Location:** Dorm Area Bedroom Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225043 **Material Description:** Blue Floor Tile
Client No.: 55 **Location:** Dorm Area Bedroom Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225044 **Material Description:** Blue Floor Tile
Client No.: 56 **Location:** Dorm Area Bedroom Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: Vane G. Smith, III
Vane G. Smith, III, AIHA-AAR 4719

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

Date:

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CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
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Branford CT 06405

Report Date: 02/16/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225045 **Material Description:** Blue/Grn Floor Tile
Client No.: 57 **Location:** Dorm Area Corridor Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225046 **Material Description:** Blue/Grn Floor Tile
Client No.: 58 **Location:** Dorm Area Corridor Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225047 **Material Description:** Blue/Grn Floor Tile
Client No.: 59 **Location:** Dorm Area Corridor Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225048 **Material Description:** Maroon Floor Tile
Client No.: 60 **Location:** Dorm Area Corridor Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: Vane G. Smith III
Vane G. Smith, III, AIHA-AAR 4719

Date:

Approved By: Frank E. Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/16/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225049 **Material Description:** Maroon Floor Tile
Client No.: 61 **Location:** Dorm Area Corridor Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225050 **Material Description:** Maroon Floor Tile
Client No.: 62 **Location:** Dorm Area Corridor Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225051 **Material Description:** Lt Tan Floor Tile
Client No.: 63 **Location:** Dorm Area Bedroom Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225052 **Material Description:** Lt Tan Floor Tile
Client No.: 64 **Location:** Dorm Area Bedroom Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith III
Vane G. Smith, III, AIHA-AAR 4719

Date:

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/16/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225053 **Material Description:** Lt Tan Floor Tile
Client No.: 65 **Location:** Dorm Area Bedroom Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225054 **Material Description:** White Floor Grout
Client No.: 66 **Location:** Lt Tan Mastic;Dorm Bedrm;Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225054 **Material Description:** White Floor Grout
Client No.: 66 **Location:** Lt Tan Mastic;Dorm Bedrm;Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Lt Tan Mastic				
From Above				

Lab No. 1225055 **Material Description:** Tan Jt Compound
Client No.: 67 **Location:** Dorm Area Bedroom Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.3	Chrysotile	None Detected	None Detected	PC 98.7

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith III
Vane G. Smith, III, AIHA-AAR 4719

Date:

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/16/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225056 **Material Description:** Lt Brown Linoleum
Client No.: 68 **Location:** Student Dining Area

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	10	Cellulose	90

Lab No. 1225057 **Material Description:** Lt Grey Insulation
Client No.: 69 **Location:** Mechanical Rm 101 Lower Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Fibrous Glass	80

Lab No. 1225058 **Material Description:** WhiteGrey Insulation
Client No.: 70 **Location:** Mechanical Rm 101 Lower Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Fibrous Glass	80

Lab No. 1225059 **Material Description:** WhiteGrey Insulation
Client No.: 71 **Location:** Mechanical Rm 101 Lower Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	15	Fibrous Glass	85

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Vane G. Smith, III, AIHA-AAR 4719

Date:

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Laboratory Director

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CERTIFICATE OF ANALYSIS

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Branford CT 06405

Report Date: 02/27/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225060 **Material Description:** Grey/BrownInsulation
Client No.: 72 **Location:** Mechanical Rm 101 Lower Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
20	Chrysotile	None Detected	None Detected	80

Lab No. 1225061 **Material Description:** Sample Not Analyzed
Client No.: 73 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1225062 **Material Description:** Sample Not Analyzed
Client No.: 74 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1225063 **Material Description:** White Fibrous Mat'l
Client No.: 75 **Location:** Mechanical Rm 101 Lower Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
60	Chrysotile	35	Synthetic	5

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

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Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225064 **Material Description:** Sample Not Analyzed
Client No.: 76 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1225065 **Material Description:** Sample Not Analyzed
Client No.: 77 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1225066 **Material Description:** Grey Fibrous Mat'l
Client No.: 78 **Location:** Mechanical Rm 101 Lower Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	55	Fibrous Glass	45

Lab No. 1225067 **Material Description:** Grey Fibrous Mat'l
Client No.: 79 **Location:** Mechanical Rm 101 Lower Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	50	Fibrous Glass	50

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

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Date:

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CERTIFICATE OF ANALYSIS

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Report Date: 02/16/2001
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Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225068 **Material Description:** Grey Fibrous Mat'l
Client No.: 80 **Location:** Switchgear Rm 100 Lower Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	60	Fibrous Glass	40

Lab No. 1225069 **Material Description:** Grey Fibrous Mat'l
Client No.: 81 **Location:** Mechanical Rm 101 Lower Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	10	Fibrous Glass	90

Lab No. 1225070 **Material Description:** Grey Fibrous Mat'l
Client No.: 82 **Location:** Mechanical Rm 101 Lower Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	10	Fibrous Glass	90

Lab No. 1225071 **Material Description:** Grey Fibrous Mat'l
Client No.: 83 **Location:** Mechanical Rm 101 Lower Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	10	Fibrous Glass	90

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

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Date:

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CERTIFICATE OF ANALYSIS

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Report Date: 02/27/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225072 **Material Description:** Tan Jt Compound
Client No.: 84 **Location:** Gym Wall

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.5	Chrysotile	None Detected	None Detected	PC 98.5

Lab No. 1225073 **Material Description:** Brown Floor Tile
Client No.: 85 **Location:** Black Mastic;Fan Rm Interm Landing M/U

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.0	Chrysotile	None Detected	None Detected	97

Lab No. 1225073 **Material Description:** Brown Floor Tile
Client No.: 85 **Location:** Black Mastic;Fan Rm Interm Landing M/U

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	None Detected	None Detected	90
Black Mastic				
From Above				

Lab No. 1225074 **Material Description:** Sample Not Analyzed
Client No.: 86 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Performed By: Vane G. Smith III
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Date:

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Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225075 **Material Description:** Sample Not Analyzed
Client No.: 87 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1225076 **Material Description:** Lt Tan Fibrous Mat'l
Client No.: 88 **Location:** Fan Rm Off Interm Landing Middle/Upper

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	60	Fibrous Glass	40

Lab No. 1225077 **Material Description:** White Linoleum
Client No.: 89 **Location:** Upper Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	15	Cellulose	85

Lab No. 1225078 **Material Description:** White Linoleum
Client No.: 90 **Location:** Upper Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Approved By: Frank E. Ehrenfeld, III
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Report Date: 02/16/2001
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Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225079 **Material Description:** White Linoleum
Client No.: 91 **Location:** Tan Mastic Upper Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80

Lab No. 1225079 **Material Description:** White Linoleum
Client No.: 91 **Location:** Tan Mastic Upper Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Tan Mastic
From Above

Lab No. 1225080 **Material Description:** Grey Floor Tile
Client No.: 92 **Location:** Stairwell-South Upper Level Landing

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225081 **Material Description:** Tan Jt Compound
Client No.: 93 **Location:** Stairwell-South Upper Level Landing

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.3	Chrysotile	None Detected	None Detected	PC 98.7

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

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Date:

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Report Date: 02/16/2001
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Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225082 **Material Description:** Red Floor Mat'l
Client No.: 94 **Location:** Kitchen

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225083 **Material Description:** Red Floor Mat'l
Client No.: 95 **Location:** Kitchen

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225084 **Material Description:** Red Floor Mat'l
Client No.: 96 **Location:** Kitchen

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225085 **Material Description:** Tan Mastic
Client No.: 97 **Location:** Middle Level West Corr Behind Kitchen

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

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Date:

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Report Date: 02/16/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225086 **Material Description:** Dk Grey Caulk
Client No.: 98 **Location:** E Side Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Wollastonite	100

Lab No. 1225087 **Material Description:** Dk Grey Caulk
Client No.: 99 **Location:** E Side Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Wollastonite	100

Lab No. 1225088 **Material Description:** Dk Grey Caulk
Client No.: 100 **Location:** E Side Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Wollastonite	100

Lab No. 1225089 **Material Description:** White/Grey Plaster
Client No.: 101 **Location:** Ext Canopy Outside Window; E Side

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Date:

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CERTIFICATE OF ANALYSIS

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PO Box 564
Branford CT 06405

Report Date: 02/16/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225090 **Material Description:** White/Grey Plaster
Client No.: 102 **Location:** Ext Canopy Outside Window; E Side

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225091 **Material Description:** White/Grey Plaster
Client No.: 103 **Location:** Ext Canopy Outside Window; E Side

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

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972/9

- Chain of Custody -

Client: Delta Environmental Services
P.O. Box 564
Branford, CT 06405

Project Name: [illegible]
Project No.: [illegible]

Phone: (203) 481-7668
FAX: (203) 488-8164

Contact: [illegible]
Pager:

Special Instructions:

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[✓] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400	[✓] PLM : Bulk Asbestos EPA 600	[ ] TEM : AHERA
[ ] PCM : OSHA	[ ] PLM : Point Counting 198.1	[ ] TEM : NIOSH 7402
[ ] PCM : Other_____	[ ] PLM : NOB via 198.1 (PLM only)	[ ] TEM : EPA Level II
	[ ] If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements ** (**call to confirm TAT!)	[ ] TEM : Microvac Dust
[ ] AAS : NIOSH 7082 (Air)		[ ] TEM : Asbestos in Water
[ ] AAS : Lead in Drinking Water		[ ] TEM : Bulk Analysis
[ ] AAS : Lead in Paint ASTM D3335-85a		[ ] TEM : NOB 198.4
[ ] AAS : Lead Dust/Wipe		[ ] TEM : Other_____
[ ] AAS : Other Metals / Soil_____		[ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ (date / time) Verbals: _____ (date / time)

[ ] 10 Day [ ] 5 Day [ ] 72 hour [✓] 48 hour [ ] 24 hour [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): [illegible] (start) - [illegible] (end) IATL#(s): _____ (start) - _____ (end) Total: ___

Chain of Custody:

Relinquished:	[illegible]	Date: [illegible]	Time: [illegible]
Received:		Date:	Time:
Sample Log-in:	[illegible]	Date:	Time:
Sample Prep:		Date:	Time:
Analyzed:	[illegible] 2/15/01	Date:	Time:
QA/QC Review:	[illegible]	Date: [illegible]	Time:

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-14E-24

Durant Building

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
41	Beige 12" Floor Tile				1225029		Asbestos PLM EPA 600 PLEASE USE POSITIVE STOP	Closet Middle Level				
42	↓				1225030		↓	↓				
43	↓				1225031		↓	↓				
44	Mastic From Beige 12" Floor Tile				1225032		PLEASE USE POSITIVE STOP	↓				
45	↓				1225033		↓	↓				
46	↓				1225034		↓	↓				
47	Joint Compound				1225035		ANALYZE ALL	Middle Level Classroom				
48	↓				1225036		↓	↓				
49	↓				1225037		↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P Melatto	Delta			1		James P Melatto			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Durant Building

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
50	White 12" Floor Tile				12	25038	Asbestos PLM EPA 600 PLEASE USE POSITIVE STOP	Middle Level Dormitory Area Corridor East Side				
51	↓				12	25039	↓	↓				
52	↓				12	25040	↓	↓				
53	Mastic from White 12" Floor Tile				12	25041		↓				
54	Purple 12" Floor Tile				12	25042	PLEASE USE POSITIVE STOP	Middle Level Dormitory Area Bedroom				
55	↓				12	25043	↓	↓				
56	↓				12	25044	↓	↓				
57	Blue-Green 12" Floor Tile				12	25045	PLEASE USE POSITIVE STOP	Middle Level Dormitory Area Corridor				
58	↓				12	25046	↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P. McLaughlin	Delta			1		James P. McLaughlin			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Durant Building

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
59	Blue-Green 12" Floor Tile				1225047		Asbestos PLM EPA 600	Middle Level Dormitory Area Corridor				
60	Red/Maroon 12" Floor Tile				1225048		PLEASE USE POSITIVE STOP					
61					1225049							
62					1225050							
63	Pink 12" Floor Tile				1225051		PLEASE USE POSITIVE STOP	Middle Level Dormitory Area Bedroom				
64					1225052							
65					1225053							
66	Mastic/Floor Levelmatic				1225054							
67	Joint Compound				1225055							

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P. Melatts	Delta			1		James P. Melatts			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center
PROJECT LOCATION: Mystic, CT Durant Building
PROJECT NUMBER: D97-146-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
US 68	Linoleum				1225056		Asbestos PLM EPA 600	Student Dining Area				
69	Valve Fitting Cement				1225057		PLEASE USE POSITIVE STOP	Lower level Mechanical Room 101				
70	↓				1225058		↓	↓				
71	↓				1225059		↓	↓				
72	Heat Exchanger Insulation				1225060		PLEASE USE POSITIVE STOP	↓				
73	↓				1225061		↓	↓				
74	↓				1225062		↓	↓				
75	Cloth Wrap in Heat Exchanger				1225063		PLEASE USE POSITIVE STOP	↓				
76	↓				1225064		↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P. McLaughlin	Delta			1		James P. McLaughlin			
ADDITIONAL COMMENTS:				2					
				3					
				4					

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Durant Building

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
77	Cloth wrap on Heat Exchanger				12	25065	Asbestos PLM EPA 600	Lower level Mechanical Room 101				
78	Spray-on Fireproofing				12	25066	PLEASE USE POSITIVE STOP	↓				
79	↓				12	25067	↓	↓				
80	Spray-on Fireproofing				12	25068		Lower Level Switchgear Room 100				
81	Air Filter Insulation				12	25069	PLEASE USE POSITIVE STOP	Lower Level Mechanical Room 101				
82	↓				12	25070	↓	↓				
83	↓				12	25071	↓	↓				
84	Joint Compound				12	25072		Gym Wall				
85	Brown 12" Floor Tile				12	25073		Far Room off Intermediate Landing Between middle/upper				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P. Melatto	Delta			1		James P. Melatto			
ADDITIONAL COMMENTS:				2					
				3					
				4					

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
86	Brown 12" Floor Tile				12	25074	Asbestos PLM EPA 600 PLEASE USE POSITIVE STOP	Fan Room off Intermediate Landing Between Middle/Upper				
87	↓				12	25075	↓	↓				
88	Spray-on Fireproofing				12	25076		↓				
89	White Linoleum				12	25077	PLEASE USE POSITIVE STOP	Upper Level				
90	↓				12	25078	↓	↓				
91	↓				12	25079	↓	↓				
92	Beige 12" Floor Tile				12	25080		Stairwell-South Upper Level Landing				
93	Joint Compound				12	25081		↓				
94	Red Floor Treatment				12	25082		Kitchen				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R. Melanthe	Delta			1		James R. Melanthe			
ADDITIONAL COMMENTS:				2					
				3					
				4					

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
95	Red Floor Treatment				1225083		Asbestos PLM EPA 600 PLEASE USE POSITIVE STOP	Kitchen				
96	↓				1225084		↓	↓				
97	Carpet Adhesive				1225085			Middle Level West Corridor Behind Kitchen				
98	Window Caulk				1225086		PLEASE USE POSITIVE STOP	Middle Level East Side				
99	↓				1225087		↓	↓				
100	↓				1225088		↓	↓				
101	Plaster				1225089		PLEASE USE POSITIVE STOP	Exterior Canopy outside window East Side				
102	↓				1225090		↓	↓				
103	↓				1225091		↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P. Melanthe	Delta			1		James P. Melanthe			
ADDITIONAL COMMENTS:				2					
				3					
				4					

APPENDIX C

Laboratory and Inspector Accreditations

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT - INSP/MGMT PLANNER

LICENSE NO.
000044
CURRENT THROUGH
02/28/01
VALIDATION NO.
00-321886

JAMES P. MCCARTHY

SIGNATURE

COMMISSIONER DEPT. OF PUBLIC HEALTH

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

CHEMSCOPE, INC.
NORTH HAVEN, CT

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

BULK ASBESTOS FIBER ANALYSIS

March 31, 2002
Effective through

David F. Alderman
For the National Institute of Standards and Technology

NVLAP Lab Code: 101061-0

NVLAP-01C (11-95)

APPENDIX D

Building Diagrams

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
DURANT BUILDING (DPW Building 16958)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: November 2001

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ENVIRONMENTAL
SERVICES®, INC.

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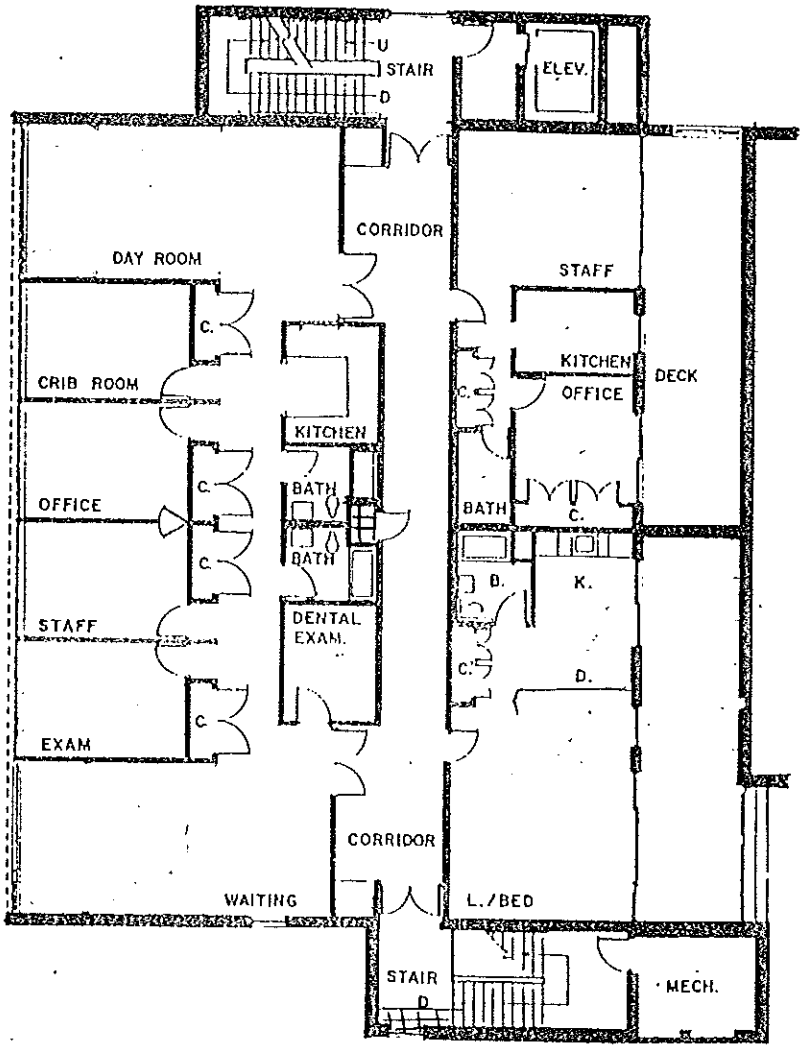
P.O. Box 564, Branford, CT
(203) 481-7668



UPPER LEVEL FLOOR PLAN

0 2 5 10

AREA CONTAINS ASBESTOS FLOOR TILE

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
DURANT BUILDING (DPW Building 16958)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: November 2001

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ENVIRONMENTAL
SERVICES®, INC.

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P.O. Box 564, Branford, CT
(203) 481-7668

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
DURANT BUILDING (DPW Building 16958)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: November 2001

DELTA ENVIRONMENTAL SERVICES®, INC.

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(203) 481-7668

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3.1	Asbestos Sampling Procedures	1
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4.0	Discussion and Recommendations	3
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3-2 Asbestos-Containing Material

3-3 Non-Asbestos-Containing Material

5-1 Asbestos Abatement Cost Estimate

APPENDICES

APPENDIX A - Inventory of Identified Asbestos-Containing Material

APPENDIX B - Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

APPENDIX C - Laboratory and Inspector Accreditations

APPENDIX D - Building Diagrams

1.0 INTRODUCTION

This report summarizes the results of an asbestos and lead inspection conducted by DELTA Environmental Services, Inc. (DELTA) for the Durant Building (DPW Building Number 16958) at the Mystic Education Center facility at 290 Oral School Road in Mystic, Connecticut. The project consisted of: review of available building records; physical inspection of the building to determine the quantities and locations of asbestos-containing materials (ACM); and bulk sampling of suspected asbestos-containing materials (ACM).

2.0 BUILDING DESCRIPTION

Mystic Education Center is a seven-building campus-type facility. The property consists of approximately 122 acres and 250,000 square feet of building floor space. The Durant Building is a two-story (with partial upper level) masonry structure. The building covers approximately 40,000 square feet and was constructed in 1974. The building consists of: a gymnasium, classrooms, storage areas, and mechanical rooms in the basement ("lower level"); classrooms, offices, a kitchen and a cafeteria on the first floor ("middle level"); and dormitory areas on the second floor ("upper level"). The building is heated via a forced hot air system with some baseboard electric units.

Many of the rooms in the building do not have assigned room numbers. Building diagrams are included in Appendix E.

3.0 ASBESTOS SURVEY

3.1 Asbestos Sampling Procedures

Bulk samples of suspected ACM were collected by James P. McCarthy, P.E., of DELTA, a Connecticut Department of Public Health licensed inspector. Samples were collected using a clean knife or other appropriate tool after first wetting the material to be sampled to limit fiber release.

Samples were placed in dedicated sealable plastic bags and promptly transmitted to the analytical laboratory using strict chain of custody procedures. Sampling was performed in accordance with Environmental Protection Agency protocols, which require a minimum of three negative results in order to establish that a material does not contain asbestos.

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
1	1195621	Ceiling Tile 1' X 2'	Lower Level Corridor Near Room 138	NAD
2	1195622	Ceiling Tile 1' X 2'	Lower Level Corridor Near Room 138	NAD
3	1195623	Ceiling Tile 1' X 2'	Lower Level Corridor Near Room 112	NAD
4	1195624	Joint Compound (Covered by Wallpaper)	Lower Level Corridor Near 115	2.5% Chrysotile (Point Count)
5	1195625	Joint Compound (Covered by Wallpaper)	Lower Level Office 136	1.8% Chrysotile (Point Count)
6	1195626	Brown 12" Floor Tile Mastic From Above	Lower Level Stairwell Landing	3.5% Chrysotile (Point Count) 7.5% Chrysotile (Point Count)
7	1195627	Brown 12" Floor Tile	Lower Level Stairwell Landing	Not Analyzed*
8	1195628	Brown 12" Floor Tile	Lower Level Stairwell Landing	Not Analyzed*
9	1200093	Sheetrock	Lower Level Room 142	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
10	1200094	Brown 12" Floor Tile	Lower Level Room 140	1.5% Chrysotile
11	1200095	Brown 12" Floor Tile	Lower Level Room 140	Not Analyzed*
12	1200096	Brown 12" Floor Tile	Lower Level Room 140	Not Analyzed*
13	1200097	Mastic From Brown 12" Floor Tile	Lower Level Room 140	5.5% Chrysotile
14	1200098	Mastic From Brown 12" Floor Tile	Lower Level Room 140	Not Analyzed*
15	1200099	Mastic From Brown 12" Floor Tile	Lower Level Room 140	Not Analyzed*
16	1200100	Carpet Adhesive	Lower Level Room 148	NAD
17	1200101	Mastic From Wood Tile Flooring	Lower Level Media Center	NAD
18	1200102	Mastic From Wood Tile Flooring	Lower Level Media Center	NAD
19	1200103	Mastic From Wood Tile Flooring	Lower Level Media Center	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
20	1200104	Cloth Wrap on Pipe Fitting	Lower Level East Side Fan Room	40% Chrysotile
21	1200105	Cloth Wrap on Pipe Fitting	Lower Level East Side Fan Room	Not Analyzed*
22	1200106	Cloth Wrap on Pipe Fitting	Lower Level East Side Fan Room	Not Analyzed*
23	1200107	Tape on Pipe Fitting	Lower Level East Side Fan Room	NAD
24	1200108	Tape on Pipe Fitting	Lower Level East Side Fan Room	NAD
25	1200109	Tape on Pipe Fitting	Lower Level East Side Fan Room	NAD
26	1200110	Baseboard Molding Adhesive	Lower Level East Side Fan Room	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
27	1200111	Baseboard Molding Adhesive	Lower Level East Side Fan Room	NAD
28	1200112	Baseboard Molding Adhesive	Lower Level East Side Fan Room	NAD
29	1200113	Sheetrock	Lower Level East Side Fan Room	NAD
30	1200114	Joint Compound	Lower Level East Side Fan Room	0.80% Chrysotile (Point Count)
31	1200115	Carpet Adhesive	Lower Level East Lobby	NAD
32	1200116	Carpet Adhesive	Lower Level East Lobby	NAD
33	1200117	Ceiling Tile 1' X 1' Brown Fibrous with "Pinhole Pattern" Sheet Metal Facing	Middle Level North Bathroom	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
34	1200118	Ceiling Tile 1' X 1' Brown Fibrous with "Pinhole Pattern" Sheet Metal Facing	Middle Level North Bathroom	NAD
35	1200119	Ceiling Tile 1' X 1' Brown Fibrous with "Pinhole Pattern" Sheet Metal Facing	Middle Level North Bathroom	NAD
36	1200120	Linoleum Mastic From Above	Middle Level West Lobby	NAD NAD
37	1200121	Linoleum Mastic From Above	Middle Level West Lobby	NAD NAD
38	1200122	Linoleum Mastic From Above	Middle Level West Lobby	NAD NAD
39	1200123	Sheetrock	Middle Level East Classroom	NAD
40	1200124	Wallpaper	Middle Level East Classroom	NAD
41	1225029	Beige 12" Floor Tile	Closet Middle Level	2.8% Chrysotile (Point Count)

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
42	1225030	Beige 12" Floor Tile	Closet Middle Level	Not Analyzed*
43	1225031	Beige 12" Floor Tile	Closet Middle Level	Not Analyzed*
44	1225032	Mastic From Beige 12" Floor Tile	Closet Middle Level	10% Chrysotile
45	1225033	Mastic From Beige 12" Floor Tile	Closet Middle Level	Not Analyzed*
46	1225034	Mastic From Beige 12" Floor Tile	Closet Middle Level	Not Analyzed*
47	1225035	Joint Compound	Middle Level East Corridor	1.8% Chrysotile (Point Count)
48	1225036	Joint Compound	Middle Level East Corridor	Not Analyzed*
49	1225037	Joint Compound	Middle Level Southeast Classroom	Not Analyzed*
50	1225038	White 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD
51	1225039	White 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
52	1225040	White 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD
53	1225041	Mastic From White 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD
54	1225042	Purple 12" Floor Tile	Middle Level Dormitory Area Bedroom	NAD
55	1225043	Purple 12" Floor Tile	Middle Level Dormitory Area Bedroom	NAD
56	1225044	Purple 12" Floor Tile	Middle Level Dormitory Area Bedroom	NAD
57	1225045	Blue-Green 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD
58	1225046	Blue-Green 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD
59	1225047	Blue-Green 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
60	1225048	Red-Maroon 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD
61	1225049	Red-Maroon 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD
62	1225050	Red-Maroon 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD
63	1225051	Pink 12" Floor Tile	Middle Level Dormitory Area Bedroom	NAD
64	1225052	Pink 12" Floor Tile	Middle Level Dormitory Area Bedroom	NAD
65	1225053	Pink 12" Floor Tile	Middle Level Dormitory Area Bedroom	NAD
66	1225054	Mastic/Floor Levelastic	Middle Level Dormitory Area Bedroom	NAD
67	1225055	Joint Compound	Middle Level Dormitory Area Bedroom	1.3% Chrysotile (Point Count)
68	1225056	Linoleum	Middle Level Student Dining Area	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
69	1225057	Valve Tipping Cement	Lower Level Mechanical Room 101	NAD
70	1225058	Valve Tipping Cement	Lower Level Mechanical Room 101	NAD
71	1225059	Valve Tipping Cement	Lower Level Mechanical Room 101	NAD
72	1225060	Heat Exchanger Insulation	Lower Level Mechanical Room 101	20% Chrysotile
73	1225061	Heat Exchanger Insulation	Lower Level Mechanical Room 101	Not Analyzed*
74	1225062	Heat Exchanger Insulation	Lower Level Mechanical Room 101	Not Analyzed*
75	1225063	Cloth Wrap on Heat Exchanger	Lower Level Mechanical Room 101	60% Chrysotile
76	1225064	Cloth Wrap on Heat Exchanger	Lower Level Mechanical Room 101	Not Analyzed*
77	1225065	Cloth Wrap on Heat Exchanger	Lower Level Mechanical Room 101	Not Analyzed*
78	1225066	Spray-on Fireproofing	Lower Level Mechanical Room 101	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
79	1225067	Spray-on Fireproofing	Lower Level Mechanical Room 101	NAD
80	1225068	Spray-on Fireproofing	Lower Level Switchgear Room 100	NAD
81	1225069	Pipe Fitting Insulation	Lower Level Mechanical Room 101	NAD
82	1225070	Pipe Fitting Insulation	Lower Level Mechanical Room 101	NAD
83	1225071	Pipe Fitting Insulation	Lower Level Mechganical Room 101	NAD
84	1225072	Joint Compound	Gym Wall Northeast Corner	1.5% Chrysotile (Point Count)
85	1225073	Brown 12" Floor Tile Mastic	Fan Room off Intermediate Landing Between Middle and Upper Levels	3.0% Chrysotile (Point Count) 10% Chrysotile
86	1225074	Brown 12" Floor Tile	Fan Room off Intermediate Landing Between Middle and Upper Levels	Not Analyzed*

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
87	1225075	Brown 12" Floor Tile	Fan Room off Intermediate Landing Between Middle and Upper Levels	Not Analyzed*
88	1225076	Spray-on Fireproofing	Fan Room off Intermediate Landing Between Middle and Upper Levels	NAD
89	1225077	White Linoleum	Upper Level Kitchen	NAD
90	1225078	White Linoleum	Upper Level Kitchen	NAD
91	1225079	White Linoleum Mastic	Upper Level Kitchen	NAD NAD
92	1225080	Beige 12" Floor Tile	South Stairwell Upper Level Landing	NAD
93	1225081	Joint Compound	South Stairwell Upper Level Landing	1.3% Chrysotile (Point Count)
94	1225082	Red Floor Treatment	Middle Level Kitchen	NAD
95	1225083	Red Floor Treatment	Middle Level Kitchen	NAD
96	1225084	Red Floor Treatment	Middle Level Kitchen	NAD

TABLE 3-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
97	1225085	Carpet Adhesive	Middle Level West Corridor Near Kitchen	NAD
98	1225086	Window Caulk	Middle Level East Side	NAD
99	1225087	Window Caulk	Middle Level East Side	NAD
100	1225088	Window Caulk	Middle Level East Side	NAD
101	1225089	Plaster	Exterior Canopy Overhang Outside Window East Side	NAD
102	1225090	Plaster	Exterior Canopy Overhang Outside Window East Side	NAD
103	1225091	Plaster	Exterior Canopy Overhang Outside Window East Side	NAD

NOTE: "NAD" INDICATES NO ASBESTOS DETECTED

* EPA protocols consider one positive result as confirmation that a material contains asbestos. If the first sample of a material is found to contain asbestos, no further confirmation is necessary and any additional samples are therefore not analyzed.

3.2 Asbestos Analytical Procedures

Analysis was performed by International Asbestos Testing Laboratories, Inc. (IATL), Mt. Laurel, New Jersey, a National Institute of Standards and Technology accredited laboratory. Analysis was performed using Polarized Light Microscopy (PLM) Method EPA 600. Point counting was used to quantify asbestos content for all samples found to contain less than ten percent asbestos.

3.3 Asbestos Analytical Results

The results of recent bulk sampling performed by DELTA are summarized in Table 3-1. Laboratory data sheets are included in Appendix B.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: brown 12" floor tile and mastic; beige 12" floor tile and mastic; cloth wrap on pipe fittings, piping and a heat exchanger; heat exchanger insulation; and sheetrock joint compound.

The various types of vinyl floor tile in the building were found to contain between 1.5 and 3.5% chrysotile asbestos. The tile mastic was found to contain between 5.5 and 10% chrysotile. The floor tile is generally in good condition. Though the tile is unlikely to present a hazard unless it is actively disturbed, any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile and mastic as asbestos.

A cloth wrap material present in building mechanical rooms was found to contain 40-60% chrysotile asbestos. The wrap material was found over both asbestos-containing and non-asbestos insulation. Heat exchanger insulation in the main mechanical room (Room 101) was found to contain 20% chrysotile asbestos.

Seven of eight samples of sheetrock joint compound in the building were found to contain greater than one percent chrysotile asbestos (one sample contained 0.8% asbestos). The concentrations in the seven samples ranged from 1.3 to 2.5%, as determined by the "point counting" method of quantification.

TABLE 3-2: ASBESTOS-CONTAINING MATERIAL
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

HOMOGENEOUS AREA NUMBER	MATERIAL DESCRIPTION	LOCATION	ASBESTOS TYPE AND CONTENT (%)
1	Sheetrock Joint Compound	Throughout	2.5% Chrysotile
2	Brown 12" Floor Tile	Closets and Isolated Areas Throughout	3.5% Chrysotile
3	Mastic From Brown 12" Floor Tile	Closets and Isolated Areas Throughout	7.5% Chrysotile
4	Beige 12" Floor Tile	Middle Level East Side Closets	2.8% Chrysotile
5	Mastic From Beige 12" Floor Tile		10% Chrysotile
6	Cloth Wrap on Pipe Fittings, Piping and Heat Exchanger	Lower Level Mechanical Room 101 and East Fan Room	60% Chrysotile
7	Heat Exchanger Insulation	Lower Level Mechanical Room 101	20% Chrysotile

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

HOMOGENEOUS AREA NUMBER	MATERIAL DESCRIPTION	LOCATION	ASBESTOS TYPE AND CONTENT (%)
8	Ceiling Tile - 1' X 2'	Throughout	NAD
9	Sheetrock	Throughout	NAD
10	Carpet Adhesive	Throughout	NAD
11	Mastic From Wood Tile Flooring	Lower Level Media Center	NAD
12	Tape on Pipe Fittings	Lower Level East Fan Room	NAD
13	Baseboard Molding Adhesive	Throughout	NAD
14	Ceiling Tile - 1' X 1'	Middle Level Bathrooms	NAD
15	Tan Linoleum	Middle Level Lobbies and Dining Area	NAD
16	Mastic From Tan Linoleum	Middle Level Lobbies and Dining Area	NAD
17	Wallpaper	Throughout	NAD
18	White 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL
DURANT BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

HOMOGENEOUS AREA NUMBER	MATERIAL DESCRIPTION	LOCATION	ASBESTOS TYPE AND CONTENT (%)
19	Mastic From White 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD
20	Purple 12" Floor Tile	Middle Level Dormitory Area Bedrooms	NAD
21	Mastic From Purple 12" Floor Tile	Middle Level Dormitory Area Bedrooms	NAD
22	Blue-Green 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD
23	Mastic From Blue-Green 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD
24	Red-Maroon 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD
25	Mastic From Red-Maroon 12" Floor Tile	Middle Level Dormitory Area West Corridor	NAD

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL DURANT BUILDING MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
HOMOGENEOUS AREA NUMBER	**MATERIAL DESCRIPTION**	**LOCATION**	**ASBESTOS TYPE AND CONTENT (%)**
26	Pink 12" Floor Tile	Middle Level Dormitory Area Bedrooms	NAD
27	Mastic From Pink 12" Floor Tile	Middle Level Dormitory Area Bedrooms	NAD
28	Valve Tipping Cement	Lower Level Mechanical Room 101	NAD
29	Pipe Fitting Insulation	Lower Level Mechanical Room 101	NAD (Cloth Wrap Over Fittings is ACM)
30	Spray-on Fireproofing	Lower Level Mechanical Room 101 and Fan Room off Intermediate Landing Between Middle and Upper Levels	NAD
31	White Linoleum	Upper Level Kitchen	NAD
32	Mastic From White Linoleum	Upper Level Kitchen	NAD
33	Red Epoxy Floor Treatment	Middle Level Kitchen	NAD

TABLE 3-3: NON-ASBESTOS-CONTAINING MATERIAL DURANT BUILDING MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
HOMOGENEOUS AREA NUMBER	**MATERIAL DESCRIPTION**	**LOCATION**	**ASBESTOS TYPE AND CONTENT (%)**
34	Plaster	Exterior Canopy Overhang	NAD
35	Window Caulk	Exterior Windows Throughout	NAD
NOTE: NAD indicates "No Asbestos Detected"			

Based on the sampling data, all of the joint compound in the building (samples from all three levels were found to contain asbestos) must be considered an asbestos-containing material. Much of the sheetrock in the building is covered with wallpaper. The sheetrock throughout much of the basement shows signs of mold and mildew. The basement is currently not in use, reportedly due to the severe mold and mildew problem. The joint compound is unlikely to present an asbestos hazard unless it is actively disturbed. However, the presence of asbestos in the joint compound will have a significant impact on any future building renovation activities necessary for reoccupancy of the basement. Section 5.0 of this report provides a cost estimate for abatement which may be useful in planning any renovation work.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

Materials found not to contain asbestos include: spray-on fireproofing in the mechanical rooms; pipe fitting insulation (the outer cloth wrap on the fittings contains asbestos) in the main mechanical room (Room 101); and exterior window caulking material.

4.0. DISCUSSION AND RECOMMENDATIONS

The Durant Building is a two-story (with partial upper level) masonry structure. The building covers approximately 40,000 square feet and was constructed in 1974. The building consists of: a gymnasium, classrooms, storage areas, and mechanical rooms in the basement ("lower level"); classrooms, offices, a kitchen and a cafeteria on the first floor ("middle level"); and dormitory areas on the second floor ("upper level"). The building is heated via a forced hot air system with some baseboard electric units.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: brown 12" floor tile and mastic; beige 12" floor tile and mastic; cloth wrap on pipe fittings, piping and a heat exchanger; heat exchanger insulation; and sheetrock joint compound.

The various types of vinyl floor tile in the building were found to contain between 1.5 and 3.5% chrysotile asbestos. The tile mastic was found to contain between 5.5 and 10% chrysotile. The floor tile is generally in good condition. Though the tile is unlikely to present a hazard unless it is actively disturbed, any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile and mastic as asbestos.

A cloth wrap material present in building mechanical rooms was found to contain 40-60% chrysotile asbestos. The wrap material was found over both asbestos-containing and non-asbestos insulation. Heat exchanger insulation in the main mechanical room (Room 101) was found to contain 20% chrysotile asbestos.

Seven of eight samples of sheetrock joint compound in the building were found to contain greater than one percent chrysotile asbestos (one sample contained 0.8% asbestos). The concentrations in the seven samples ranged from 1.3 to 2.5%, as determined by the "point counting" method of quantification.

Based on the sampling data, all of the joint compound in the building must be considered an asbestos-containing material. The sheetrock throughout much of the basement shows signs of mold and mildew. The basement is currently not in use, reportedly due to the severe mold and mildew problem. The joint compound is unlikely to present an asbestos hazard unless it is actively disturbed. However, the presence of asbestos in the joint compound will have a significant impact on any future building renovation activities necessary for reoccupancy of the basement.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

5.0 ESTIMATED COST FOR ASBESTOS ABATEMENT

The estimated cost for asbestos abatement shown in Table 5-1 is provided solely for establishing removal and replacement costs for the DPW asbestos inventory database. The abatement estimate utilizes fixed unit costs for specific item descriptions. Abatement projects are to be estimated with respect to individual project requirements or conditions.

TABLE 5-1

DURANT BUILDING
MYSTIC EDUCATION CENTER
ASBESTOS ABATEMENT COST ESTIMATE

Item Description	Quantity	Unit	Unit Cost	Subtotal Cost
REMOVAL				
Thermal System Insulation	133	SF	$10.00	$1,330
Thermal System Insulation	20	LF	$15.00	$0,300
Misc. Material	83,470	SF	$5.00	$417,350
SUB TOTAL REMOVAL				$418,980
REPLACEMENT				
Thermal System Insulation	133	SF	$10.00	$1,330
Thermal System Insulation	20	LF	$15.00	$0,300
Surfacing Material		SF	$10.00	$0,00
Miscellaneous Material		LF	N/A	
Miscellaneous Material		SF	N/A	
SUB TOTAL REPLACEMENT				$1,630
Construction				$420,610
Consultant (20%)				$84,122
Contingency (10%)				$50,473
TOTAL				$555,205
ABATEMENT ESTIMATE				**$555,000**

The estimated cost for abatement of the building (including thermal systems reinsulation) is $555,000. It should be noted that the cost estimate does not include removal of roofing materials. The cost estimate utilizes standard unit prices for removal of different types of asbestos-containing materials. When an actual asbestos abatement project is planned, a more precise estimate can be developed based on the specific work scope.

6.0. LIMITATIONS

The survey has the following limitations:

- DELTA's survey included an evaluation for the presence of asbestos-containing insulation on electrical equipment in the building. The inspection included building wiring, whips and fixtures. No suspect insulation was found. The inspection was designed to cover a representative portion of the building, since it was not feasible to examine all fixtures, junction boxes, etc.

- The survey did not utilize "destructive" sampling methods, and therefore may not have identified all of the asbestos-containing materials in the building. Specifically, the inspection did not include areas enclosed by walls or ceilings, unless these spaces could be accessed without damage.

- The survey did not include destructive sampling of furnishings such as chalkboards, corkboards, fire doors and benchtops.

- The survey attempted to access and identify asbestos-containing materials associated with HVAC and mechanical systems. However, such systems were not dismantled during the inspection. It is possible that boilers, furnaces, fan units and other devices may contain gaskets and other interior asbestos material which can only be accessed through dismantling them. Care should be taken to avoid the accidental disturbance of asbestos during maintenance or repair work on such devices.

APPENDIX A

Inventory of Identified Asbestos-Containing Material

DURANT BUILDING
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

4/9/01

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
LOWER LEVEL													
	GYM OFFICE AREA	1	SHEETROCK JOINT COMPOUND	2%			2,500						
	MEDIA CENTER	1	SHEETROCK JOINT COMPOUND	2%			1,200						
	GYM	1	SHEETROCK JOINT COMPOUND	2%			2,500						
CORRIDORS		1	SHEETROCK JOINT COMPOUND	2%			6,100						
CLASSROOM 1	CLOSET	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	40								
CLASSROOM 1		1	SHEETROCK JOINT COMPOUND	2%			1,600						
CLASSROOM 2	CLOSET	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	40								
CLASSROOM 2		1	SHEETROCK JOINT COMPOUND	2%			1,600						
CLASSROOM 3	CLOSET	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	40								
CLASSROOM 3		1	SHEETROCK JOINT COMPOUND	2%			1,600						
CLASSROOM 4	CLOSET	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	40								
CLASSROOM 4		1	SHEETROCK JOINT COMPOUND	2%			1,600						
CLASSROOM 5	CLOSET	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	40								
CLASSROOM 5		1	SHEETROCK JOINT COMPOUND	2%			1,600						
CLASSROOM 6	CLOSET	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	40								
CLASSROOM 6		1	SHEETROCK JOINT COMPOUND	2%			1,600						
CLASSROOM 7	CLOSET	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	40								
CLASSROOM 7		1	SHEETROCK JOINT COMPOUND	2%			1,600						
CLASSROOM 8	CLOSET	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	70								
CLASSROOM 8		1	SHEETROCK JOINT COMPOUND	2%			1,600						
CUST. CLOSET	NEAR SE ENTR.	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	200								
FAN ROOM	SE MECH. RM.	6	CLOTH PIPE FITTING WRAP	40%					3				ASB. WRAP OVER FBGL. FITTINGS
FAN ROOM	SE MECH. RM.	1	SHEETROCK JOINT COMPOUND	2%			140						
100	SWITCHGEAR	1	SHEETROCK JOINT COMPOUND	2%			400						
101	MECH. EQUIPMENT	6	CLOTH PIPE WRAP	60%				20					ASB. WRAP OVER FBGL. PIPING
101	MECH. EQUIPMENT	6, 7	CLOTH WRAP/BLOCK INSUL.	60% / 20%							30		VERTICAL HEAT EXCHGR.
101	MECH. EQUIPMENT	6, 7	CLOTH WRAP/BLOCK INSUL.	60% / 20%							70		HORIZ. HEAT EXCHGR.
101	MECH. EQUIPMENT	6, 7	CLOTH WRAP/BLOCK INSUL.	60% / 20%							30		EXP. DRUM ABOVE VAC. PUMP
101	MECH. EQUIPMENT	1	SHEETROCK JOINT COMPOUND	2%			400						
102	ELEV. MOTOR RM.	1	SHEETROCK JOINT COMPOUND	2%		80							
NW CORRIDOR	NEAR RM. 103-104	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	250								
107	STORAGE	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	300								
107	STORAGE	1	SHEETROCK JOINT COMPOUND	2%			600						
109	LAUNDRY	1	SHEETROCK JOINT COMPOUND	2%			400						

APPENDIX A

DURANT BUILDING
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
MIDDLE LEVEL													
EAST WING	CLASSROOMS	1	SHEETROCK JOINT COMPOUND	2%			13,000						
NORTH WING	DORMITORY	1	SHEETROCK JOINT COMPOUND	2%			13,000						
WEST WING	OFFICES/KITCHEN	1	SHEETROCK JOINT COMPOUND	2%			5,500						
	CORRIDORS/LOBBIES	1	SHEETROCK JOINT COMPOUND	2%			7,800						
VESTIBULE	NEAR SE ENTRANCE	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	60								
CLOSET	EAST WING	4, 5	12" BEIGE FLOOR TILE/MASTIC	2.8% / 10%	15								
CLOSET	EAST WING	4, 5	12" BEIGE FLOOR TILE/MASTIC	2.8% / 10%	15								
CLOSET	EAST WING	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	50								CLEANING CLOSET
CLOSET	EAST WING	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	70								CLEANING CLOSET
CLOSET	NORTH WING	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	50								CLEANING CLOSET
CLOSET	NORTH WING	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	70								CLEANING CLOSET
VESTIBULE	NEAR NW ENTR.	4, 5	12" BEIGE FLOOR TILE/MASTIC	2.8% / 10%	10								
UPPER LEVEL													
CLOSET	CENTRAL CORRIDOR	4, 5	12" BEIGE FLOOR TILE/MASTIC	2.8% / 10%	20								
UPPER LEVEL	THROUGHOUT	1	SHEETROCK JOINT COMPOUND	2%			13,000						
STAIRWELLS													
SOUTHEAST	TREADS AND LANDINGS	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	400								
SOUTHWEST	TREADS AND LANDINGS	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	800								
SOUTHWEST	THIRD FL. LANDING	4, 5	12" BEIGE FLOOR TILE/MASTIC	2.8% / 10%	10								
NORTHWEST	TREADS AND LANDINGS	2, 3	12" BROWN FLOOR TILE/MASTIC	3.5% / 10%	800								

APPENDIX B

Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/20/2000
Project: Mystic Education Center, 12-12-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1195621 **Material Description:** White/TanCeilingTile
Client No.: 1D **Location:** Corridor Near 138

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	85	Mineral Wool	15

Lab No. 1195622 **Material Description:** White/TanCeilingTile
Client No.: 2D **Location:** Corridor Near 138

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	85	Mineral Wool	15

Lab No. 1195623 **Material Description:** White/TanCeilingTile
Client No.: 3D **Location:** Corridor Near 112

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	85	Cellulose	15

Lab No. 1195624 **Material Description:** Lt.Yellow Jt. Comp.
Client No.: 4D **Location:** Corridor Near 115

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.5	Chrysotile	None Detected	None Detected	PC 97.5

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By:

Date:

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/20/2000
Project: Mystic Education Center, 12-12-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1195625 **Material Description:** Lt.Yellow Jt. Comp.
Client No.: 5D **Location:** Office 136

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.8	Chrysotile	None Detected	None Detected	PC 98.2

Lab No. 1195626 **Material Description:** Brown Floor Tile
Client No.: 6D **Location:** Black Mastic Stairwell Landing

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.5	Chrysotile	None Detected	None Detected	PC 96.5

Lab No. 1195626 **Material Description:** Brown Floor Tile
Client No.: 6D **Location:** Black Mastic Stairwell Landing

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 7.5	Chrysotile	Trace	Cellulose	PC 92.5
Black Mastic				
From Above				

Lab No. 1195627 **Material Description:** Sample Not Analyzed
Client No.: 7D **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: DEC 19 2000

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/20/2000
Project: Mystic Education Center, 12-12-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1195628
Client No.: 8D

Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 609.231.9449 Fax: 609.231.9818

972/8

- Chain of Custody -

Client: Delta Environmental Services
P.O. Box 564
Branford, CT 06405

Project Name: Mystic Education Center
Project No.: D97-148-24

Phone: (203) 481-7668
FAX: (203) 488-8164

Contact:
Pager:

Special Instructions:

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[✓] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400
[ ] PCM : OSHA
[ ] PCM : Other_____

[ ] AAS : NIOSH 7082 (Air)
[ ] AAS : Lead in Drinking Water
[ ] AAS : Lead in Paint ASTM D3335-85a
[ ] AAS : Lead Dust/Wipe
[ ] AAS : Other Metals / Soil_____

[✓] PLM : Bulk Asbestos EPA 600
[ ] PLM : Point Counting 198.1
[ ] PLM : NOB via 198.1 (PLM only)
[ ] If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements **
(**call to confirm TAT!)

[ ] TEM : AHERA
[ ] TEM : NIOSH 7402
[ ] TEM : EPA Level II
[ ] TEM : Microvac Dust
[ ] TEM : Asbestos in Water
[ ] TEM : Bulk Analysis
[ ] TEM : NOB 198.4
[ ] TEM : Other_____
[ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ date / time Verbals: _____ date / time

[ ] 10 Day [ ] 5 Day [✓] 72 hour [ ] 48 hour [ ] 24 hour [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): 1p - 12p, 1c - 18c, 1d - 8d (start) (end) IATL#(s): _____ (start) - _____ (end) Total: ___

Chain of Custody:

Relinquished:	James R. Mulatz	Date: 12/12/00	Time: 4:20 p.m.
Received:		Date:	Time:
Sample Log-in:	[illegible]	Date: 12/16/00	Time: 0915
Sample Prep:		Date: 12/19/00	Time:
Analyzed:		Date:	Time:
QA/QC Review:	MM [illegible] @ 12/27/00	Date: 14	Time:

Archived/Released:_____ QA/QC InterLAB Use:_____ Date:_____ Time:_____

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Durant Building

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
1d	1'x2' Ceiling Tile						Asbestos PLM EPA 600 1195621 Please use positive stop	Corridor Near 138				
2d	↓						1195622	Corridor Near 138				
3d	↓						1195623 ↓	Corridor Near 112				
4d	Wall Paper/ Joint Compound						1195624	Corridor Near 115				
5d	Wall Paper/ Joint Compound						1195625	Office 136				
6d	Brown 12" Floor Tile						1195626 Please use positive stop	Stairwell Landing				
7d	↓						1195627	↓				
8d	↓						1195628 ↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P. Melatts	Delta			1		James P. Melatts			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/30/2000
Project: MysticEd.Ctr.;Dyrant Bldg.,12-21-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200093 **Material Description:** Tan Sheetrock
Client No.: 9 **Location:** Room 142

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	60

No Joint Compound

Lab No. 1200094 **Material Description:** Brown Floor Tile
Client No.: 10 **Location:** Room 140

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.5	Chrysotile	None Detected	None Detected	PC 98.5

Lab No. 1200095 **Material Description:** Sample Not Analyzed
Client No.: 11 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1200096 **Material Description:** Sample Not Analyzed
Client No.: 12 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Graciela Manjarres N.
Date: DEC 27 2000
Graciela Manjarres N., AIHA-AAR [illegible]

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/28/2000
Project: MysticEd.Ctr.;Dyrant Bldg.,12-21-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200097 **Material Description:** Black Mastic
Client No.: 13 **Location:** Room 140

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 5.5	Chrysotile	None Detected	None Detected	PC 94.5

Lab No. 1200098 **Material Description:** Sample Not Analyzed
Client No.: 14 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1200099 **Material Description:** Sample Not Analyzed
Client No.: 15 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1200100 **Material Description:** Tan Mastic
Client No.: 16 **Location:** Room 148

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Graciela Manjarres N.
Date: DEC 27 2000
Graciela Manjarres N., AIHA-AAR [illegible]

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/28/2000
Project: MysticEd.Ctr.;Dyrant Bldg.,12-21-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200101 **Material Description:** Grey Non Fibrous
Client No.: 17 **Location:** Media Center

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200102 **Material Description:** Tan Non Fibrous
Client No.: 18 **Location:** Media Center

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200103 **Material Description:** Tan Non Fibrous
Client No.: 19 **Location:** Media Center

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200104 **Material Description:** White Fibrous
Client No.: 20 **Location:** Fan Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
40	Chrysotile	50	Synthetic	10

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Graciela Manjarres N.

Date: DEC 27 2000 Graciela Manjarres N., AIHA-AAR

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/28/2000
Project: MysticEd.Ctr.;Dyrant Bldg.,12-21-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200105 **Material Description:** Sample Not Analyzed
Client No.: 21 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1200106 **Material Description:** Sample Not Analyzed
Client No.: 22 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1200107 **Material Description:** Tan Fibrous
Client No.: 23 **Location:** Fan Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	60

Lab No. 1200108 **Material Description:** Tan Fibrous
Client No.: 24 **Location:** Fan Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	60

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Graciela Manjarres N.

Approved By: Frank Ehrenfeld

Date: DEC 27 2000 Graciela Manjarres N., AIHA-AAP

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/28/2000
Project: MysticEd.Ctr.;Dyrant Bldg.,12-21-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200109 **Material Description:** Tan Fibrous
Client No.: 25 **Location:** Fan Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	50	Cellulose	50

Lab No. 1200110 **Material Description:** Brown Non Fibrous
Client No.: 26 **Location:** Fan Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200111 **Material Description:** Brown Non Fibrous
Client No.: 27 **Location:** Fan Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1200112 **Material Description:** Brown Non Fibrous
Client No.: 28 **Location:** Fan Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Graciela Manjarres N.

Date: DEC 27 2000 Graciela Manjarres N., AIHA-AAR [illegible]

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/28/2000
Project: MysticEd.Ctr.;Dyrant Bldg.,12-21-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200113 **Material Description:** Tan Sheetrock
Client No.: 29 **Location:** Fan Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	35	Cellulose	65

Lab No. 1200114 **Material Description:** Tan Joint Compound
Client No.: 30 **Location:** Fan Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 0.80	Chrysotile	None Detected	None Detected	PC 99.2

Lab No. 1200115 **Material Description:** Tan Mastic
Client No.: 31 **Location:** First Floor Lobby

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	5	Cellulose	95

Lab No. 1200116 **Material Description:** Tan Mastic
Client No.: 32 **Location:** First Floor Lobby

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	5	Synthetic	95

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: Graciela Manjarres N.

Approved By: Frank Ehrenfeld

Date: DEC 27 2000 Graciela Manjarres N., AIHA-AAR [illegible]

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/28/2000
Project: MysticEd.Ctr.;Dyrant Bldg.,12-21-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200117 **Material Description:** Tan Ceiling Tile
Client No.: 33 **Location:** 1x1; Second Floor Bathroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Cellulose	25
		30	Fibrous Glass	

Lab No. 1200118 **Material Description:** Tan Ceiling Tile
Client No.: 34 **Location:** 1x1; Second Floor Bathroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Cellulose	25
		30	Fibrous Glass	

Lab No. 1200119 **Material Description:** Tan Ceiling Tile
Client No.: 35 **Location:** 1x1; Second Floor Bathroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Cellulose	25
		30	Fibrous Glass	

Lab No. 1200120 **Material Description:** Tan Linoleum
Client No.: 36 **Location:** Tan Mastic Second Floor Lobby

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Graciela Manjarres N.

Approved By: Frank Ehrenfeld

Date: DEC 28 2000 Graciela Manjarres N., AIHA-AAP 1009

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/28/2000
Project: MysticEd.Ctr.;Dyrant Bldg.,12-21-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200120 **Material Description:** Tan Linoleum
Client No.: 36 **Location:** Tan Mastic Second Floor Lobby

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Tan Mastic				
From Above				

Lab No. 1200121 **Material Description:** Tan Linoleum
Client No.: 37 **Location:** Tan Mastic Second Floor Lobby

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80

Lab No. 1200121 **Material Description:** Tan Linoleum
Client No.: 37 **Location:** Tan Mastic Second Floor Lobby

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Tan Mastic				
From Above				

Lab No. 1200122 **Material Description:** Tan Linoleum
Client No.: 38 **Location:** Tan Mastic Second Floor Lobby

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: Graciela Manjarres N.

Approved By: Frank Ehrenfeld

Date: DEC 28 2000 Graciela Manjarres N., AIHA-AAR [illegible]

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 12/28/2000
Project: MysticEd.Ctr.;Dyrant Bldg.,12-21-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1200122 **Material Description:** Tan Linoleum
Client No.: 38 **Location:** Tan Mastic Second Floor Lobby

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Tan Mastic
From Above

Lab No. 1200123 **Material Description:** Tan Sheetrock
Client No.: 39 **Location:** Second Floor Classroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	45	Cellulose	55

No Joint Compound

Lab No. 1200124 **Material Description:** White Fibrous
Client No.: 40 **Location:** Second Floor Classroom

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	80	Cellulose	20

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: Graciela Manjarres N.

Date: DEC 28 2000 Graciela Manjarres N., AIHA-AAR 1009

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

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16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 609.231.9449 Fax: 609.231.9818

972/9

- Chain of Custody -

Client: Delta Environmental Services
P.O. Box 564
Branford, CT 06405

Project Name: Mystic Education Center
Project No.: Mystic, CT
D97-148-24

Phone: (203) 481-7668
FAX: (203) 488-8164

Contact: Jim McCarthy
Pager:

Special Instructions:

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[✓] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400
[ ] PCM : OSHA
[ ] PCM : Other_____

[ ] AAS : NIOSH 7082 (Air)
[ ] AAS : Lead in Drinking Water
[ ] AAS : Lead in Paint ASTM D3335-85a
[ ] AAS : Lead Dust/Wipe
[ ] AAS : Other Metals / Soil_____

[✓] PLM : Bulk Asbestos EPA 600
[ ] PLM : Point Counting 198.1
[ ] PLM : NOB via 198.1 (PLM only)
[ ] If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements **
(**call to confirm TAT!)

[ ] TEM : AHERA
[ ] TEM : NIOSH 7402
[ ] TEM : EPA Level II
[ ] TEM : Microvac Dust
[ ] TEM : Asbestos in Water
[ ] TEM : Bulk Analysis
[ ] TEM : NOB 198.4
[ ] TEM : Other_____
[ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ date / time Verbals: _____ date / time

[ ] 10 Day [ ] 5 Day [ ] 72 hour [✓] 48 hour [ ] 24 hour [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): 9 (start) - 40 (end) IATL#(s): _____ (start) - _____ (end) Total: ___

Chain of Custody:

12/26 1500

Relinquished:	[signature]	Date: 12/21/00	Time: 5:00 pm
Received:		Date:	Time:
Sample Log-in:		Date:	Time:
Sample Prep:		Date:	Time:
Analyzed:	[signature]	Date: 12/27/2000 / 12/28/2000	Time:
QA/QC Review:	[signature]	Date: 0105101	Time:

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405

(203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Durant Bldg.

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
9	Sheetrock wall				1200093		Asbestos PLM EPA 600	Room 142				
10	Brown 12" Floor Tile				1200094		Please use positive stop	Room 140				
11	↓				1200095		↓	↓				
12	↓				1200096		↓	↓				
13	Mastic From Brown 12" Floor Tile				1200097		Please use positive stop	↓				
14	↓				1200098		↓	↓				
15	↓				1200099		↓	↓				
16	Carpet Adhesive				1200100			Room 14E				
17	Mastic From wood tile Flooring				1200101			Media center				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P. Malatts	Delta			1		James P. Malatts			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405

(203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
18	Mastic from wood tile Flooring				1200102		Asbestos PLM EPA 600 please use positive stop	Media Center				
19	↓				1200103		↓	↓				
20	Cloth pipe Fitting wrap				1200104		please use positive stop	Fan room				
21	↓				1200105		↓	↓				
22	↓				1200106		↓	↓				
23	Tape on pipe fitting				1200107		please use positive stop	↓				
24	↓				1200108		↓	↓				
25	↓				1200109		↓	↓				
26	Baseboard molding Adhesive				1200110			↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME
James R Melanthe	Delta		

ADDITIONAL COMMENTS:

TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
1		James R Melanthe			
2					
3					
4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
27	Baseboard Molding Adhesive				1200111		Asbestos PLM EPA 600 Please use positive stop	Fan Room				
28	↓				1200112		↓	↓				
29	Sheetrock				1200113							
30	Joint Compound				1200114			↓				
31	Carpet Adhesive				1200115		Please use positive stop	~~First~~ Floor Lobby				
32	↓				1200116		↓	↓				
33	Ceiling Tile Type 2' 1x1'				1200117		Please use positive stop	Second Floor Bathroom				
34	↓				1200118		↓	↓				
35	↓				1200119		↓	↓				

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Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME
James R Melanthe	Delta		

ADDITIONAL COMMENTS:

TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
1		James R Melanthe			
2					
3					
4					

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405

(203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well; SG = Sludge; X = Other; Specify ____; O = Outfall; S = Soil; WO = Waste Oil; R = River/Stream; RO = Run Off; LF = Landfill; B = Bottom Sediment; WW = Wastewater; SW = Sewage; L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
36	Linoleum + Adhesive				1200120		Asbestos PLM EPA 600 Please use low-TIME TAT	Second Floor Lobby				
37	↓				1200121		↓	↓				
38	↓				1200122		↓	↓				
39	Sheetrock				1200123			Second Floor Classroom				
40	Wallpaper				1200124			↓				

Container Codes: P = Plastic; E = EPA VIAL; G = Glass; A = Amber Glass; B = Bacteria Bottle
Preservative Codes: I = Iced; F = Filtered; N = Nitric Acid (HNO_3); H = Hydrochloric Acid (HCl); S= Sodium Hydroxide (NaOH); T = Sodium Thiosulfate; F = Sulfuric Acid; O = Other; Specify ____

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melotti	Delta			1		James R Melotti			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/16/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225029 **Material Description:** Lt Green Floor Tile
Client No.: 41 **Location:** Closet Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.8	Chrysotile	None Detected	None Detected	PC 97.2

Lab No. 1225030 **Material Description:** Sample Not Analyzed
Client No.: 42 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1225031 **Material Description:** Sample Not Analyzed
Client No.: 43 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1225032 **Material Description:** Black Mastic
Client No.: 44 **Location:** Closet Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	None Detected	None Detected	90

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith III.
Vane G. Smith, III, AIHA-AAR 4719

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

Date:

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

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CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/16/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225033 **Material Description:** Sample Not Analyzed
Client No.: 45 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1225034 **Material Description:** Sample Not Analyzed
Client No.: 46 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1225035 **Material Description:** Tan Jt Compound
Client No.: 47 **Location:** Classrooms Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.8	Chrysotile	None Detected	None Detected	PC 98.2

Lab No. 1225036 **Material Description:** Sample Not Analyzed
Client No.: 48 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith III
Vane G. Smith, III, AIHA-AAR 4719

Date:

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/16/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225037 **Material Description:** Sample Not Analyzed
Client No.: 49 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1225038 **Material Description:** White Floor Tile
Client No.: 50 **Location:** Dorm Area Corridor E Side;Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225039 **Material Description:** White Floor Tile
Client No.: 51 **Location:** Dorm Area Corridor E Side;Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225040 **Material Description:** White Floor Tile
Client No.: 52 **Location:** Dorm Area Corridor E Side;Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith III

Date:

Vane G. Smith, III, AIHA-AAR 4719

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/16/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225041 **Material Description:** Tan Mastic
Client No.: 53 **Location:** Dorm Area Corridor E Side;Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225042 **Material Description:** Blue Floor Tile
Client No.: 54 **Location:** Dorm Area Bedroom Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225043 **Material Description:** Blue Floor Tile
Client No.: 55 **Location:** Dorm Area Bedroom Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225044 **Material Description:** Blue Floor Tile
Client No.: 56 **Location:** Dorm Area Bedroom Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith III
Vane G. Smith, III, AIHA-AAR 4719

Approved By: Frank Ehrenfeld

Date:

Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/16/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225045 **Material Description:** Blue/Grn Floor Tile
Client No.: 57 **Location:** Dorm Area Corridor Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225046 **Material Description:** Blue/Grn Floor Tile
Client No.: 58 **Location:** Dorm Area Corridor Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225047 **Material Description:** Blue/Grn Floor Tile
Client No.: 59 **Location:** Dorm Area Corridor Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225048 **Material Description:** Maroon Floor Tile
Client No.: 60 **Location:** Dorm Area Corridor Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith, III
Vane G. Smith, III, AIHA-AAR 4719

Date:

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/16/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225049 **Material Description:** Maroon Floor Tile
Client No.: 61 **Location:** Dorm Area Corridor Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225050 **Material Description:** Maroon Floor Tile
Client No.: 62 **Location:** Dorm Area Corridor Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225051 **Material Description:** Lt Tan Floor Tile
Client No.: 63 **Location:** Dorm Area Bedroom Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225052 **Material Description:** Lt Tan Floor Tile
Client No.: 64 **Location:** Dorm Area Bedroom Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: Vane G. Smith III
Vane G. Smith, III, AIHA-AAR 4719

Date:

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/16/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225053 **Material Description:** Lt Tan Floor Tile
Client No.: 65 **Location:** Dorm Area Bedroom Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225054 **Material Description:** White Floor Grout
Client No.: 66 **Location:** Lt Tan Mastic;Dorm Bedrm;Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225054 **Material Description:** White Floor Grout
Client No.: 66 **Location:** Lt Tan Mastic;Dorm Bedrm;Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Lt Tan Mastic				
From Above				

Lab No. 1225055 **Material Description:** Tan Jt Compound
Client No.: 67 **Location:** Dorm Area Bedroom Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.3	Chrysotile	None Detected	None Detected	PC 98.7

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: Vane G. Smith III
Vane G. Smith, III, AIHA-AAR 4719

Date:

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/16/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225056 **Material Description:** Lt Brown Linoleum
Client No.: 68 **Location:** Student Dining Area

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	10	Cellulose	90

Lab No. 1225057 **Material Description:** Lt Grey Insulation
Client No.: 69 **Location:** Mechanical Rm 101 Lower Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Fibrous Glass	80

Lab No. 1225058 **Material Description:** WhiteGrey Insulation
Client No.: 70 **Location:** Mechanical Rm 101 Lower Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Fibrous Glass	80

Lab No. 1225059 **Material Description:** WhiteGrey Insulation
Client No.: 71 **Location:** Mechanical Rm 101 Lower Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	15	Fibrous Glass	85

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith, III
Vane G. Smith, III, AIHA-AAR 4719

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

Date:

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/27/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225060 **Material Description:** Grey/BrownInsulation
Client No.: 72 **Location:** Mechanical Rm 101 Lower Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
20	Chrysotile	None Detected	None Detected	80

Lab No. 1225061 **Material Description:** Sample Not Analyzed
Client No.: 73 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1225062 **Material Description:** Sample Not Analyzed
Client No.: 74 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1225063 **Material Description:** White Fibrous Mat'l
Client No.: 75 **Location:** Mechanical Rm 101 Lower Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
60	Chrysotile	35	Synthetic	5

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: Vane G. Smith
Vane G. Smith, III, AIHA-AAR 4719

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

Date:

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CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/16/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225064 **Material Description:** Sample Not Analyzed
Client No.: 76 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1225065 **Material Description:** Sample Not Analyzed
Client No.: 77 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1225066 **Material Description:** Grey Fibrous Mat'l
Client No.: 78 **Location:** Mechanical Rm 101 Lower Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	55	Fibrous Glass	45

Lab No. 1225067 **Material Description:** Grey Fibrous Mat'l
Client No.: 79 **Location:** Mechanical Rm 101 Lower Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	50	Fibrous Glass	50

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith
Vane G. Smith, III, AIHA-AAR 4719

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

Date:

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/16/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225068 **Material Description:** Grey Fibrous Mat'l
Client No.: 80 **Location:** Switchgear Rm 100 Lower Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	60	Fibrous Glass	40

Lab No. 1225069 **Material Description:** Grey Fibrous Mat'l
Client No.: 81 **Location:** Mechanical Rm 101 Lower Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	10	Fibrous Glass	90

Lab No. 1225070 **Material Description:** Grey Fibrous Mat'l
Client No.: 82 **Location:** Mechanical Rm 101 Lower Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	10	Fibrous Glass	90

Lab No. 1225071 **Material Description:** Grey Fibrous Mat'l
Client No.: 83 **Location:** Mechanical Rm 101 Lower Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	10	Fibrous Glass	90

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith III
Vane G. Smith, III, AIHA-AAR 4719

Date:

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/27/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225072
Client No.: 84
Material Description: Tan Jt Compound
Location: Gym Wall

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.5	Chrysotile	None Detected	None Detected	PC 98.5

Lab No. 1225073
Client No.: 85
Material Description: Brown Floor Tile
Location: Black Mastic;Fan Rm Interm Landing M/U

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.0	Chrysotile	None Detected	None Detected	97

Lab No. 1225073
Client No.: 85
Material Description: Brown Floor Tile
Location: Black Mastic;Fan Rm Interm Landing M/U

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	None Detected	None Detected	90
Black Mastic				
From Above				

Lab No. 1225074
Client No.: 86
Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith III
Vane G. Smith, III, AIHA-AAR 4719

Date: 01

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/16/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225075 **Material Description:** Sample Not Analyzed
Client No.: 87 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1225076 **Material Description:** Lt Tan Fibrous Mat'l
Client No.: 88 **Location:** Fan Rm Off Interm Landing Middle/Upper

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	60	Fibrous Glass	40

Lab No. 1225077 **Material Description:** White Linoleum
Client No.: 89 **Location:** Upper Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	15	Cellulose	85

Lab No. 1225078 **Material Description:** White Linoleum
Client No.: 90 **Location:** Upper Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith III
Vane G. Smith, III, AIHA-AAR 4719

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

Date:

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CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
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Branford CT 06405

Report Date: 02/16/2001
Project: Mystie Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225079 **Material Description:** White Linoleum
Client No.: 91 **Location:** Tan Mastic Upper Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	20	Cellulose	80

Lab No. 1225079 **Material Description:** White Linoleum
Client No.: 91 **Location:** Tan Mastic Upper Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Tan Mastic
From Above

Lab No. 1225080 **Material Description:** Grey Floor Tile
Client No.: 92 **Location:** Stairwell-South Upper Level Landing

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225081 **Material Description:** Tan Jt Compound
Client No.: 93 **Location:** Stairwell-South Upper Level Landing

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.3	Chrysotile	None Detected	None Detected	PC 98.7

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

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Analysis Performed By: Vane G. Smith, III
Vane G. Smith, III, AIHA-AAR 4719

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

Date:

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CERTIFICATE OF ANALYSIS

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Branford CT 06405

Report Date: 02/16/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225082 **Material Description:** Red Floor Mat'l
Client No.: 94 **Location:** Kitchen

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225083 **Material Description:** Red Floor Mat'l
Client No.: 95 **Location:** Kitchen

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225084 **Material Description:** Red Floor Mat'l
Client No.: 96 **Location:** Kitchen

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225085 **Material Description:** Tan Mastic
Client No.: 97 **Location:** Middle Level West Corr Behind Kitchen

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith III
Vane G. Smith, III, AIHA-AAR 4719

Date:

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/16/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225086 **Material Description:** Dk Grey Caulk
Client No.: 98 **Location:** E Side Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Wollastonite	100

Lab No. 1225087 **Material Description:** Dk Grey Caulk
Client No.: 99 **Location:** E Side Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Wollastonite	100

Lab No. 1225088 **Material Description:** Dk Grey Caulk
Client No.: 100 **Location:** E Side Middle Level

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	Trace	Wollastonite	100

Lab No. 1225089 **Material Description:** White/Grey Plaster
Client No.: 101 **Location:** Ext Canopy Outside Window; E Side

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith, III
Vane G. Smith, III, AIHA-AAR 4719

Date:

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

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Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 02/16/2001
Project: Mystic Education Center: 2/12/01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1225090 **Material Description:** White/Grey Plaster
Client No.: 102 **Location:** Ext Canopy Outside Window; E Side

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1225091 **Material Description:** White/Grey Plaster
Client No.: 103 **Location:** Ext Canopy Outside Window; E Side

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Vane G. Smith, III
Vane G. Smith, III, AIHA-AAR 4719

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

Date:

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054
Telephone: 609.231.9449 Fax: 609.231.9818

972/9

- Chain of Custody -

Client: Delta Environmental Services
P.O. Box 564
Branford, CT 06405

Project Name: [illegible]
Project No.: [illegible]

Phone: (203) 481-7668
FAX: (203) 488-8164

Contact: [illegible]
Pager:

Special Instructions:

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[✓] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400	[✓] PLM : Bulk Asbestos EPA 600	[ ] TEM : AHERA
[ ] PCM : OSHA	[ ] PLM : Point Counting 198.1	[ ] TEM : NIOSH 7402
[ ] PCM : Other_____	[ ] PLM : NOB via 198.1 (PLM only)	[ ] TEM : EPA Level II
	[ ] If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements **	[ ] TEM : Microvac Dust
[ ] AAS : NIOSH 7082 (Air)	(**call to confirm TATI)	[ ] TEM : Asbestos in Water
[ ] AAS : Lead in Drinking Water		[ ] TEM : Bulk Analysis
[ ] AAS : Lead in Paint ASTM D3335-85a		[ ] TEM : NOB 198.4
[ ] AAS : Lead Dust/Wipe		[ ] TEM : Other_____
[ ] AAS : Other Metals / Soil_____		[ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ (date / time) Verbals: _____ (date / time)

[ ] 10 Day [ ] 5 Day [ ] 72 hour [✓] 48 hour [ ] 24 hour [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): [illegible] (start) - [illegible] (end)

IATL#(s): _____ (start) - _____ (end) Total: ___

Chain of Custody:

Relinquished:	[illegible]	Date: 2/12/01	Time: [illegible]
Received:		Date:	Time:
Sample Log-in:	[illegible]	Date:	Time:
Sample Prep:		Date:	Time:
Analyzed:	VOS 2/15/01	Date:	Time:
QA/QC Review:	[illegible]	Date: 02/26/01	Time:

Archived/Released:_____ QA/QC InterLAB Use:_____ Date:_____ Time:_____

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Durant Building

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
41	Beige 12" Floor Tile				12	25029	Asbestos PLM EPA 600 PLEASE USE POSITIVE STOP	Closet Middle Level				
42	↓				12	25030	↓	↓				
43	↓				12	25031	↓	↓				
44	Mastic From Beige 12" Floor Tile				12	25032	PLEASE USE POSITIVE STOP	↓				
45	↓				12	25033	↓	↓				
46	↓				12	25034	↓	↓				
47	Joint Compound				12	25035	ANALYZE ALL ↓	Middle Level Classrooms				
48	↓				12	25036	↓	↓				
49	↓				12	25037	↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Durant Building

PROJECT NUMBER: D97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
50	White 12" Floor Tile				1225038		Arsenic PCM EPA 600 PLEASE USE POSITIVE STOP	Middle Level Dormitory Area Corridor East Side				
51	↓				1225039		↓	↓				
52	↓				1225040		↓	↓				
53	Mastic From White 12" Floor Tile				1225041			↓				
54	Purple 12" Floor Tile				1225042		PLEASE USE POSITIVE STOP	Middle Level Dormitory Area Bedroom				
55	↓				1225043		↓	↓				
56	↓				1225044		↓	↓				
57	Blue-Green 12" Floor Tile				1225045		PLEASE USE POSITIVE STOP	Middle Level Dormitory Area Corridor				
58	↓				1225046		↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melnotte	Delta			1		James R Melnotte			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Durant Building

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
59	Blue-Green 12" Floor Tile				1225047		Asbestos PLM EPA 600	Middle Level Dormitory Area Corridor				
60	Red/Maroon 12" Floor Tile				1225048		PLEASE USE POSITIVE STOP					
61					1225049							
62					1225050							
63	Pink 12" Floor Tile				1225051		PLEASE USE POSITIVE STOP	Middle Level Dormitory Area Bedroom				
64					1225052							
65					1225053							
66	Mastic/Floor Levelmatic				1225054							
67	Joint Compound				1225055							

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R. Melatts	Delta			1		James R. Melatts			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center
PROJECT LOCATION: Mystic, CT Durant Building
PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify ___ O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
68	Linoleum				12	25056	Asbestos PLM EPA 600	Student Dining Area				
69	Valve Tipping Cement				12	25057	PLEASE USE POSITIVE STOP	Lower Level Mechanical Room 101				
70	↓				12	25058	↓	↓				
71	↓				12	25059	↓	↓				
72	Heat Exchanger Insulation				12	25060	PLEASE USE POSITIVE STOP	↓				
73	↓				12	25061	↓	↓				
74	↓				12	25062	↓	↓				
75	Cloth Wrap on Heat Exchanger				12	25063	PLEASE USE POSITIVE STOP	↓				
76	↓				12	25064	↓	↓				

Container Codes: P = Plastic E = EPA VIAL G = Glass A = Amber Glass B = Bacteria Bottle
Preservative Codes: I = Iced F = Filtered N = Nitric Acid (HNO_3) H = Hydrochloric Acid (HCl) S= Sodium Hydroxide (NaOH) T = Sodium Thiosulfate F = Sulfuric Acid O = Other; Specify ___

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P. Melanthe	Delta			1		James P. Melanthe			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Durant Building

PROJECT NUMBER: D97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
77	Cloth wrap on Heat Exchanger				1225065		Asbestos PCM EPA 600	Lower level Mechanical Room 101				
78	Spray-on Fireproofing				1225066		PLEASE USE POSITIVE STOP	↓				
79	↓				1225067		↓	↓				
80	Spray-on Fireproofing				1225068			Lower Level Switchgear Room 100				
81	RPC Filtering Insulation				1225069		PLEASE USE POSITIVE STOP	Lower Level Mechanical Room 101				
82	↓				1225070		↓	↓				
83	↓				1225071		↓	↓				
84	Joint Compound				1225072			Gym Wall				
85	Brown 12" Floor Tile				1225073			Fan Room off Intermediate Landing Between Middle/Upper				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P. Malatto	Delta			1		James P. Malatto			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well; O = Outfall; WO = Waste Oil; RO = Run Off; B = Bottom Sediment; SW = Sewage; SG = Sludge; S = Soil; R = River/Stream; LF = Landfill; WW = Wastewater; L = Lake/Ocean; X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
86	Brown 12" Floor Tile				12	25074	Asbestos PCM EPA 600 PLEASE WE POSITIVE STOP	Fan Room off Intermediate Landing Between Middle/Upper				
87	↓				12	25075	↓	↓				
88	Sery-on Fireproofing				12	25076		↓				
89	White Linoleum				12	25077	PLEASE WE POSITIVE STOP	Upper Level				
90	↓				12	25078	↓	↓				
91	↓				12	25079	↓	↓				
92	Beige 12" Floor Tile				12	25080		Stairwell - South Upper Level Landing				
93	Joint Compound				12	25081		↓				
94	Red Floor Treatment				12	25082		Kitchen				

Container Codes: P = Plastic; E = EPA VIAL; G = Glass; A = Amber Glass; B = Bacteria Bottle
Preservative Codes: I = Iced; F = Filtered; N = Nitric Acid (HNO_3); H = Hydrochloric Acid (HCl); S= Sodium Hydroxide (NaOH); T = Sodium Thiosulfate; F = Sulfuric Acid; O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P. Melatts	Delta			1		James P. Melatts			
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-14E-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify ___, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
95	Red Floor Treatment				1225083		Asbestos PLM EPA 600 PLEASE USE POSITIVE STOP	Kitchen				
96	↓				1225084		↓	↓				
97	Carpet Adhesive				1225085			Middle Level West Corridor Behind Kitchen				
98	Window Caulk				1225086		PLEASE USE POSITIVE STOP	Middle Level East Side				
99	↓				1225087		↓	↓				
100	↓				1225088		↓	↓				
101	Plaster				1225089		PLEASE USE POSITIVE STOP	Exterior Canopy outside window East Side				
102	↓				1225090		↓	↓				
103	↓				1225091		↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify ___

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R. McLaughlin	Delta			1		James R. McLaughlin			
ADDITIONAL COMMENTS:				2					
				3					
				4					

APPENDIX C

Laboratory and Inspector Accreditations

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT-INSP/MGMT PLANNER

LICENSE NO.
000044
CURRENT THROUGH
02/28/01
VALIDATION NO.
00-321886

JAMES P. MCCARTHY

SIGNATURE

COMMISSIONER, DEPT. OF PUBLIC HEALTH

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

CHEMSCOPE, INC.
NORTH HAVEN, CT

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

BULK ASBESTOS FIBER ANALYSIS

March 31, 2002
Effective through

David F. Alderman
For the National Institute of Standards and Technology

NVLAP Lab Code: 101061-0

NVLAP-01C (11-95)

REPORT

PRE-RENOVATION INVESTIGATIVE SURVEY FOR ASBESTOS-CONTAINING MATERIALS MYSTIC EDUCATION CENTER GROTON, CONNECTICUT

Project No. RM-08-03
DPW No. 16958

Prepared for

State of Connecticut
Department of Public Works
Hartford, Connecticut

Prepared by

TRC
Windsor, Connecticut

December 23, 2008

PRE-RENOVATION INVESTIGATIVE SURVEY FOR ASBESTOS-CONTAINING MATERIALS MYSTIC EDUCATION CENTER GROTON, CONNECTICUT

Project No. RM-08-03
DPW No. 16958

Prepared for
State of Connecticut
Department of Public Works
Hartford, Connecticut

Prepared by
TRC
Windsor, Connecticut

Donald LePage
Project Manager

TRC Project No. 106957-9335-0001
December 23, 2008

TRC
21 Griffin Road North
Windsor, Connecticut 06095
Telephone (860) 298-9692
Facsimile (860) 298-6399

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B	LABORATORY AND INSPECTOR ACCREDITATIONS
C	ASBESTOS BULK SAMPLE CHAIN OF CUSTODY FORMS
D	PLM LABORATORY ANALYSIS DATA
E	TEM LABORATORY ANALYSIS DATA

EXECUTIVE SUMMARY

On December 15, 2008 TRC of Windsor, Connecticut conducted an inspection for suspect asbestos-containing materials (ACM) at the Mystic Education Center in Groton, Connecticut. The inspection was initiated prior to planned renovation activities in accordance with USEPA Asbestos National Emissions Standard for Hazardous Air Pollutants (NESHAPS) requirements.

The scope of the inspection was limited to the Durant Building and Utility Shed areas at the subject site. A Connecticut licensed asbestos inspector from TRC conducted the inspection in accordance with USEPA AHERA protocols and ASTM Standard E2356-04. Bulk samples of suspect materials were collected and analyzed via polarized light microscopy (PLM) and transmission electron microscopy (TEM) methods at CTDPH/NVLAP accredited laboratories. ACM was identified as packing cement in the Utility Shed area. ACM to be impacted by renovation activities must be removed prior to disturbance in accordance with OSHA, USEPA, CTDPH, and CTDEP standards for asbestos abatement/disposal. Detailed results of the asbestos survey can be found in Tables 1-3 and Appendices A through E.

PROJECT OUTLINE

Project Address:	Mystic Education Center Groton, CT
DAS Contract No.	03PSX0346E
DPW Project Manager	James Sinclair
DPW Project No.:	RM-08-03
DPW Building No:	16958
TRC Project No.:	106957-9335-0001
TRC Project Manager:	Don LePage
Asbestos Inspector:	Jonathan Gentile (LIC #000603)
Date of Inspection:	12/15/08
Asbestos Identified:	Yes

Additional Notes:
The site investigation was limited to the collection and analysis of suspect asbestos-containing materials from the Durant Building and the Utility Shed at the Mystic Education Center.

TABLES

TABLE 1 BULK SAMPLE SUMMARY OF SUSPECT ASBESTOS CONTAINING MATERIALS MYSTIC EDUCATION CENTER GROTON, CONNECTICUT			
Sample No.	**Sample Location**	**Homogeneous Material**	**% and Type Asbestos**
1	Durant Building o/s Room 225	Sheetrock (SR1)	ND<1%
		Joint compound (JC1)	ND<1%
2	Durant Building o/s Room 225	Sheetrock (SR1)	ND<1%
		Joint compound (JC1)	ND<1%
3	Durant Building o/s Room 225	Sheetrock (SR1)	ND<1%
		Joint compound (JC1)	ND<1%
4	Durant Building o/s Room 225	4" brown cove base (CB1)	ND<1%[1]
		Glue associated with CB1	ND<1%[1]
5	Durant Building o/s Room 225	4" brown cove base (CB1)	ND<1%
		Glue associated with CB1	ND<1%
6	Durant Building Room 225	Ceramic wall tile glue (CWTG1)	ND<1%[1]
7	Durant Building Room 225	Ceramic wall tile glue (CWTG1)	ND<1%
8	Durant Building Room 225	6" pink cove base (CB2)	ND<1%[1]
9	Durant Building Room 225	6" pink cove base (CB2)	ND<1%
10	Durant Building Custodial Closet	Ceramic floor tile glue (CFTG1)	ND<1%[1]
11	Durant Building Custodial Closet	Ceramic floor tile glue (CFTG1)	ND<1%
12	Utility Shed ceiling	Plaster ceiling (PL1)	ND<1%
13	Utility Shed ceiling	Plaster ceiling (PL1)	ND<1%
14	Utility Shed ceiling	Plaster ceiling (PL1)	ND<1%
15	Utility Shed wall	Packing cement (PC1)	20% chrysotile
16	Utility Shed wall	Packing cement (PC1)	NA/PS
17	Utility Shed window	Interior window glaze (WG1)	ND<1%[1]
18	Utility Shed window	Interior window glaze (WG1)	ND<1%

NA/PVA Not analyzed/positive via inseparable association with a confirmed positive ACM
NA/PS Not analyzed/positive stop, homogeneous to sample proven to contain ashestos
ND<1% Non-detected, less than 1%
NAD No asbestos detected
\+ Although found to be negative by analysis, material is homogeneous to a determined ACM and therefore must be considered positive
1 NOB material; result confirmed by TEM analyses
* Quantified by PLM Point Counting techniques

TABLE 2 IDENTIFIED ASBESTOS CONTAINING MATERIALS (>1%) MYSTIC EDUCATION CENTER GROTON, CONNECTICUT					
Material	**Sampled-Assumed (mo/yr)**	**General Location**	**NESHAP Category**	**AHERA Category**	**Estimated Quantity**
Packing cement (PC1)	Sampled 12/08	Utility Shed wall	Category II Non-friable	Miscellaneous	1 SF

AHERA Categories = thermal system insulation (TSI), surfacing material or miscellaneous
NESHAP Categories = friable, category I non-friable or category II non-friable
Friable = crumbled, pulverized or reduced to powder by hand pressure when dry
Category I Non-friable = packings, gaskets, resilient floor covering and asphalt roofing
Category II Non-friable = all non-friable that is not Category I

TABLE 3 CONFIRMED NON-ASBESTOS CONTAINING MATERIALS MYSTIC EDUCATION CENTER GROTON, CONNECTICUT	
Material	**General Location**
Sheetrock/joint compound (SR1/JC1)	Durant Building o/s Room 225
4" brown cove base (CB1) & associated glue	Durant Building o/s Room 225
Ceramic wall tile glue (CWTG1)	Durant Building Room 225
6" pink cove base (CB2)	Durant Building Room 225
Ceramic floor tile glue (CFTG1)	Durant Building Custodial Closet
Plaster ceiling (PL1)	Utility Shed ceiling
Interior window glaze (WG1)	Utility Shed window

APPENDIX A

SITE NOTES

106957.9335.0001

SHEET NO. _____ OF _____
PROJECT NO. _____
DATE _____
BY _____
CHK'D _____

TRC

SUBJECT @ Mystic Ed. Center

Durant Bldg

SRJC 1 ≈ 850 SF → sheetrock is 2 layers

CWTG 1 ≈ 208 SF
(Ceramic Wall Tile Glue)

CB1 ≈ 8 LF
(Cove Base Brown)

CB2 ≈ 26 LF
(Cove Base Pink) — glue is silicone

CFTG 1 ≈ 3 SF
(Ceramic Floor Tile Glue)

NOTE Plastic Wall Panels in shower attached w/ Liquid Nails per Harold no sample taken

Utility Bldg

PL 1 ≈ 100 SF
(Plaster)

WG 1 ≈ 2 Windows
(Window Glaze)

PC 1 ≈ 1 SF
(Packing Cement)

* No Drawing due to very limited * sampling areas in each bldg

A

0002295 FP **PRSRT T6 0 1664 06098
JONATHAN D. GENTILE
88 WHEELER STREET
WINSTEAD CT 06098

Dear Licensed/Certified Professional,

Attached you will find your validated license/certification for the coming year. Should you have any questions about your license/certificate renewal, please do not hesitate to write or call:

Department of Public Health
P.O. Box 340308
M.S.#12MQA
Hartford, CT 06134-0308

(860) 509-7603

http://www.dph.state.ct.us

Sincerely,

J Robert Galvin, MD, MPH, MBA

J. ROBERT GALVIN, MD, MPH, COMMISSIONER
DEPARTMENT OF PUBLIC HEALTH

INSTRUCTIONS:

1. Detach and sign each of the cards on this form.
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.
4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS LICENSED BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT-INSPECTOR

JONATHAN D. GENTILE

LICENSE NO. 000603
CURRENT THROUGH 10/31/09
VALIDATION NO. 03-759461

SIGNATURE

J Robert Galvin MD, MPH, MBA
COMMISSIONER

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JONATHAN D. GENTILE

VALIDATION NO. 03-759461
LICENSE NO. 000603
CURRENT THROUGH 10/31/09

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE

J Robert Galvin MD, MPH, MBA
COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JONATHAN D. GENTILE

VALIDATION NO. 03-759461
LICENSE NO. 000603
CURRENT THROUGH 10/31/09

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE

J Robert Galvin MD, MPH, MBA
COMMISSIONER

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

TRC ENVIRONMENTAL CORPORATION

LOCATED AT 21 Griffin Road North IN Windsor, CT 06095

AND REGISTERED IN THE NAME OF Eric Plimpton

THIS CERTIFICATE IS ISSUED IN THE NAME OF Kathleen Williamson WHO HAS BEEN DESIGNATED BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

ASBESTOS
AIR-FIBER COUNTING - PCM
BULK IDENTIFICATION - PLM

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES December 31, 2009 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 4th DAY OF January, 2008

Registration No.

PH- 0426

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION

National Voluntary
Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

TRC Environmental Corporation
21 Griffin Road North
Windsor, CT 06095
Ms. Kathleen Williamson
Phone: 860-298-9692 Fax: 860-298-6399
E-Mail: kwilliamson@trcsolutions.com
URL: http://www.trcsolutions.com

BULK ASBESTOS FIBER ANALYSIS (PLM) **NVLAP LAB CODE 101424-0**

NVLAP Code	*Designation / Description*
18/A01	EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

2008-07-01 through 2009-06-30
Effective dates

Sally S. Bruce
For the National Institute of Standards and Technology

NVLAP-01S (REV. 2005-05-19)

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200090-0

ProScience Analytical Services, Inc.

Woburn, MA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated 18 June 2005).

2008-01-01 through 2008-12-31

Effective dates

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

Sally S. Bruce

For the National Institute of Standards and Technology

NVLAP-01C (REV. 2006-09-13)

APPENDIX C

ASBESTOS BULK SAMPLE CHAIN OF CUSTODY FORMS

Edition: September 2007
Supersede Previous Edition

TRC

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 36438

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
106957.~~9285~~ 9335 .0001	CT DPW Mystic Educational Center		PLM: 24hr X 48hr 3day 5day TEM: 24hr X 48hr 3day 5day
SIGNATURE (HO)	INSPECTOR Jonathan D. Gentile		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM NY NOB 198.1 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
12	12/15/08			X	Utility Shed Ceiling	X					Plaster Ceiling (PL1)
13	12/15/08			X	Utility Shed Ceiling	X					Plaster Ceiling (PL1)
14	12/15/08			X	Utility Shed Ceiling	X					Plaster Ceiling (PL1)
15	12/15/08			X	Utility Shed Wall	X					Packing Cement (PC1)
16	12/15/08			X	Utility Shed Wall	X					Packing Cement (PC1)
17	12/15/08			X	Utility Shed Window	X				X	Interior Window Glaze (WG1)
18	12/15/08			X	Utility Shed Window	X					Interior Window Glaze (WG1)

Relinquished by: (Signature)	Date:	Received by: (Signature) 12/15/08	Relinquished by: (Signature)	Date:	Received by: (Signature)
	12/15/08				
(Printed) Jonathan D. Gentile	Time:	(Printed) 1445	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples: OK
Acceptable: Yes ✓ No
Comments:

APPENDIX D

PLM LABORATORY ANALYSIS DATA

15	Grey	Yes	No	--	--	20%	Chrysotile
16	--	--	--	--	--	NA/PS	--
17	Grey	Yes	No	--	--	ND<1%	None
18	Grey	Yes	No	--	--	ND<1%	None

NA/PS-Not Analyzed/Positive Stop

Reporting limit- asbestos present at 1%
ND<1% - asbestos was not detected
Trace- asbestos was observed at level of less than 1%

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, negative results must be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation (1982), and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey which utilizes polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2009. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through August 1, 2010. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and the QC data related to the samples is available upon written request from the client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

Analyst: Helen Rimsa

QC Analyst: Kathleen Williamson

Reviewed by: _____
Laboratory Analyst

Approved Signatory: _____
Kathleen Williamson
Laboratory Manager

Date Issued: 12/16/08

ProScience Analytical Services, Inc

22 Cummings Park, Woburn, Massachusetts 01801
781-935-3212 ~ Fax 781-932-4857 ~ E-Mail general@proscienca.net

Client #: 297
Client Project: 106957.9335.0001
Client Reference: CT DPW - Mystic Educational Center
Client Name: TRC Environmental Corp. (CT)

Method: TEM NOB
Batch: NT 10805
Date Analyzed: 12/18/2008
Date Received: 12/17/2008
Date of Report: 12/18/2008

LAB ID	Field ID	Description:	Color	Initial Sample Weight	% Asbestos Types						% Other Non-asb.	% Organic	% Carb.	Total % Asbestos	Analyzed /Charged	Prepad/ Charged
					CHR	AMO	ACT	CRO	ANT	TRE						
NT82952	4 G	Glue		.0498	.00	.00	.00	.00	.00	.00	34.94	37.75	27.31	ND	Yes	No
NT82953	4	Brown cove base		.3074	.00	.00	.00	.00	.00	.00	1.89	55.30	42.81	ND	Yes	No
NT82954	6	Ceramic wall tile glue		.1131	.00	.00	.00	.00	.00	.00	35.72	59.86	4.42	ND	Yes	No
NT82955	8	6" pink cove base		.2412	.00	.00	.00	.00	.00	.00	.54	42.70	56.76	ND	Yes	No
NT82956	10	Ceramic floor tile glue		.1499	.00	.00	.00	.00	.00	.00	19.27	72.92	7.81	ND	Yes	No
NT82957	17	Interior window glaze		.3824	.00	.00	.00	.00	.00	.00	3.53	13.47	83.00	ND	Yes	No

Comments:

Roland Holacsek, Analyst

Asbestos Codes: CHR = Chrysotile AMO = Amosite CRO = Crocidolite ACT = Actinolite TRE = Tremolite ANT = Anthophyllite TR = Trace = < 1% ND = None Detected

REPORT

COMPLIANCE REPORT FOR THE ABATEMENT OF ASBESTOS CONTAINING MATERIALS MYSTIC ORAL SCHOOL DURANT BUILDING MYSTIC, CONNECTICUT

Project No. RM-10-01
DPW No. 16958

Prepared for

State of Connecticut
Department of Public Works
Hartford, Connecticut

Prepared by

TRC
Windsor, Connecticut

September 28, 2010

COMPLIANCE REPORT FOR THE ABATEMENT OF ASBESTOS CONTAINING MATERIALS MYSTIC ORAL SCHOOL DURANT BUILDING MYSTIC, CONNECTICUT

Project No. RM-10-01
DPW No. 16958

Prepared for
State of Connecticut Department of Public Works
Hartford, Connecticut

Prepared by
TRC
Windsor, Connecticut

Donald LePage
Project Manager

TRC Project No. 164560-1740-0003
September 28, 2010

TRC
21 Griffin Road North
Windsor, Connecticut 06095
Telephone 860-298-9692
Facsimile 860-298-6399

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1.0 EXECUTIVE SUMMARY

TRC of Windsor, Connecticut was retained by the State of Connecticut Department of Public Works (CTDPW) to provide project compliance and industrial hygiene services during the abatement of asbestos containing materials (ACM) conducted at Mystic Oral School – Durant Building, Oral School Road, Mystic, Connecticut. TRC conducted this work per DAS Contract 08PSX0202 which is effective from January 30, 2009 through December 31, 2011. Asbestos abatement was necessitated in accordance with the U.S. Environmental Protection Agency (USEPA) Asbestos National Emission Standard for Hazardous Air Pollutants (NESHAP) (40 CFR Part 61 Subpart M) as the building structure was scheduled for future renovation. The asbestos abatement contractor for the project was A.A.I.S. Corporation (A.A.I.S.) of West Haven, Connecticut utilizing DAS Contract #03PSX0374AC. TRC was on site throughout the duration of the project to provide monitoring services.

The scope of work for the project, which took place on May 14, 2010, involved the abatement of less than 25 square feet (SF) of asbestos containing damaged sheetrock/joint compound in Room 109 in the Durant Building. Written notification to CTDPH of the abatement activity was not required as the project involved less than 10LF/ 25SF of ACM. All work conducted by A.A.I.S. was performed in compliance with OSHA's Occupational Exposure to Asbestos Standard, 29 CFR 1926.1101, the CT DPH Standards for Asbestos Abatement, 19a-332a-1 through 16, and the EPA's Asbestos National Emission Standard for Hazardous Air Pollutants (NESHAP) 40 CFR Part 61 Subpart M. A.A.I.S. is a licensed State of Connecticut Asbestos Abatement Contractor and all A.A.I.S. employees performing work on this project were appropriately licensed, trained, and medically qualified to perform such work. Interior work on ACM water-damaged sheetrock/joint compound was performed under full containment conditions with a negative pressure enclosure (NPE) and contiguous decontamination system.

Air samples were collected during abatement activities to monitor airborne asbestos fiber emissions and were transferred using proper chain-of-custody records to TRC's Accredited Laboratory in Windsor, Connecticut and analyzed on-site by an AIHA Registered Asbestos Analyst from TRC for Phase Contrast Microscopy (PCM) analysis via the National Institute for Occupational Safety and Health (NIOSH) 7400 method. All asbestos air samples collected by TRC (inside and outside of the work areas) were found to be below the OSHA Permissible Exposure Level (PEL).

After abatement activities, the work areas were visually inspected by a TRC licensed Asbestos Project Monitor following ASTM Standard E1368-90 to ensure complete abatement. Further, reoccupancy asbestos clearance air sampling was conducted by TRC in the interior NPE work areas. The interior NPE reoccupancy clearance air samples were collected and analyzed on-site by an AIHA registered Asbestos Analyst from TRC using PCM analysis via the NIOSH 7400 method. The interior NPE work areas received a satisfactory visual inspection on May 14, had reoccupancy clearance air samples collected on May 14 and received acceptable reoccupancy clearance criteria air results on May 14, 2010.

The asbestos-containing waste generated during this project was containerized and labeled as asbestos waste in compliance with CTDEP/ CTDPH, OSHA, DOT and USEPA requirements. The waste was removed from the site in accordance with all state and federal disposal requirements, including the USEPA Asbestos NESHAP, and transported by TransWaste, Inc. of Cheshire, Connecticut to Modern Landfill of York, Pennsylvania where it was deposited. Approximately one (1.25) cubic yard of asbestos waste was removed from the project site.

This concluded TRC's on-site efforts for this project. Refer to Section 2.0 for TRC's complete site log notes documenting all aspects of the project on a daily basis.

2.0 SITE LOGS

SITE LOG

Page 1

Site / Station CT DPW
Oral School, Mystic, CT

Month / Year MAY / 2010
Project No 164560.1740.0003

Date	Time	Instrument and TRC ID	Comments	Initials
5/14/10	1245		TRC and AAIS o/s for visual of	
			area of concern; room #109 (misc.	
			laundry room in Durant Bldg). Significant	
			amount of water damage on ceiling,	
			joint compound is area of concern	
			is larger than 3 sq' or 3 LNFT	HR
	1330		TRC and Steve Schroder, CT DPW walk	
			to office to verify ACM and	
			bldg. material; joint compound is	
			the contamination source Due to	
			the extensive water damage the	
			ceiling will be removed from the	
			point of damage to the far wall.	
			Tape will be applied to the walls and	
			if damage occurs it will be repaired	
			during ceiling replacement, per	
	1423		AAIS gives TRC paperwork for	HR
			workers Dudley Walton + Brian	
			Sullivan - all up to date. B Sullivan	
			did not have copies only originals.	
			AAIS will need to supply TRC with	
			copies	HR
	1445		Final visual performed by TRC, AAIS	
			is ready for removal.	HR
	1449		Crew starts removal,	
	1640		Final visual of work - containment	
	~~1645~~		clean and ready for air samples.	HR
	1645		Start clearance samples	HR
	1805		Stop clearance samples	HR
	1820		TRC informs AAIS that clearance samples	
			pass.	HR
	1845		TRC leaves site + AAIS leave site	HR

PROJECT OUTLINE

Project Address:	Mystic Oral School – Durant Building Oral School Road Mystic, CT
DAS Contract Number:	08PSX0202
DPW Project Manager:	Michael Sanders
DPW Project No.:	RM-10-01
DPW Building No.:	16958
TRC Project No.:	164560-1740-0003
Date(s) of Project:	5/14/10
TRC Project Manager:	Donald LePage
TRC Project Monitor(s)/Inspector(s):	Helen Rimsa (#000660) – PM
Abatement Contractor:	A.A.I.S. Corporation (#000017)
Materials Abated:	<25 SF ACM damaged sheetrock/joint compound – Room 109
Waste Hauler(s):	TransWaste, Inc., Cheshire, CT
Asbestos Landfill:	Modern Landfill, York, PA
Asbestos Waste Generated:	~ One (1.25) cubic yard (CY)

APPENDIX A
CONTRACTOR CERTIFICATIONS/LICENSES

New England Laborers' Training Academy
Route 97 & Murdock Road
Pomfret Center, CT 06259

ASBESTOS ABATEMENT SUPERVISOR REFRESHER

BRIAN P SULLIVAN	
Certificate Number 044565233ASBSR0410	
Course Date 4/8/2010	*Exam Date* 4/8/2010
Expires: 4/8/2011	

Claim Number:

Service Date: 02/05/2010

Concentra Medical Centers (CT)

701 Main Street EAST HARTFORD, CT 06108
Phone: (860) 289-5581 Fax: (860) 291-1895

RECEIVED FEB 1 1 2010

Non-Injury Status Report

Patient: Sullivan, Brian P.
SSN: XXX-XX-5233
Address: 103 Saddle Hill Drive
MIDDLETOWN, CT 06457
Home: (860) 343-0717
Work: Ext.:

Employer Location: AAIS
Address: 802 Boston Post Rd
West Haven, CT 065161828
Auth. by:

Contact: Tammy Hubbard
Role: Primary Contact
Phone: (203) 932-2992 Ext.: 230
Fax: (203) 932-9892

This Visit:

Time In: 02:27 pm Time Out: 04:50 pm Visit Type: New

Asbestos Physical Periodic was not done.
~~EKG Resting~~
Pulmonary Function Test
X-Ray B-Read/Interpretation
Asbestos Physical Periodic

Please adjust
thanks,

Result Status:

No medical restrictions

Remarks:

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Concentra Medical Centers (CT)
701 Main Street EAST HARTFORD, CT 06108
Phone: (860) 289-5561 Fax: (860) 291-1895

EMPLOYER AUTHORIZATION AND INFORMATION FOR RESPIRATORY EVALUATION

EMPLOYER TO COMPLETE THE FOLLOWING :

Employee Name: Sullivan, Brian P.

Address: 103 Saddle Hill Drive

MIDDLETOWN CT 06457

Employer: AAIS

Employee SSN: XXX-XX-5233

Check Type of Respirator(s) To Be Used (Check ✓ALL that apply)

- ☐ Air-purifying (non-powered) ☐ Air-purifying (powered)
- ☐ Atmosphere supplying Respirator
- ☐ Combination air-line and SCBA
- ☐ Continous-Flow Respirator
- ☐ Supplied-Air Respirator
- ☐ Open Circuit SCBA ☐ Closed Circuit SCBA
- ☐ Dust Mask ☐ 1/2 Face with Canisters ☐ Full Face with Canisters

Make: _____ Model: _____ Cartridge: _____

Special Work Conditions (Check ✓ ALL That Apply When Wearing Respirator)

- ☐ High Places ☐ Enclosed Places ☐ Protective Clothing
- ☐ Temperature Extremes ☐ Mostly Cold ☐ Mostly Hot
- ☐ Other: _____

Questionare will be: ☐ HAND CARRIED ☐ MAILED ☐ OTHER

Extent of Useage (Check ✓ALL that apply)

- ☐ On a daily basis _____ Total Hours
- ☐ Occasionally - but not more than twice a week ____ Total Hours
- ☐ Rarely - or for Emergency situations only ____ Total Hours

Expected Physical Effort Required (Check ✓ALL that apply)

☐ Light ☐ Moderate ☐ Heavy

Exposure to Hazardous Materials (Check ✓ALL that apply)

- ☐ Arsenic ☐ Benzene
- ☐ Coke Oven ☐ Cotton Seed / Dust
- ☐ Cadmium ☐ Formaldehyde
- ☐ Methylene Chloride ☐ Lead
- ☐ Textiles ☐ Chromium

Other(s): _____

EVALUATION AUTHORIZATION BY: _____
Signature of Employer Representative

DO NOT WRITE BELOW THIS LINE DO NOT WRITE BELOW THIS LINE DO NOT WRITE BELOW THIS LINE

PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYER)

PHYSICIAN WILL COMPLETE THE FOLLOWING

This report may contain confidential medical information and is intended for the designated employer contact only. The Americans with Disabilities Act (ADA) imposes very strict limitations on the use of information obtained during physical examination of qualified individuals with disabilities. All information must be collected and maintained on seperate forms, in seperate files, and must be treated as a confidential medical record, with the following exceptions:

- Supervisors and managers may be informed about necessary restrictions on the work or duties of an employee and necessary accommodations.
- First aid and safety personnel may be informed, when appropriate, if the disability might require emergency treatment.

Based upon my findings, I have determined that this individual (Check✓ALL that apply)

- ☐ Employee must schedule a medical examination with Concentra Medical Centers (CT) prior to respirator approval and usage.
- ☑ Class I - No Restrictions on Respirator Use
- ☐ Class II - Some Specific Use Restrictions ☐ To be used for Emergency Response or Escape Only ☐ Other: _____
- ☐ Class III - Respirator Use Is NOT PERMITTED
- ☐ Further Testing / Evaluation Is Required. [2]
- ☐ Fit Test Required ☐ Fit Test Performed Satisfactorily
- ☐ Fit Test Performed Unsatisfactorily ☐ Fit Test NOT Performed at: Concentra Medical Centers (CT
- ☐ Special prescription eyewear needed to accommodate respirator ☐ Special prescription eyewear needed to accommodate respirator
- ☐ Facial hair needs to be shaved to assure tight seal on certain face masks.

[1] Physician or other Licensed Healthcare Professional
[2] Employee must seek further medical evaluation by a private physician who must submit a report to Concentra Medical Centers (CT) of his/her findings to

(Check ✓ ALL that apply)

- ☑ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☐ The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees would be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☑ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Physician's Signature

16693-CT
Physician's License Number (Optional in Most States)

David Feinstein, MD.
Physician's Name (Printed)

2/5/10
Date of Exam

2/5/11
Expires On

Concentra Medical Centers (CT)
701 Main Street EAST HARTFORD, CT 06108
Phone: (860) 289-5561 Fax: (860) 291-1895

Service Date: 02/05/2010

Asbestos Periodic Medical Questionnaire

Patient: Sullivan, Brian P.
SSN: XXX-XX-5233
DOB: 06/09/1964
Gender: M
Marital Status: S
Address: 103 Saddle Hill Drive
MIDDLETOWN, CT 06457
Home Phone: (860) 343-0717
Work Phone: Ext.:

Job Title:
Employer: AAIS
Address: 802 Boston Post Rd
West Haven, CT 065161828
Job Contact: Tammy Hubbard
Role: Primary Contact
Phone: (203) 932-2992 Ext.: 230
Fax: (203) 932-9892

Race: ASIAN BLACK HISPANIC INDIAN WHITE OTHER

Occupational History

In the past year, did you work full time (30 hours per week or more) for six months or more? ✓ YES ___ NO

In the past year, did you work in any dusty job? ✓ YES ___ NO

Was dust exposure ___ Mild ✓ Moderate ___ Severe

In the past year, were you exposed to gas or chemical fumes in your work? ___ YES ✓ NO

Was exposure ___ Mild ___ Moderate ___ Severe

In the past year, what was your:

1) Job/Occupation laborer foreman
3) Position/Job title " "

Recent Medical History

Do you consider yourself to be in good health? ✓ YES ___ NO

If "NO" state reason

Epilepsy?	___ YES	✓ NO	Diabetes?	___ YES	✓ NO
Rheumatic fever?	___ YES	✓ NO	Jaundice?	___ YES	✓ NO
Kidney disease?	___ YES	✓ NO	Cancer?	___ YES	✓ NO
Bladder disease?	___ YES	✓ NO			

Chest Colds and Chest Illnesses

If you get a cold, does it usually go to your chest? ___ YES ✓ NO ___ Do not get colds

During the past three years, have you had any chest illnesses that have kept you off work, indoors at home, or in bed? ___ YES ✓ NO

Did you produce phlegm with any of these chest illnesses? ___ YES ✓ NO ___ Does not apply

In the last three years, how many such illnesses with (increased) phlegm did you have which lasted a week or more? 0 # of illnesses ✓ No such illnesses

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Respirator Fit Test

Employee Name: Brian Sullivan

Social Security #: 5233

Location: 16 Hamilton Street West Haven CT 06516

Location if different then above: 802 Boston Post Road West Haven, Ct. 06516

Date Tested: 2/5/10

Type of Test: Irritant Smoke Qualitative Testing

Type of Respirator: North ½ Face (7700-30 small, medium or (Large))

Test Results: (Pass) / Fail

Type of Respirator: Racal PAPR

Test Results: (Pass) Fail 3M - Full Face

Other type of Respirator: 3M - P.A.P.R.

Test Results: (Pass) / Fail

Employee Signature: [signature] Date: 2/5/10

Administrator: [signature] Date: 2/5/10

ENVIRONMENTAL TRAINING AND ASSESSMENT

Certificate of Completion

Asbestos Abatement Site Supervisor
Refresher Training Course
Awarded To

Dudley Watson
246 Mansion Street
Poughkeepsie, NY 12601

Has successfully completed, and passed an examination covering the contents of the one day 8 (eight) Hour Refresher Training Course for Asbestos Abatement Site Supervisor. This course is accredited by the State of Connecticut, and is in accordance with the EPA Revised MAP for accreditation under the TSCA Title II.

Course Date: 5/9/2009 Examination Grade: 80%
Examination Date: 5/9/2009 Certificate Number: ASR-01021
Expiration Date: 5/9/2010

Stephen Craig

Stephen J. Craig, Training Manager

Boston Lead Company, LLC
dba
Environmental Training and Assessment
62 Washington Street
Middletown, CT 06457
860-347-7277

Concentra Medical Centers (CT)
333 Kennedy Dr Ste 202 TORRINGTON, CT 06790
Phone: (860) 482-4552 Fax: (860) 498-1033

EMPLOYER AUTHORIZATION AND INFORMATION FOR RESPIRATORY EVALUATION

EMPLOYER TO COMPLETE THE FOLLOWING :

Employee Name: Watson, Dudley

Employer: AAIS

Address:
248 Mansion street
POUGHKEEPSIE NY 12601

Employee SSN: XXX-XX-8072

Check Type of Respirator(s) To Be Used (Check ✓ALL that apply)

- ☐ Air-purifying (non-powered) ☐ Air-purifying (powered)
- ☐ Atmosphere supplying Respirator
- ☐ Combination air-line and SCBA
- ☐ Continous-Flow Respirator
- ☐ Supplied-Air Respirator
- ☐ Open Circuit SCBA ☐ Closed Circuit SCBA
- ☐ Dust Mask ☐ 1/2 Face with Canisters ☐ Full Face with Canisters

Make: _____ Model: _____ Cartridge: _____

Special Work Conditions (Check ✓ ALL That Apply When Wearing Respirator)

- ☐ High Places ☐ Enclosed Places ☐ Protective Clothing
- ☐ Temperature Extremes ☐ Mostly Cold ☐ Mostly Hot
- ☐ Other: _____

Questionare will be: ☐ HAND CARRIED ☐ MAILED ☐ OTHER

Extent of Useage (Check ✓ALL that apply)

- ☐ On a daily basis ____ Total Hours
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- ☐ Rarely - or for Emergency situations only ____ Total Hours

Expected Physical Effort Required (Check ✓ALL that apply)

☐ Light ☐ Moderate ☐ Heavy

Exposure to Hazardous Materials (Check ✓ALL that apply)

- ☐ Arsenic ☐ Benzene
- ☐ Coke Oven ☐ Cotton Seed / Dust
- ☐ Cadmium ☐ Formaldehyde
- ☐ Methylene Chloride ☐ Lead
- ☐ Textiles ☐ Chromium

Other(s): _____

EVALUATION AUTHORIZATION BY: _____
Signature of Employer Representative

DO NOT WRITE BELOW THIS LINE DO NOT WRITE BELOW THIS LINE DO NOT WRITE BELOW THIS LINE

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- Supervisors and managers may be informed about necessary restrictions on the work or duties of an employee and necessary accommodations.
- First aid and safety personnel may be informed, when appropriate, if the disability might require emergency treatment.

Based upon my findings, I have determined that this individual (Check ✓ALL that apply)

- ☐ Employee must schedule a medical examination with Concentra Medical Centers (CT) prior to respirator approval and usage.
- ☑ Class I - No Restrictions on Respirator Use
- ☐ Class II - Some Specific Use Restrictions ☐ To be used for Emergency Response or Escape Only ☐ Other: _____
- ☐ Class III - Respirator Use is NOT PERMITTED
- ☐ Further Testing / Evaluation is Required. [2]
- ☐ Fit Test Required ☐ Fit Test Performed Satisfactorily
- ☐ Fit Test Performed Unsatisfactorily ☐ Fit Test NOT Performed at: Concentra Medical Centers (CT
- ☐ Special prescription eyewear needed to accommodate respirator ☐ Special prescription eyewear needed to accommodate respirator
- ☐ Facial hair needs to be shaved to assure tight seal on certain face masks.

[1] Physician or other Licensed Healthcare Professional
[2] Employee must seek further medical evaluation by a private physician who must submit a report to Concentra Medical Centers (CT) of his/her findings to

(Check ✓ ALL that apply)

- ☑ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
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- ☑ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

John L Robertson PAC
Physician's Signature

John L ROBERTSON PAC
Physician's Name (Printed)

000126 / CT
Physician's License Number (Optional in Most States)

6/19/09
Date of Exam

6/19/10
Expires On

JUN. 25. 2009 11:41AM CONCENTRA~TORRINGTON CT NO. 7957 P. 3

Concentra Medical Centers (CT)
333 Kennedy Dr Ste 202 TORRINGTON, CT 06790
Phone: (860) 482-4552 Fax: (860) 496-1033

Service Date: 06/19/2009

Physical Exam

Name: Watson, Dudley SSN: XXX-XX-8072 Date: 06/19/2009

Examination Results

_____ Able to perform essential functions as listed.

_____ Unable to perform all essential functions as listed. Please list failed essential function(s):

_____

_____

_____

__✓__ No medical restrictions are indicated.

_____ The following medical restrictions are indicated:

_____

_____

_____

_____ Recommend further evaluation.

Remarks: _____

_____

_____

_____

John Robertson PA-C

Provider Print Name Here

Provider Signature

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JUN. 25. 2009 11:41AM CONCENTRA~TORRINGTON CT NO. 7957 P. 5

Advanced Toxicology Network
3650 Air Center Cove, Suite 101
Memphis, TN 38118
Ph: (888)290-1150 Fx: (901)794-6460
Medical Director: Pamela T. Osborne, MD

090623TOFI01 400654203
Account: *00731 *00731 CMC/CT-Torr
Address: 333 Kennedy Drive Suite 2
Torrington, CT 06790
Phone: (860)482-4552
Location: AAIS

Donor Name: WATSON, DUDLEY
SSN: 109-72-8072
Alternate Id:
DOB - Sex: 5/31/1957 - M
Phone:

Requisition: 400654203
Collected: 06/19/2009 13:10
Received: 06/23/2009 03:36
Reported: 06/23/2009 12:03
Fasting: N

Physician: ROBERTSON
Report To: 806478 *00731 CMC/CT-Torr
Address: 333 Kennedy Drive Suite 2
Torrington, CT 06790
Phone: (860)482-4552
Fax: 18604961033

Collect Site: 806478 *00731 CMC/CT-Torr
Phone: (860)482-4552
Post-Prandial: N/A

TEST	RESULT	FLAGS	NORMALS	UNITS
83655B Lead,blood Lead,blood	5.9		0 - 10	ug/dl

Reference Ranges:
Adult: < 10 ug/dl
Industrial: < 40 ug/dl
Blood Lead in Adults, Occupationally Exposed: OSHA and/or Industrial Standards are < 40ug/dl.
Blood lead levels of 5-9 ug/dl have been associated with adverse health effects in children aged 6 years and younger.
Results > or = 40 ug/dl are verified by repeat analysis.

84202Z Zinc Protoporphyrin Zinc Protoporphyrin	36		0 - 100	ug/dl

OSHA Industrial Standard < 100 ug/dl

--- End Of Report 400654203 ---

WNL JPR 6/23/09

Respirator Fit Test

Employee Name: Dudley Watson

Social Security #: 8072

Location: office

Location if different then above: _____

Date Tested: 10

Type of Test: Irritant Smoke Qualitative Testing

Type of Respirator: North ½ Face (7700-30 small, medium or large)

Test Results: Pass / Fail

Type of Respirator: Racal PAPR

Test Results: Pass / Fail

Other type of Respirator: 3M- Full Face 3M- P.A.P.R.

Test Results: Pass / Fail

Employee Signature: Dudley Watson Date: 10/2/09

Administrator: Christopher L. Kentt Sr. Date: 10/2/09

APPENDIX B
DAILY PROJECT SIGN-IN SHEETS

APPENDIX C
CONTRACTOR OSHA PERSONNEL AIR SAMPLING RESULTS

APPENDIX D
TRC CERTIFICATIONS/LICENSES

CERTIFICATE OF ACHIEVEMENT

This certifies that

Helen Rimsa

has successfully completed the

40 Hour Asbestos Project Monitor Initial Training

conducted by
ATC Associates Inc.
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Doug Aurke
Principal Instructor

Gregory J. Morsch
Regional Manager

June 15-19, 2009
Date of Course

PM-193
Certificate Number

June 19, 2010
Expiration Date

June 19, 2009
Examination Date

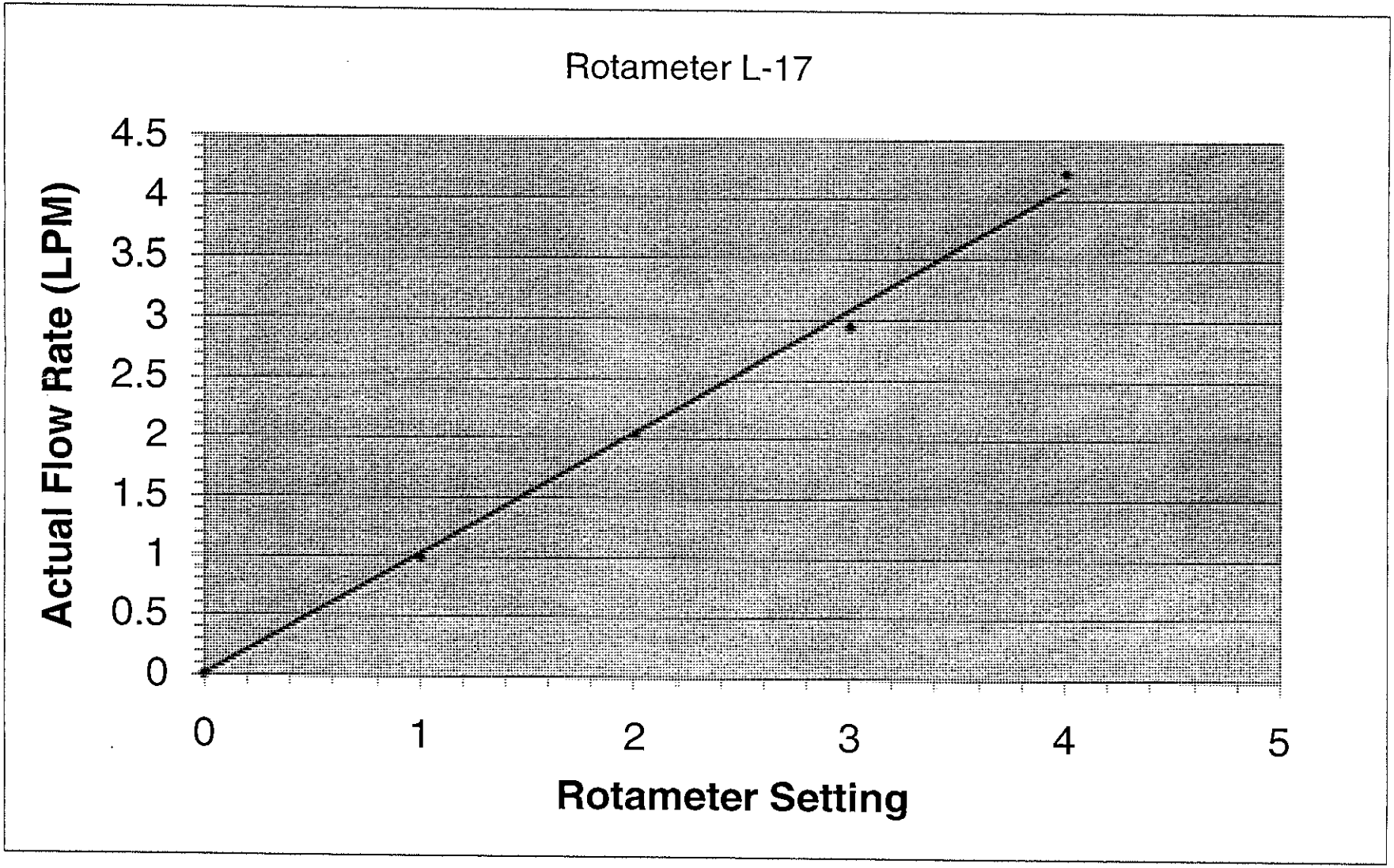
APPENDIX E
EQUIPMENT CALIBRATION DATA

Rotameter L-17

Rotameter Setting	Avg. Flow
0	0
1	0.99
2	2.03
3	2.94
4	4.22

Calibrated on: 04 May 2010
Due: 04 November 2010
By: K. Williamson

TSI # 4146 0651 005



Rotameter calibrated using center of ball

H:\Lab\Rotameters\2010\Low Flow\Rotameter L-17 (05-04-10).xls

APPENDIX F
LABORATORY ANALYTICAL CERTIFICATIONS

AIHA

Protecting Worker Health

The American Industrial Hygiene Association

acknowledges that

TRC Environmental Corporation

21 Griffin Road North, Windsor, CT 06095

Laboratory ID: 100122

has fulfilled the requirements of the AIHA Laboratory Quality Assurance Programs (LQAP), thereby, conforming to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories.* The above named laboratory, along with all premises from which key activities are performed, as listed above, have been accredited by AIHA in the following:

ACCREDITATION PROGRAMS

✓	**INDUSTRIAL HYGIENE**	Accreditation Expires: 8/1/2010
☐	**ENVIRONMENTAL LEAD**	Accreditation Expires:
☐	**ENVIRONMENTAL MICROBIOLOGY**	Accreditation Expires:
☐	**FOOD**	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with LQAP requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA website for the most current status of the scope of accreditation.

Laura R. McMahon

Laura R. McMahon
Chairperson, Analytical Accreditation Board

Lindsay E. Booher

Lindsay E. Booher, CIH, CSP
President, AIHA

Date Issued: 08/01/2008

COMPLIANCE REPORT FOR THE ABATEMENT OF ASBESTOS CONTAINING MATERIALS MYSTIC EDUCATION CENTER ADMINISTRATION/GIRLS BUILDING MYSTIC, CONNECTICUT

Project No. RM-08-02
DPW No. 16946

Prepared for
State of Connecticut Department of Public Works
Hartford, Connecticut

Prepared by
TRC
Windsor, Connecticut

Donald LePage
Project Manager

TRC Project No. 106957-9130-0003
January 5, 2009

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1.0 EXECUTIVE SUMMARY

TRC of Windsor, Connecticut was retained by the State of Connecticut Department of Public Works (CTDPW) to provide project compliance and industrial hygiene services during the abatement of asbestos containing materials (ACM) conducted at the Mystic Education Center – Administration/Girls Building, Mystic Oral School Road, Mystic, Connecticut. TRC conducted this work per DAS Contract 03PSX0346AE which is effective from May 7, 2004 to February 28, 2009. Asbestos abatement was necessitated in accordance with the U.S. Environmental Protection Agency (USEPA) Asbestos National Emission Standard for Hazardous Air Pollutants (NESHAP) (40 CFR Part 61 Subpart M) as the building structure was scheduled for future renovation. The asbestos abatement contractor for the project was Petco Insulation Company, Inc. (Petco) of West Haven, Connecticut utilizing DAS Contract #03PSX0374AC. TRC was on site throughout the duration of the project to provide monitoring services.

The scope of work for the project, which took place from September 18 through September 26, 2008, involved the abatement of approximately 945 square feet (SF) of asbestos containing floor tile/mastic in the stairwells of the Administration/Girls Building. Written notification of the abatement activity was filed with the Connecticut Department of Public Health (CT DPH) by Petco ten days prior to the initiation of the abatement work. A copy of the notification was submitted by Petco to TRC. All work conducted by Petco was performed in compliance with OSHA's Occupational Exposure to Asbestos Standard, 29 CFR 1926.1101, the CT DPH Standards for Asbestos Abatement, 19a-332a-1 through 16, and the EPA's Asbestos National Emission Standard for Hazardous Air Pollutants (NESHAP) 40 CFR Part 61 Subpart M. Petco is a licensed State of Connecticut Asbestos Abatement Contractor and all Petco employees performing work on this project were appropriately licensed, trained, and medically qualified to perform such work. Interior work on ACM floor tile/mastic was performed following a pre-approved CTDPH blanket Alternative Work Practice (AWP) with a negative pressure enclosure (NPE) consisting of critical barriers, a single layer of 6-mil poly and contiguous decontamination system (AWP Scenario #2). ACM glue removal on one

disturbed stair tread was performed as a spot removal utilizing the glovebag technique and a remote decontamination facility

Air samples were collected during abatement activities to monitor airborne asbestos fiber emissions and were transferred using proper chain-of-custody records to TRC's Accredited Laboratory in Windsor, Connecticut and analyzed on-site by an AIHA Registered Asbestos Analyst from TRC for Phase Contrast Microscopy (PCM) analysis via the National Institute for Occupational Safety and Health (NIOSH) 7400 method. All asbestos air samples collected by TRC (inside and outside of the work areas) were found to be below the OSHA Permissible Exposure Level (PEL).

After abatement activities, the work areas were visually inspected by a TRC licensed Asbestos Project Monitor following ASTM Standard E1368-90 to ensure complete abatement. Further, reoccupancy asbestos clearance air sampling was conducted by TRC in the interior NPE work areas. The interior NPE reoccupancy clearance air samples were collected and analyzed on-site by an AIHA registered Asbestos Analyst from TRC using PCM analysis via the NIOSH 7400 method. The interior NPE work areas received satisfactory visual inspections on September 22, September 23 and September 25, had reoccupancy clearance air samples collected on September 23, September 24, September 25 and September 26, and received acceptable reoccupancy clearance criteria air results on September 23, September 24, September 25 and September 26, 2008. The glovebag spot removal area also received a satisfactory visual inspection on September 26, 2008 and was deregulated.

The asbestos-containing waste generated during this project was containerized and labeled as asbestos waste in compliance with CTDEP/ CTDPH, OSHA, DOT and USEPA requirements. The waste was removed from the site in accordance with all state and federal disposal requirements, including the USEPA Asbestos NESHAP, and transported by Red Technologies, LLC of Bloomfield, Connecticut and Bumpus Trucking of Washington Courthouse, Ohio to Minerva Enterprises of Waynesburg, Ohio where it was deposited. Approximately seven (6.60) cubic yards of asbestos waste were removed from the project site.

This concluded TRC's on-site efforts for this project. Refer to Section 2.0 for TRC's complete site log notes documenting all aspects of the project on a daily basis.

2.0 SITE LOGS

TRC

SITE LOG

Page 1

Site / Station MYSTIC EDUCATION CENTER
MYSTIC, CT

Month / Year 9/03

Project No 106957-9130-0003

Date	Time	Instrument and TRC ID	Comments	Initials
9/18	0800		TRC + PETCO (CREW) ON SITE FOR DAY. DENNIS	HH
			O'CONNER (PROJ. MGR) ON SITE TO SHOW	
			CREW WORK AREAS. WORK IS TO OCCUR	
			@ ADMINISTRATION/GIRL'S BLDG. STAIR-	
			WELLS. TRC + PETRO UNLOAD EQUIP.	
	0930		PETCO STARTS TO PREP @ A144/ELEV. STAIRS	
			HH COLLECTS SIGN-IN + PAPERWORK	
	0815	LATE ENTRY	TRC + PETCO MEET UP W/ HAROLD (MAINT.)	HH
	0940		HH STARTS UP MONITORING PUMPS @	
			A144/ELEV. STAIRS. (A144 E.S.)	
	11:00		HH GETS FLOOR LAYOUT FR/ HAROLD. TO	HH
			MARK OFF WORK AREA. ~91 SF ACM	
			FLOOR + MASTIC.	
	12:00		LUNCH.	HH
	12:30		CREW RETURNS TO PREP.	HH
	13:30		TRC + PETRO OFF SITE FOR DAY.	HH
			AFTER HH TAKES DOWN MONITORING PUMPS	
	0700		TRC + PETRO ON SITE FOR DAY. CREW TO	HH
			FINISH UP PREP @ A144 E.S. THEN WILL MOVE	
			ON TO PREP @ A136/137 STAIRS. (A136-37S)	HH
	0900		PREP @ A144 E.S. IS COMPL. CREW TO BREAK.	HH
	0915		CREW MOVES TO PREP @ A136-37S. HH	HH
			STARTS UP MONITORING PUMPS.	
	10:30		PREP CONTINUES AS ABOVE.	HH
	12:00		PETRO BREAKS FOR LUNCH	HH
	15:15		TRC + PETRO OFF SITE FOR DAY.	HH

TRC

SITE LOG

Page 2

Site / Station: Mystic Education CTR, Mystic, CT

Month / Year: September 2008

Project No: 106957.9130.003

Date	Time	Instrument and TRC ID	Comments	Initials
9/22	0700		TRC + Petco onsite @ Mystic Edu CTR.	
			Petco will continue prep in A136-	
			A137 stair case. They are putting up	
			critically and pollying walls.	EH
	0730		EH collects paper work + sign in	
			sheet from petco.	EH
	0800		EH sets up monitor pumps	
			around Petco's prep area.	EH
	1000		Petco continues prep in A136- A137	
			stair well area.	EH
	1030		Petco sets up Remote Decon in Hallway.	
			EH does a ~~Bag~~ pre-visual in A144	
			stairs. It passes and petco can	
			start removal.	EH
	1200		Lunch	EH
	1230		Petco starts removal. Carlos Melendez into	
			containment in A144 stair well area.	EH
	1330		Petco continues removal in A144 stair area.	EH
	1400		All floor tile is removed. Petco bagging	
			out and then buffing mastic	EH
	1430		EH does post visual. visual passes	
			and EH will run air clearance test	
			Tuesday morning.	EH
	1500		TRC + petco off site for day	EH

TRC

SITE LOG

Page 3

Site / Station: Mystic Education CTR, mystic, CT

Month / Year: September 2008

Project No: 106957.9130.0003

Date	Time	Instrument and TRC ID	Comments	Initials
9/23/08	0700		TRC + Peto onsite. Peto will complete	
			prep + Build decon in stair well A136-A137.	EH
	0730		EH sets up clearance cassettes in	
			stair (A144).	EH
	0800		EH starts clearance in A144 stair	
			Area.	EH
	0815		EH sets up low flow pumps	
			around A136 - A137 where they will	
			be Removing floor Tile today.	EH
	0830		EH does pre visual in A136- A137	
			stair well Area. Visual passes and	
			Peto begins Removal.	EH
	0920		EH stops clearance pumps and will	
			Read onsite. EH will also Read	
			yesterday low flow pump cassettes onsite too.	EH
	1000		Containment in # A144 passes clearance.	
			Peto can Tear down when they get	
			a chance.	EH
	1030		Peto continues Removal in A136- A137	
			stair well Area and basement plat form.	EH
	1045		All floor tile Removed + Bagged in A136-A137.	
			Peto will begin Removing mastic Now.	EH
	1130		Peto continues Removing mastic with mastic	
			Remover.	EH
	1200		Lunch and after Lunch Peto will begin	
			bagging out.	EH
	1300		Peto Bagging out Bags from A136 A137	
			Stair elevation.	EH
	1400		EH does post visual. containment A136- A137	
			passes. EH will do clearance test which	EH

TRC

SITE LOG

Page 4

Site / Station: Mystic Education CTR, Mystic, CT

Month / Year: September 2008

Project No: 106957.9130.0003

Date	Time	Instrument and TRC ID	Comments	Initials
9/23	1410		Peto Tears down and bags up	
			Everything in Containment A144.	EH
	1430		EH Takes down and collects monitor	
			pumps.	EH
	1515		TRC + Peto off site.	EH
9/24	0700		TRC + Peto onsite @ Mystic Education center.	
			Peto will prep 6104 - 6105 Exit stair	
			well and 6106 - 6107 Exit stair way.	
			Peto complete Tear down of A144	
			elevation.	EH
	0730		EH collects Daily sign in sheet from	
			Peto and starts all Daily paper work.	EH
	0810		EH sets up clearance pumps in A136 - A137	
			stair well.	EH
	0830		EH starts clearance in A136 - A137 cont.	EH
	0850		EH sets up pumps around prep	
			Areas. (6104 - 6105) and (6106 - 6107)	EH
	0950		EH Takes down clearance pumps in	
			Containment A136 - A137 and will Read	
			on site @ Mystic.	EH
	1045		Clearance samples from Containment A136 - A137	
			passes. Peto can Tear down Containment.	EH
	1100		Peto Begins to prep Exit stair well	
			near 6106 - 6107. EH sets up (1)	
			monitor pump around Area.	EH
	1200		Lunch	EH
	1330		Peto continues prep in 6106 - 6107	
			Exit stairs Area. Peto Supervisor Ricky	
			Santiago looking for Harold (Head of maintance)	
			about extra green floor tile in Hallway	
			to see if it is getting Removed.	EH

TRC

SITE LOG

Page 5

Site / Station: Mystic Education CTR, Mystic, CT

Month / Year: September 2008

Project No: 106457.9130.0003

Date	Time	Instrument and TRC ID	Comments	Initials
9/24	1400		EH collects air samples around prep area's.	EH
	1430		TRC + petco off site. petco went	
			to ware house in morning so they	
			time starts there!	EH
9/25	0700		TRC + petco on site. EH does pre-visual	
			in G104 - G105 Exit stair well. containment	
			passes and petco can begin removal	
			whenever.	EH
	0730		EH collects daily sign in sheet	
			from petco and starts site log.	EH
	0810		EH puts out monitor pumps	
			around work / prep area near G04-G05	
			and G106 - G107 stair cases.	EH
	0900		EH reads yesterday prep samples.	EH
	0930		Break	EH
	0945		petco starts removal in G104-G105	
			Exit stair well. petco continues to	
			prep in G106-G107 too.	EH
	1115		EH does post visual in containment G104-G105	
			It passes. EH will start air clearance test	
			~~[illegible]~~. soon.	EH
	1120		EH performs pre-visual inspection	
			in containment G106-G107. It looks	
			good and petco can begin removal.	EH
	1130		EH starts clearance test in G104-G105	
			stair area. Petco already has floor tile	
			up in G106-G107 area.	EH
	1215		Harry the maintance guy @ Mystic Edu. CTR	
			notices disturbed stair tread with glue under	
			neath it. petco will remove glue using glove bag	
			first thing friday morning.	EH

TRC

SITE LOG

Site / Station: Mystic Education CTR, Mystic, CT

Month / Year: September 2008

Project No: 106957.9130.003

Date	Time	Instrument and TRC ID	Comments	Initials
9/25	1220		Harry also says new cove base will	
			be glued on over old glue in A136-A137	
			Stair well area in basement.	EH
	1250		EH takes down clearance pumps in	
			Containment 6104-6105. EH will prep	
			cassettes and Read onsite.	EH
	1340		The clearance in 6104-6105 passes.	
			Petco can Tear down polly.	EH
	1410		EH takes down monitor cassettes and	
			will Read Friday morning.	EH
	1415		EH does post visual in Containment	
			6106-6107. It is very clean and passes.	
			EH will start clearance first thing friday	
			morning so petco can Tear down.	EH
	1445		EH complete all Daily paper work	
			and petco begins cleaning up for	
			the Day.	EH
	1515		TRC + petco off site.	EH
9/26	0715		TRC + Petco onsite. EH sets up clearance	
			in Containment 6106-6107 Area.	EH
	0730		Clearance starts in 6106-6107 Stair well	
			Area.	EH
	0800		Petco Removes glue under Stair Tread	
			in A144 Stair Area By using glove	
			Bag. EH inspects when done. Area is	
			clean and Hepa Vacuumed.	EH
	0830		Petco Tears down Containment 6104-6105	
			Stair Area.	EH
	0850		EH takes down clearance in 6106-6107	
			Area and will Read on site.	EH

TRC

SITE LOG

Site / Station: Mystic Education CTR, Mystic, CT

Month / Year: September 2008

Project No: 106957.9/30.0003

Date	Time	Instrument and TRC ID	Comments	Initials
9/26	0920		Petco starts to Remove window caulk	
			from Rm # 120. Frame is staying,	
			Just the caulk to be Removed.	EH
	0935		Clearance in containment 6106 - 6107	
			passes. Petco can Tear down.	EH
	1005		EH does post visual of window	
			in Room # 120. EH has petco	
			scrape off some caulk around screws.	EH
	1015		window passes. Petco begins to Tear	
			Down remainder of containments and	
			load Truck with Bags.	EH
	1200		Lunch	EH
	1300		Petco loads up negative Airs +	
			left over material and equipment into	
			Truck.	EH
	1330		TRC + petco off site. Job	
			is complete.	EH

PROJECT OUTLINE

Project Address:	Mystic Education Center Administration/Girls Building Mystic Oral School Road Mystic, CT
DAS Contract Number:	03PSX0346AE
DPW Project Manager:	James Sinclair
DPW Project No.:	RM-08-02
DPW Building No.:	16946
TRC Project No.:	106957-9130-0003
Date(s) of Project:	9/18/08-9/26/08
TRC Project Manager:	Donald LePage
TRC Project Monitor(s)/Inspector(s):	Hilton Hernandez (#000298) – PM Eric Hastedt (#000612) – PM
Abatement Contractor:	Petco Insulation Co., Inc. (#000036)
Materials Abated:	~945 SF ACM floor tile/mastic – Administration/Girls Building stairwells
Waste Hauler(s):	Red Technologies, LLC, Bloomfield, CT Bumpus Trucking, Washington Courthouse, OH
Asbestos Landfill:	Minerva Enterprises, Waynesburg, Ohio
Asbestos Waste Generated:	~ Seven (6.60) cubic yards (CY)

APPENDIX A
NOTIFICATIONS/ALTERNATIVE WORK PRACTICES

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
ASBESTOS ABATEMENT NOTIFICATION FORM

State Use Only

Post Mark Date:_____
Check #: _____
Amount:_____
Transmittal #_____
Record #:_____

This form is to be completed, postmarked and filed with the Connecticut Department of Public Health ten (10) days prior to the start of asbestos abatement, as required by the Regulations of Connecticut State Agencies, Section 19a-332a-3. In case of emergency notifications, this form is to be completed and postmarked within one (1) working day following the start of asbestos abatement. The U.S. EPA may require notification of abatement or demolition, as per 40 CFR, Part 61, the asbestos NESHAP regulation. Faxed originals are not acceptable. Revisions may be faxed unless a fee is required.

(fill in or circle each item)

1. TYPE OF NOTIFICATION

A. NEW X **B. BLANKET** ____ **C. CANCELLATION / POSTPONED (C)** ____ **(P)** ____
D. REVISED ____ **(ITEMS REVISED)** _____ **REVISION #:** _____
E. EMERGENCY ____ **DESCRIBE NATURE OF EMERGENCY** _____

2. ABATEMENT CONTRACTOR:
Name: Petco Insulation Company, Inc. License #: 000036
Address: 88 Farwell Street, P.O. Box 26127
City: West Haven State: Connecticut Zip Code: 06516
Phone #: (203)934-3926 Contact Person: James Reilly

3. FACILITY OWNER/OPERATOR:
Name: State of Connecticut, Department of Public Works
Address: 165 Capitol Avenue
City: Hartford State: Connecticut Zip Code: 06106
Phone #: (860)713-5821 Contact Person: Jim Sinclair

4. NAME OF FACILITY: (MUST BE FILLED IN)
Name: Mystic Education, Administration/Girls Building
Address: Mystic Oral School Road
City: West Mystic State: Connecticut Zip Code: _____

5.(A) START DATE: 9/18/08 **5. (B) COMPLETION DATE:** 10/1/08

FOR PROJECTS INVOLVING 160 SQ FT OR MORE OF ASBESTOS

IF APPLICABLE
6. (A) TOTAL COST OF ABATEMENT: _____ **6. (B) REVISED COST:** _____

Mail to:
Connecticut DPH
Division of Environmental Health
Indoor Air Program
410 Capitol Avenue, MS 51 AIR
PO Box 340308
Hartford, CT 06134-0308

Phone: (860) 509-7367/ Fax: (860) 509-7378
An Equal Opportunity Employer

7. USE OF FACILITY:

A. School (K-12) ____ B. Public Building ____ C. Manufacturing ____
D. Office ____ E. College ____ F. Commercial ____
G. Church/Synagogue ____ H. Residential, # of dwellings ____ I. Other X (SPECIFY) DMR Facility

8. BUILDING DATA:

SQUARE FEET: 98,369 Number of floors: 4 Age: 1923 (Addition: 1930)

9. ABATEMENT CLASSIFICATION:

A. Renovation: X B. Demolition: ____ C. Ordered Demolition – Agency Issuing Order: ____
NOTE: Attach Demolition Order

10. ABATEMENT TECHNIQUE:

A. Full Containment with Neg. Air X B. Alternative Work Practice (preapproval required) X
Project Designer / License # Blanket DPW AWP, Scenario #2
C. Exterior Abatement ____ D. SPOT REPAIR (>25 SQ FT TOTAL) ____

11. ABATEMENT METHOD:

A. Removal X
B Encapsulation ____
C .Enclosure ____

12. TYPE OF DECONTAMINATION SYSTEM:

A. Contiguous X B. Remote X

13. TYPE AND AMOUNT OF ASBESTOS TO BE ABATED: (REPORTED IN SQUARE FEET)

FRIABLE MATERIAL

A. Sprayed or Troweled on		Sq. ft.	E. Duct Insulation		Sq. ft.
B. Boiler Insulation		Sq. ft.	F. Ceiling Tiles		Sq. ft.
C. Tank Insulation		Sq. ft.	G. Other, Specify:		Sq. ft.
D. Breeching Insulation		Sq. ft.	H. Pipe Insulation*		Sq. ft.
*Pipe Insulation	Total Linear Feet				

Pipe diameter" Linear Feet multiplied by conversion factor* equals Total Sq ft (*see Notif. Conversion table)

	In.		LF	x		
	In.		LF	x		
	In.		LF	x		
	In.		LF	x		

NONFRIABLE MATERIAL

Category I	square feet	Category II	square feet
I. Floor coverings/tiles	945	L. Transite Board	
J. Roofing, specify:		M. Other, specify:	
K. Gaskets, packings			

14. WASTE DIPSOSAL SITE (IF MULTIPLE SITES, LIST SEPARATELY):

Name	Modem Landfill	OR	BFI Imperial Landfill	OR	Minerva Enterprises	OR	Hakes C&D Landfill
Address	4400 Mt. Pisgah Rd		11 Boggs Road, P.O Box 47		9000 Minerva Road		4376 Manning Ridge Rd
City, State, Zip	York, PA 17402		Imperial, PA 15126		Waynesburg, OH 44688		Painted Post, NY 14870
Owner, Operator							

15. HAULER/WASTE TRANSPORTER:

Name	Transwaste, Inc.	and/or	Red Technologies, LLC
Address	3 Barker Drive		10 Northwood Drive
City, State, Zip	Wallingford, CT 06492		Bloomfield, CT 06002

Name of Individual Completing This Form James Reilly

State of Connecticut
Department of Public Health
Alternative Work Practice (AWP)
Approval Form

Check box for applicable AWP scenario

☐ **1. Renovation Projects – Removal of Friable Asbestos-Containing Material (ACM) Using the Glove-Bag Method**
Variance from Section 19a-332a-5(e)

Abatement work in facilities subject to this approval shall be conducted with appropriate signage, as required by Section 19a-332a-5(a). In lieu of the requirements of Section 19a-332a-5(e), the friable asbestos-containing material shall be removed utilizing the glove-bag procedure outlined in 29 CFR 1926.1101, of the Department of Labor, Occupational Safety and Health Administration regulation. In addition to the glove-bag procedure, the work area is to be isolated from the non-work area by establishing an air-tight barrier of 6 mil polyethylene sheeting covering or composing the wall surfaces and covering the floor surface. In areas where this barrier does not extend to the ceiling, the layer of 6 mil polyethylene sheeting shall compose the ceiling of the air-tight enclosure.

☒ **2. Renovation Projects – Removal of Non-friable ACM**
Variance from Section 19a-332a-5(e)

Abatement work in facilities subject to this approval shall be conducted with appropriate signage, as required by Section 19a-332a-5(a). In lieu of the requirements of Section 19a-332a-5(e), the work area shall be isolated from the non-work area by barriers as outlined in Section 19a-332a-5(c). Additionally, a single layer of 4 or 6 mil polyethylene sheeting shall be used to seal the wall surfaces in the work area. This scenario is limited to non-friable flooring/treading, cove base, mastic/glue, transite/cementitious materials, glue daubs, gaskets, caulking, putty and asphalt materials unless written approval by DPH is granted.

☐ **3. Demolition Projects, Sound Structure – Removal of Friable ACM Using the Glove-Bag Method**
Variance from Section 19a-332a-5(e)

Abatement work in facilities subject to this approval shall be conducted with appropriate signage, as required by Section 19a-332a-5(a). In lieu of the requirements of Section 19a-332a-5(e), the work area shall be isolated from the non-work area by barriers as outlined in Section 19a-332a-5(c). The friable asbestos-containing material shall be removed utilizing the glove-bag procedure outlined in 29 CFR 1926.1101 of the Department of Labor, Occupational Safety and Health Administration regulation. Negative pressure ventilation will be established in accordance with Section 19a-332a-5(h). The work area shall be visually inspected and pass the no visible debris criteria of Sections 19a-332a-5(g) and 19a-332a-7(c). In addition, when the building is to be reoccupied by any person prior to demolition, post abatement reoccupancy air testing shall be performed in accordance with Section 19a-332a-12.

☐ **4. Demolition Projects, Sound Structure – Removal of Non-friable ACM**
Variance from Section 19a-332a-5(e)

Abatement work in facilities subject to this approval shall be conducted with appropriate signage, as required by Section 19a-332a-5(a). In lieu of the requirements of Section 19a-332a-5(e), the work area is to be isolated from the non-work area by barriers as outlined in Section 19a-332a-5(c). Negative pressure ventilation will be established in accordance with Section 19a-332a-5(h). This work practice is applicable *only* for removal of non-friable ACM. For the purposes of this approval, non-friable ACM is limited to non-friable flooring/treading, cove base, mastic/glue, transite/cementitious materials, glue daubs, gaskets, caulking, putty and asphalt materials unless written approval by DPH is granted.

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

March 20, 2007

Edward P. Fennell
ATC Associates
290 Roberts Street, Suite 204
East Hartford, CT 06108

Re: Application for Approval of Alternative Work Practice for Renovation and Demolition of Various Properties Owned By the State of Connecticut Department of Public Works

Dear Mr. Fennel:

This letter is in response to an application from you prepared March 13, 2007, requesting approval of a blanket alternative work practice for the removal of various asbestos-containing materials (ACM) associated with the renovation and demolition of various properties owned by the State of Connecticut Department of Public Works. Based upon the information provided in the application describing the proposed alternative work practices, *conditional* approval is granted by the Department of Public Health (DPH). This *conditional* approval of the requested variance is granted only as applied to the specific scenarios given below. *As a condition of approval, each asbestos abatement contractor utilizing these approved alternative work practices shall submit a copy of this approval letter with the asbestos abatement notification form submitted for each project site. The notification form or accompanying documentation shall clearly reference the AWP scenario(s) to be utilized in performing that abatement. Further, the notification or accompanying documentation shall clearly indicate the quantity(ies) and type(s) of asbestos-containing material to be removed by each scenario.*

In all the following scenarios, the required signs shall be posted, in accordance with Subsection 19a-332a-5(a).

Scenario 1 – Renovation Projects: Friable ACM, Glove-Bag Method

In lieu of the requirements of Subsection 19a-332a-5(e), the work area is to be isolated from the non-work area by barriers as outlined in Subsection 19a-332a-5(c). Additionally, a single layer of 6-mil polyethylene sheeting shall be used to seal or compose the wall surfaces and cover the floor surfaces in the work area. In areas where this barrier does not extend to the ceiling, the layer of six-mil polyethylene sheeting shall compose the ceiling of the airtight enclosure. The friable ACM shall be abated using the glove bag procedure, as outlined in 29 CFR 1926.1101. The work area shall pass the no visible residue criterion of Subsections 19a-332a-5(g) and 19a-332a-7(c) prior to encapsulation, as determined by a licensed Project Monitor.

Scenario 2 – Renovation Projects: Nonfriable ACM

In lieu of the requirements of Subsection 19a-332a-5(e), the work area is to be isolated from the non-work area by barriers as outlined in Subsection 19a-332a-5(c). Additionally, a single layer of 4-mil or 6-mil polyethylene sheeting shall be used to seal the wall surfaces in the work area. In areas where this barrier does not extend to the ceiling, the layer of polyethylene sheeting shall compose the ceiling of the airtight enclosure. The work area shall

Phone: (860) 509-7367 Fax: (860) 509-7378
Telephone Device for the Deaf: (860) 509-7191
410 Capitol Avenue - MS # 51AIR
P.O. Box 340308 Hartford, CT 06134
Affirmative Action / An Equal Opportunity Employer

pass the no visible residue criterion of Subsections 19a-332a-5(g) and 19a-332a-7(c) prior to encapsulation, as determined by a licensed Project Monitor. This work practice is applicable only to nonfriable ACM. Nonfriable ACM is limited to: flooring/treading, cove base, mastic/glues, transite/cementitious materials, glue daubs, gaskets, glazings, caulkings, putty, and asphalt materials, unless written approval by the DPH is granted.

Scenario 3 – Demolition, sound structure: Friable ACM, Glove-Bag Method

In lieu of the requirements of Subsection 19a-332a-5(e), the work area is to be isolated from the non-work area by barriers as outlined in Subsection 19a-332a-5(c). Negative pressure ventilation will be established in accordance with Subsection 190a-332a-5(h). The friable ACM shall be abated using the glove bag procedure, as outlined in 29 CFR 1926.1101. In conjunction with the glove bag procedure, a single layer of polyethylene sheeting shall be placed on the floor beneath the pipe insulation to serve as a drop cloth. The work area shall pass the no visible residue criterion of Subsections 19a-332a-5(g) and 19a-332a-7(c) prior to demolition, as determined by a licensed Project Monitor. Post abatement reoccupancy air testing is mandatory if the building shall be reoccupied.

Scenario 4 – Demolition, sound structure: Nonfriable ACM

In lieu of the requirements of Subsection 19a-332a-5(e), the work area is to be isolated from the non-work area by barriers as outlined in Subsection 19a-332a-5(c). Negative pressure ventilation will be established in accordance with Subsection 190a-332a-5(h). The work area shall pass the no visible residue criterion of Subsections 19a-332a-5(g) and 19a-332a-7(c) prior to demolition, as determined by a licensed Project Monitor. Post abatement reoccupancy air testing is mandatory if the building shall be reoccupied. This work practice is applicable only to nonfriable ACM. Nonfriable ACM is limited to: flooring/treading, cove base, mastic/glues, transite/cementitious materials, glue daubs, gaskets, glazings, caulkings, putty and asphalt materials, unless written approval by the DPH is granted.

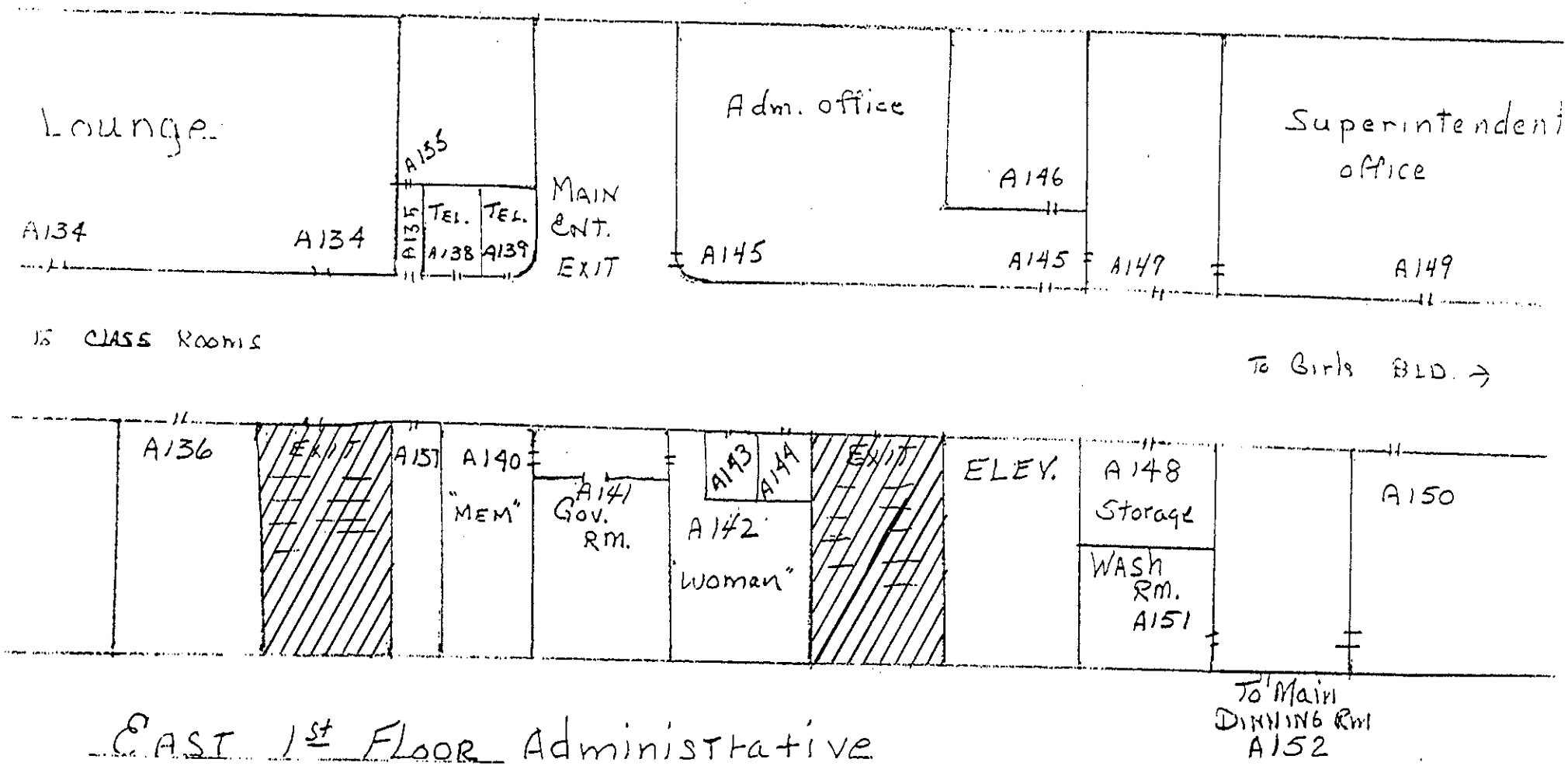
Except as noted in this letter, all other work practices specified in the Standards for Asbestos Abatement regulation are mandatory. This approval is specific to the identified facility and does not relieve the contractor or facility owner from any other federal, state or municipal regulations. The Department reserves the right to rescind this approval should it determine that equivalent means of asbestos emission control are not maintained.

Please feel free to contact this office should you wish to discuss this matter further.

Sincerely,

Jimmy Davila
Environmental Sanitarian I
Asbestos Program
Environmental Health Section

APPENDIX B
SITE SKETCH WITH ABATEMENT LOCATIONS



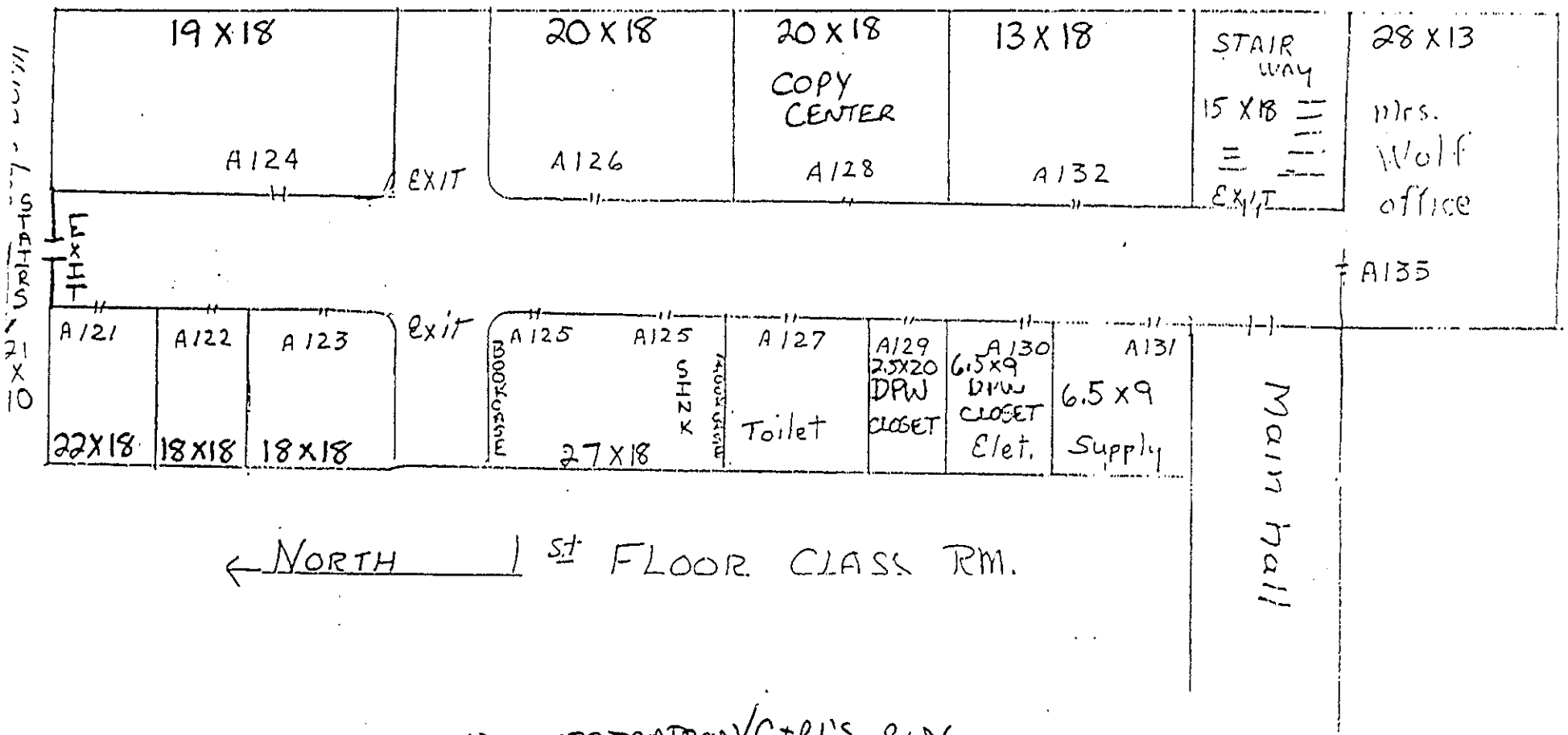
EAST 1st FLOOR Administrative

ADMINISTRATION/GIRL'S BLDG

A144/ELEV. STAIRS { ~91 SF FLOOR TILE + MASTIC
1ST FLOOR LANDING + LOWER ENTRANCE LANDING

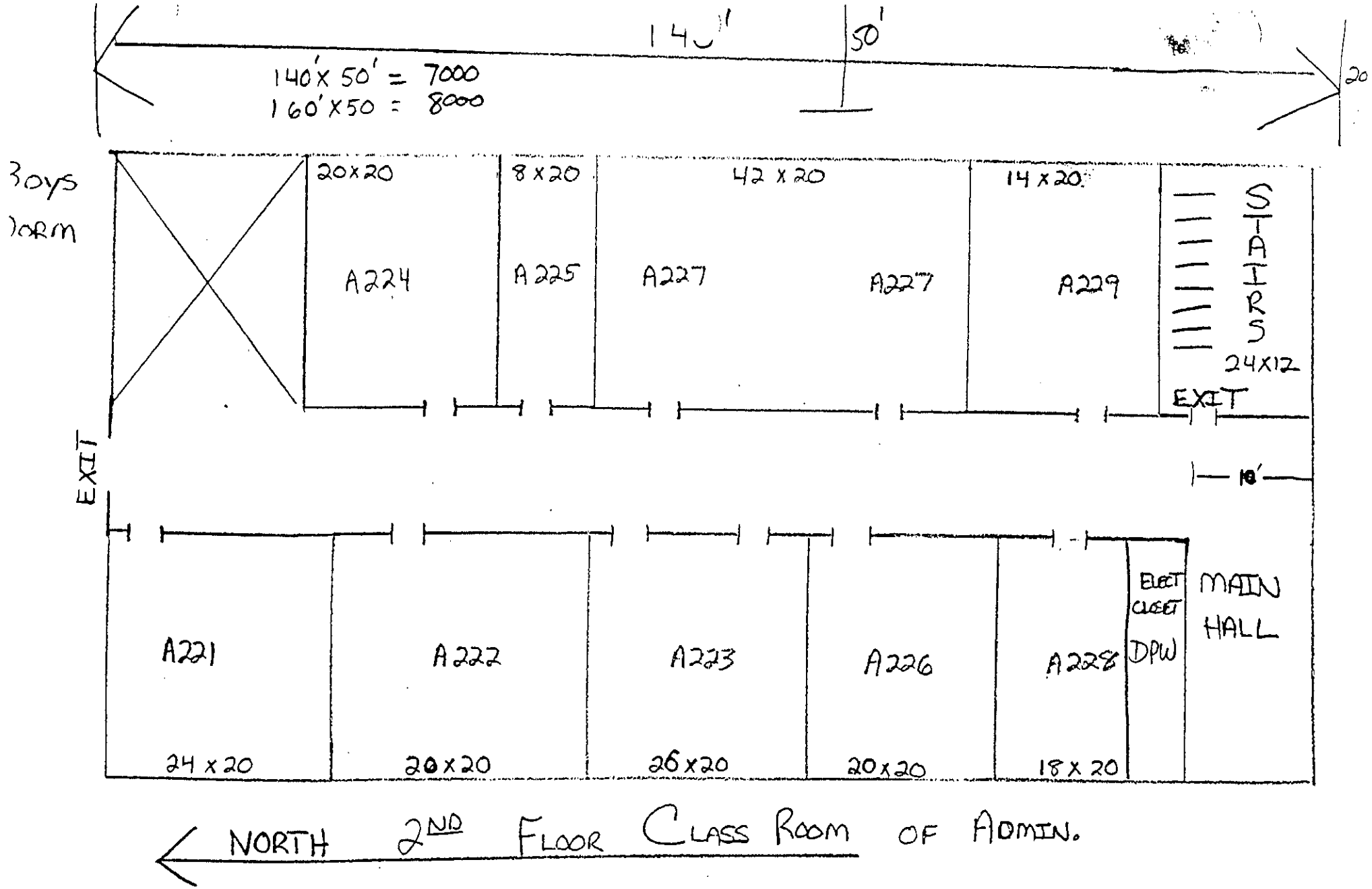
A136+ A137 STAIRS { ~352 SF FLOOR TILE + MASTIC
1ST FLOOR LANDING, ENTRANCE LANDING + BSMT LANDING

160 X 50 = 8000 SQ FT.



← NORTH 1st FLOOR CLASS RM.

ADMINISTRATION/GIRL'S BLDG.



ADMINISTRATION/GIRLS BLDG.

APPENDIX C
CONTRACTOR CERTIFICATIONS/LICENSES

CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

Health Care or Environmental Health Professional's License Status

This site is part of **CT-clic.com**, the **Connecticut Licensing Info Center**, that links to all YOUR State licensing and registration needs.

License Type:	Asbestos Abatement Supervisor
License Number:	000588
Name:	SANTIAGO, RICKY
Expiration Date:	6/30/2009
Granted Date:	8/10/2000
License Name:	Ricky Santiago
License Status:	Current
Disciplinary Action:	None

State of Connecticut Disclaimer and Privacy Policy Copyright © 2002 - 2007 State of Connecticut

Superior Industries LLC

SUPERIOR INDUSTRIES L.L.C.

Committed to a Clean Environment

Certificate of Completion

Awarded to

Ricky Santiago

(SSN 041-70-4562) (DOB 6-13-1976)

Has completed a 8 Hour 1 Day Approved Course of Instruction in Asbestos Abatement Removal and Disposal (AARD)

Supervisor Refresher Training

June 21, 2008

Required by OSHA and the EPA Revised MAP for accreditation under the TSCA Title 11 as self-certified by Trainer 8/5/97

Required by Connecticut Regulations 19a-332-21

SUPERIOR INDUSTRIES LLC
342 Carter Lane
Southington, Ct. 06489
860-620-1133 (voice)
860-620-1134 (fax)

Examination Date: June 21, 2008
Expiration Date: June 21, 2009
Certificate Number: ASR-041-70-4562-08

Earl R. Clark, Training Director

ETCI

Environmental Training and Consulting, Inc.
One Heritage Place, Suite 102B, Manchester, CT 06040 860 – 649 – 7284

Certificate of Completion

Ricky Santiago
041-70-4562

has successfully completed and passed a hands-on evaluation and an examination covering the contents of the five (5) day, forty (40) hour initial course for Asbestos Abatement Supervisor Training as required by Connecticut General Statutes Section 20-440 in accordance with the EPA revised Model Accreditation Plan under TSCA Title II, as certified by the undersigned.

Date of Course: 09/20/99 – 09/24/99

Date of Exam: 09/24/99

Expiration Date: 09/24/00
Certificate Number: ASB-SI-092499-03

John V. Bruce
Training Coordinator

SILVER LANE MEDICAL CENTER, LLC
Sultan A. Quraishi, M.D., F.R.C.S.
East Hartford, CT 06118
Telephone: (860) 569-7399

Employers Asbestos Clearance Letter

Name: Ricky Santiago SSN# 041-70-4562

Date of Exam: 07 / 18 / 08 Expires: 07 / 18 / 09

This letter confirms that the above named individual was examined in compliance with the OSHA asbestos standard (CFR 1910,1001 and 1226.58). A medical and work history and complete physical examination were performed. Pulmonary function test (PFT) were administered.

CHEST XRAY RESULTS: Normal [✓] Abnormal [ ] Not Nec.

PULMONARY FUNCTION TEST RESULTS: Normal [✓] Abnormal [ ]

The following limitations on personal protective equipment, including respirators are indicated:

[✓] None, the patient is medically qualified to wear all personal protection equipment.
[ ] Patient Limitations: _____

The employee has been informed of the results of the medical examination, both with regard to occupation and general medical conditions. The employee has been educated about increased risk of lung cancer. Smokers are advised regarding smoking cessation if indicated in accordance with the standard finding and diagnosis unrelated to asbestos exposure may not be communicated to the employer. Also in accordance with the Standard, a copy of this opinion is being forwarded to the employee.

Thank you for the opportunity to examine this individual.

S A Quraishi
Physician

SILVER LANE MEDICAL CENTER
677 SILVER LANE
EAST HARTFORD, CT 06118-1231
(860) 569-7399
Address

RESPIRATOR FIT TEST

TYPE OF FIT TEST

QUANTITATIVE	
QUALITATIVE	X
IRRITANT SMOKE	X

SIGNATURES

DATE	BRAND	MODEL	TYPE	SIZE	TESTER	EMPLOYEE
6/4/08	WILSON	3225	½ FACE	M	[illegible]	Ricky Santiago

By my signature, I affirm that I only wear those brands, type, models and sizes of respirators for which I have passed fit tests

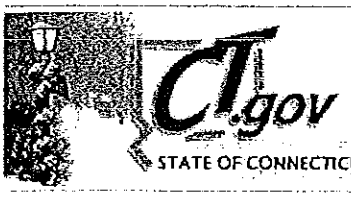
EMPLOYEE NAME RICKY SANTIAGO

EMPLOYEE SS #

SIGNATURE Ricky Santiago

7 18-07 JR

CT.gov STATE OF CONNECTICUT



CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

ABOUT US PROGRAMS AND SERVICES PUBLICATIONS FORMS CONTACT US HOME

Health Care or Environmental Health Professional's License Status

This site is part of CT-clic.com, the **Connecticut Licensing Info Center**, that links to all YOUR State licensing and registration needs.

License Type:	Asbestos Abatement Worker
License Number:	006913
Name:	MELENDEZ, CARLOS A
Expiration Date:	1/31/2009
Granted Date:	8/15/2003
License Name:	Carlos A. Melendez
License Status:	Current
Disciplinary Action:	None

Home | CT.gov Home | Send Feedback

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Superior Industries LLC

SUPERIOR INDUSTRIES L.L.C.

Committed to a Clean Environment

Certificate of Completion

Awarded to

Carlos Melendez

(SSN 528-37-4673) (DOB 1-15-1981)

Has completed a 8 Hour 1 day Approved Course of Instruction in Asbestos Abatement Removal and Disposal (AARD)

Worker Refresher - Spanish

June 7, 2008

Required by OSHA and the EPA Revised MAP for accreditation under the TSCA Title 11 as self-certified by Trainer 8/5/97

Required by Connecticut Regulations 19a-332-21

SUPERIOR INDUSTRIES LLC
342 Carter Lane
Southington, CT. 06489
860-620-1133 (voice)
860-620-1134 (fax)

Examination Date: June 7, 2008
Expiration Date: June 7, 2009
Certificate Number: SWR-528-37-4673-08

Earl R. Clark, Training Director

Superior Industries LLC

SUPERIOR INDUSTRIES L.L.C.

Committed to a Clean Environment

Certificate of Completion

Awarded to

Carlos Alejandro Melendez

(SSN 528-37-4673) (DOB 1-15-81)

Has completed a 32 Hour 4 day Approved Course of Instruction in Asbestos Abatement Removal and Disposal (AARD)

Worker Initial - Spanish

July 23, 2003 through July 26, 2003

Required by OSHA and the EPA Revised MAP for accreditation under the TSCA Title 11 as self-certified by Trainer 8/5/97

Required by Connecticut Regulations 19a-332-21

SUPERIOR INDUSTRIES LLC
342 Carter Lane
Southington, CT. 06489
860-620-1133 (voice)
860-620-1134 (fax)

Examination Date: July 26, 2003
Expiration Date: July 26, 2004
Certificate Number: 528-37-4673-03

Earl R. Clark, Training Director

Concentra Medical Centers (CT)

701 Main Street EAST HARTFORD, CT 06108
Phone: (860) 289-5561 Fax: (860) 291-1895

EMPLOYER AUTHORIZATION AND INFORMATION FOR RESPIRATORY EVALUATION

MPLOYER TO COMPLETE THE FOLLOWING :

nployee Name: Melendez, Carlos A.

nployer: Petco Insulation Co

Address:
436 Hillside Ave.

HARTFORD CT 06106

Employee SSN: 528-37-4673

ieck Type of Respirator(s) To Be Used (Check ✓ALL that apply)

- ☐ Air-purifying (non-powered) ☐ Air-purifying (powered)
- ☐ Atmosphere supplying Respirator
- ☐ Combination air-line and SCBA
- ☐ Continous-Flow Respirator
- ☐ Supplied-Air Respirator
- ☐ Open Circuit SCBA ☐ Closed Circuit SCBA
- ☐ Dust Mask ☐ 1/2 Face with Canisters ☐ Full Face with Canisters

lake: _____ Model: _____ Cartridge: _____

ecial Work Conditions
heck ✓ALL That Apply When Wearing Respirator)

- ☐ High Places ☐ Enclosed Places ☐ Protective Clothing
- ☐ Temperature Extremes ☐ Mostly Cold ☐ Mostly Hot
- ☐ Other: _____

uestionare will be: ☐ HAND CARRIED ☐ MAILED ☐ OTHER

Extent of Useage (Check ✓ALL that apply)

- ☐ On a daily basis _____ Total Hours
- ☐ Occasionally - but not more than twice a week ____ Total Hours
- ☐ Rarely - or for Emergency situations only ____ Total Hours

Expected Physical Effort Required (Check ✓ALL that apply)

☐ Light ☐ Moderate ☐ Heavy

Exposure to Hazardous Materials (Check ✓ALL that apply)

- ☐ Arsenic ☐ Benzene
- ☐ Coke Oven ☐ Cotton Seed / Dust
- ☐ Cadmium ☐ Formaldehyde
- ☐ Methylene Chloride ☐ Lead
- ☐ Textiles ☐ Chromium

Other(s): _____

EVALUATION AUTHORIZATION BY: _____
Signature of Employer Representative

O NOT WRITE BELOW THIS LINE **DO NOT WRITE BELOW THIS LINE** **DO NOT WRITE BELOW THIS LINE**

PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYER)

H' IAN WILL COMPLETE THE FOLLOWING

his -- ..t may contain confidential medical information and is intended for the designated employer contact only. The Americans with Disabilities Act (DA) imposes very strict limitations on the use of information obtained during physical examination of qualified individuals with disabilities. All information ust be collected and maintained on seperate forms, in seperate files, and must be treated as a confidential medical record, with the following exceptions:

- Supervisors and managers may be informed about necessary restrictions on the work or duties of an employee and necessary accommodations.
- First aid and safety personnel may be informed, when appropriate, if the disability might require emergency treatment.

ased upon my findings, I have determined that this individual (Check ✓ALL that apply)

- ☐ Employee must schedule a medical examination with Concentra Medical Centers (CT) prior to respirator approval and usage.
- ☑ Class I - No Restrictions on Respirator Use
- ☐ Class II - Some Specific Use Restrictions ☐ To be used for Emergency Response or Escape Only ☐ Other: _____
- ☐ Class III - Respirator Use is NOT PERMITTED
- ☐ Further Testing / Evaluation is Required. [2]
- ☐ Fit Test Required ☐ Fit Test Performed Satisfactorily
- ☐ Fit Test Performed Unsatisfactorily ☐ Fit Test NOT Performed at: Concentra Medical Centers (CT
- ☐ Special prescription eyewear needed to accommodate respirator ☐ Special prescription eyewear needed to accommodate respirator
- ☐ Facial hair needs to be shaved to assure tight seal on certain face masks.

[1] Physician or other Licensed Healthcare Professional

[2] Employee must seek further medical evaluation by a private physician who must submit a report to Concentra Medical Centers (CT) of his/her findings to

Check ✓ ALL that apply)

- ☑ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☐ The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees would be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☑ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from sures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer utable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Physician's Signature

16693-CT
Physician's License Number (Optional in Most States)

Physician's Name (Printed)

9/28/07
Date of Exam

9/28/08
Expires On

RESPIRATOR FIT TEST

TYPE OF FIT TEST

QUANTITATIVE	
QUALITATIVE	X
IRRITANT SMOKE	X

SIGNATURES

DATE	BRAND	MODEL	TYPE	SIZE	TESTER	EMPLOYEE
5-14-68	NORTH	7700 30m	1/2 FACE	MES	[illegible]	Carlos M.

By my signature, I affirm that I only wear those brands, type, models and sizes of respirators for which I have passed fit tests

PASS

EMPLOYEE NAME CARLOS MELENDEZ

EMPLOYEE SS # —

SIGNATURE Carlos M.

7-18-07 JR

APPENDIX D
DAILY PROJECT SIGN-IN SHEETS

TRC

DAILY SIGN-IN SHEET

CLIENT CT-DPW

JOB # 106957-9130-0003

SITE MYSTIC EDUCATION CTR.

TRC REPRESENTATIVE H. HERNANDEZ / E. Hastedt

NOTE: ALL PERSONS ENTERING & EXITING THE WORK AREA MUST SIGN IN & OUT

DATE	NAME	COMPANY	DESTINATION	PROTECTIVE CLOTHING	PURPOSE OF ENTRY	TIME IN	TIME OUT
9/18/08	GERALDO SANTIAGO	PETCO	A144/ELEV. STAGES	ALL OSHA REQ'D	PREP	0800	13:30
	CARLOS MELENDEZ	↓	↓	↓	↓	↓	↓
9/19/08	GERALDO SANTIAGO					0700	15:15
	CARLOS MELENDEZ	↓	↓	↓	↓	↓	↓
9/22/08	Ricky santeago	Petco	A136 - A137 stairs	All OSHA Req'd	prep / Removal	0700	1530
	carlos melendez	↓	↓	↓	↓	↓	↓
9/23/08	Ricky santiago	Petco	A136 - A137 stairs	All OSHA Req'd	Removal	0700	1530
	carlos melendez	↓	↓	↓	↓	↓	↓
9/24/08	Ricky santiago	Petco	G104 - G105 stairs	All OSHA Req'd	prep	0700	1530
	carlos melendez	↓	↓	↓	↓	↓	↓
9/25/08	Ricky santiago	Petco	G104-G105 / G106-G107	All OSHA Req'd	prep / Removal	0700	1515
	carlos melendez	↓	↓	↓			
9/26/08	Ricky santiago	Petco	Tear down	All OSHA Req'd	Tear down / load Truck	0600	1430
	carlos melendez	↓	↓	↓	↓	↓	↓

APPENDIX E
CONTRACTOR OSHA PERSONNEL AIR SAMPLING RESULTS

Company: Petco
88 Farwell Street
West Haven, Connecticut 06516-0961

Hygienist Brian

83183

Type of Project

☑ Asbestos Abatement ☐ Lead Abatement

Date Collected 9-22-08
Job Name Mistic Education, Administration Girls Building Room A-144
Job Number 201-3107
Project Foreman Ricky Santiago

Type of Removal

☐ Pre-clean ☐ Set Up ☐ Encapsulation
☐ Pipe ☐ Fittings ☐ Transite Board
☐ Boiler ☐ Tank ☐ Sprayed-On
☐ Breeching ☐ Duct ☑ Floor Tile
☐ Ceiling Tile ☐ Bag Out ☐ Blastrac
☐ Glovebag ☑ Mastic Removal
☐ Other

Calibration

☐ Final Clearance Air Test QC Analyst K. Williams 10/2/08
☐ Personal Sample
☐ Work Sample Lab Supr. K. Williams

Sample Number	Worker Name/S.S. Number / Work Function	Respirator Type/Brand	Time On	Time Off	Flow (L/Min)	Pump No.	Fiber Concentration	T.W.A.
1	~~Blank~~	~~½ Face NoshA~~					0/100	
2	~~Blank~~	~~½ Face NoshA~~					0/100	
3	Carlos Melendez	½ Face NoshA	11:15 AM	11:30 AM	2.0		1/100 = NdL 0.090 ✓	
4	Carlos Melendez	½ NoshA	11:30 AM	2.30pm	2.0		2/100 = NdL 0.007 ✓	

Analyst K. Williams 10/2/08

Company: Petco
88 Farwell Street
West Haven, Connecticut 06516-0961

Hygienist Brian

83183

Type of Project

- [x] Asbestos Abatement
- [ ] Lead Abatement

Type of Removal

- [ ] Pre-clean
- [ ] Pipe
- [ ] Boiler
- [ ] Breeching
- [ ] Ceiling Tile
- [ ] Glovebag
- [ ] Other
- [ ] Set Up
- [ ] Fittings
- [ ] Tank
- [ ] Duct
- [ ] Bag Out
- [ ] Encapsulation
- [ ] Transite Board
- [ ] Sprayed-On
- [x] Floor Tile
- [ ] Blastrac
- [x] Mastic Removal

Date Collected 9-23-08
Job Name Mistic Education Girls Building
Job Number 201-3107
Project Foreman Ricky SANTIAGO

Calibration

- [ ] Final Clearance Air Test
- [x] Personal Sample
- [ ] Work Sample

QC Analyst K. Williams 10/2/08

Lab Supv: K. Williams

Sample Number	Worker Name/S.S. Number / Work Function	Respirator Type/Brand	Time On	Time Off	Flow (L/Min)	Pump No.	Fiber Concentration	T.W.A.
5	BLANK						0/100 —	
6	BLANK						0/100 —	
7	Carlos Melendez	½ Face NoshA	8:30AM	8:45AM	2.0		2/100 = ✓ ND < 0.090	QC = 0/100
8	Carlos Melendez	½ Face NoshA	8:45AM	1:35pm	2.0		2/100 = ✓ ND < 0.009	

Read by K. Williams 10/2/08 1600

APPENDIX F
TRC CERTIFICATIONS/LICENSES

0007273 FP **PRSRT T9 D 0964 06482
ERIC J. HASTEDT
11 SAND HILL ROAD
SANDY HOOK CT 06482

[redacted]
Attached you will find your validated license/certificate for the coming year. Should you have any questions about your license/certificate renewal, please do not hesitate to write or call.

Department of Public Health (860) 509-7603
P.O. Box 340308
M.S.#12MQA http://www.dph.state.ct.us
Hartford, CT 06134-0308

Sincerely,

J Robert Galvin, MD, MPH, MBA

J. ROBERT GALVIN, MD, MPH, COMMISSIONER
DEPARTMENT OF PUBLIC HEALTH

INSTRUCTIONS:

1. Detach and sign each of the cards on this form.
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.
4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A
ASBESTOS CONSULTANT-PROJECT MONITOR

ERIC J. HASTEDT

LICENSE NO.
000612
CURRENT THROUGH
04/30/09
VALIDATION NO.
03-658736

SIGNATURE COMMISSIONER

EMPLOYER'S COPY
STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
ERIC J. HASTEDT

VALIDATION NO.	LICENSE NO.	CURRENT THROUGH
03-658736	000612	04/30/09

PROFESSION
ASBESTOS CONSULTANT-PROJECT MONITOR

SIGNATURE COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

Eric Hastedt

has successfully completed the

8 Hour Asbestos Project Monitor Refresher Training

conducted by
ATC Associates Inc.
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Gregory J. Morsch
Principal Instructor

August 19, 2008
Date of Course

August 19, 2009
Expiration Date

Gregory J. Morsch
Regional Manager

PMR-1040
Certificate Number

August 19, 2008
Examination Date

AIHA

Asbestos Analysts Registry

Laboratory Quality Assurance Programs

Retain For Your Records

February 6, 2008

Organization ID: **100122**
Analyst ID: **8998**

TRC Environmental Corporation
Eric Hastedt
21 Griffin Road North
Windsor, CT 06095

Dear Mr. Hastedt,

Congratulations! The American Industrial Hygiene Association (AIHA) Analytical Accreditation Board (AAB) has approved your listing on the Asbestos Analyst Registry (AAR) per AAR Policy, Article IV, Sections 4.2.13 and 4.4.13-4.1.16. This Board Approval takes effect **February 4, 2008**. You will be listed on the AIHA website as an Asbestos Analysts Registry (AAR) Board Approved Analyst within the next 10 business days.

http://www.aiha.org/1documents/lab/AARAnalysts.pdf.

Your Board Approval status will remain current as long as you maintain two or fewer outliers in the two most current, consecutive Asbestos Analytical Testing (AAT) rounds. You will automatically lose your Board Approval status if you cease analyzing AAT samples with an approved organization, or you transfer to an unapproved organization.

If you should receive more than two outliers in two consecutive rounds, your AAT Performance Results report will show that you are "not acceptable" or if you lose your Board Approval status, then to regain your Board Approval status, your options are to:

1) Purchase the current round's retest and successfully override the results; or
2) Analyze the next regularly scheduled AAT round or next two consecutive AAT rounds (whichever is appropriate) with no more than 2 outliers.

If you foresee non-participation in a future AAT round, in order to retain Board Approval status, AIHA requires a written request for an excused absence from that round, before the date that the results are due for that particular round. Please note that excused absences will not be granted for two consecutive AAT rounds per AAR Policy, Article III, Section 3.9.2.

Congratulations again and thank you for your continued participation in the Asbestos Analyst Registry program. If you have any questions please do not hesitate to contact Mrs. Carter Dezio, AAR Program Specialist at 703-846-0798 or cdezio@aiha.org.

Sincerely,

Cheryl O. Morton

Cheryl Morton
Director, LQAP

American Industrial Hygiene Association 2700 Prosperity Ave., Suite 250, Fairfax, VA 22031 USA *main* +1 703-849-8888 *fax* +1 703-207-8558

0002349 FP **PRSRT TB 0 0664 06062
HILTON HERNANDEZ
144 LAUREL COURT
PLAINVILLE CT 06062

Dear Licensed/Certified Professional:
Attached you will find your [illegible] for the coming year. Should you have any questions about your license/certificate renewal, please do not [illegible] to [illegible]

Department of Public Health (800) 509-7603
P.O. Box 140308
M S #12MQA http://www.dph.state.ct.us
Hartford, CT 06134-0308

Sincerely,

J. Robert Galvin, MD, MPH, COMMISSIONER
DEPARTMENT OF PUBLIC HEALTH

INSTRUCTIONS:

1. Detach and sign each of the cards on this form.
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.
4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
HILTON HERNANDEZ

VALIDATION NO.	LICENSE NO.	CURRENT THROUGH
03-608787	000298	01/31/09

PROFESSION
ASBESTOS CONSULTANT-PROJECT MONITOR

SIGNATURE J. Robert Galvin, MD, MPH, MBA COMMISSIONER

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT-PROJECT MONITOR

HILTON HERNANDEZ

LICENSE NO.
000298
CURRENT THROUGH
01/31/09
VALIDATION NO.
03-608787

SIGNATURE J. Robert Galvin, MD, MPH, MBA COMMISSIONER

Certificate of Training

Awarded to

HILTON HERNANDEZ

For successful completion of an 8 (eight) hour

Asbestos Project Monitor Refresher Course

01/14/2008

This training was approved and given in accordance with Regulations for Connecticut State Agencies RCSA 20-440 - 1-9 and RCSA 20-441and meets the requirements for the EPA Revised MAP under TSCA Title II of 4/4/94

Presented by

Mystic Air Quality Consultants, Inc.

1204 North Road, Groton, CT 06340 (800) 247-7746

Certificate Number: APM/R16301 **Exam Grade:** 90 **Expiration Date:** 01/14/2009

Exam Date: 01/14/2008

Christopher J. Eident, CIH, CSP, RS

George Williamson, Training Director

AIHA
The Essential Source

RETAIN FOR YOUR RECORD

August 24, 1998

Hilton F. Hernandez
TRC Environmental Corporation
5 Waterside Crossing
Windsor, CT 06095

Counter ID: 7715
Organization ID: 6940

Dear Hilton F. Hernandez:

Congratulations! The American Industrial Hygiene Association (AIHA) Analytical Accreditation Board (AAB) has approved your listing in the Asbestos Analysts Registry (AAR). This board approval takes effect today and is current as long as you maintain two or less outliers in the two most current consecutive Asbestos Analytical Testing (AAT) rounds. This is the only time AIHA requires that you be on the AAB Ballot.

If you should receive more than two outliers in two consecutive rounds, your AAT Performance Results report will show that you are "not acceptable." To regain your board approval, your options are:

1) Purchase the current round retest to override the results, or:

2) Analyze the next two AAT rounds and again meet board approval qualifications.

If you foresee non-participation in a future AAT round, AIHA requires a letter requesting a suspension from that round to retain the board approval status <u>before</u> the beginning of the suspended round.

For your information:

1) *You automatically lose board approval board approval status when you cease analyzing AAT samples with your organization.*

2) *If you transfer to an unapproved organization, you immediately lose board approval status.*

Congratulations again and thank you for your continued interest in the Asbestos Analysts Registry program. If you have any questions concerning your status, please call me.

Sincerely,

KimE Banks
Laboratory Program Specialist

KEB

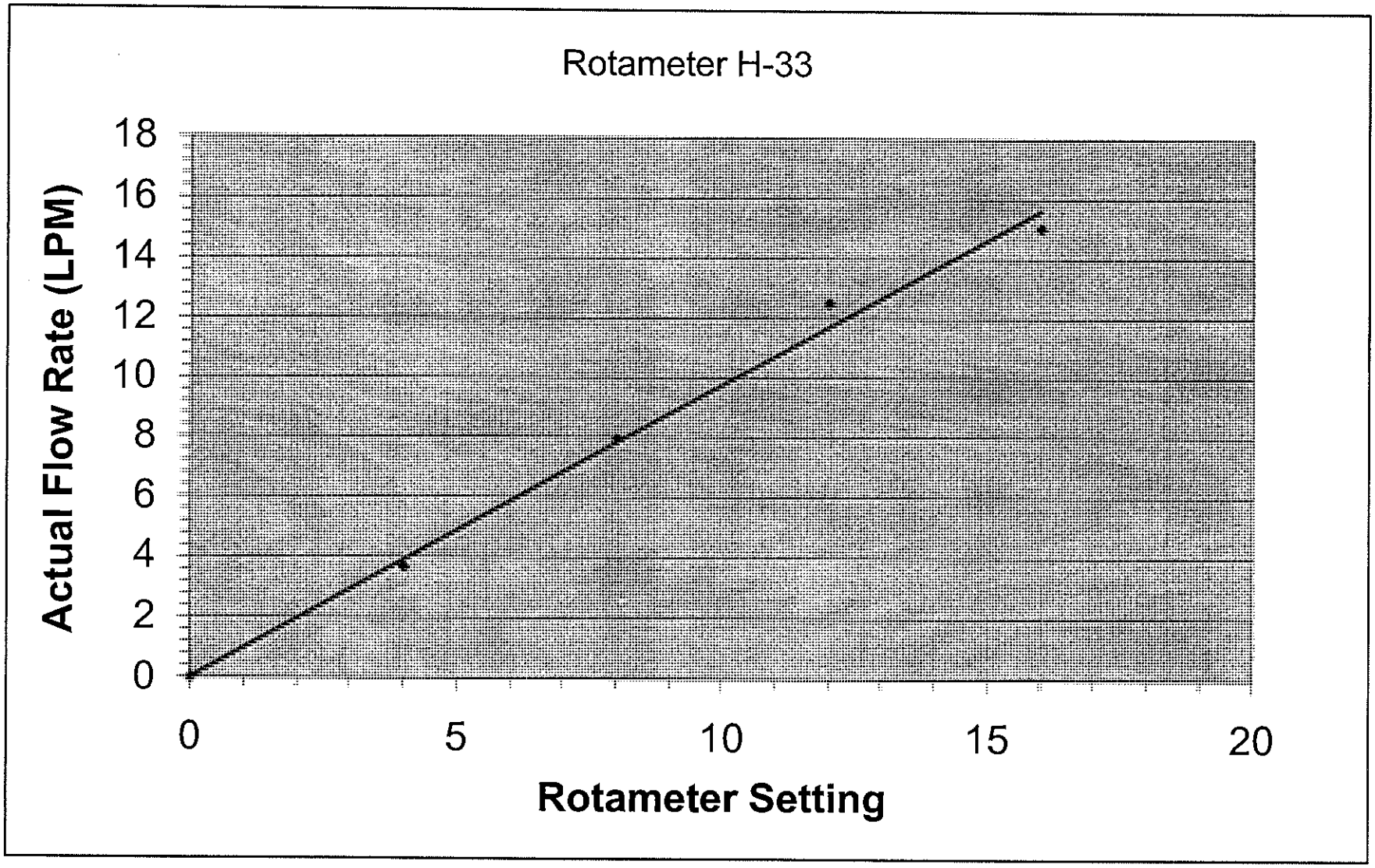
American Industrial Hygiene Association
2700 Prosperity Ave., Suite 250, Fairfax, VA 22031
(703) 849-8888 (703) 207-3561 fax
InfoFax Service Line (703) 641-INFO or Internet: infonet@aiha.org

APPENDIX G
EQUIPMENT CALIBRATION DATA

Rotameter H-33

Calibrated on: 05 May 2008
Due: 05 November 2008
By: K. Williamson

Rotameter Setting	Avg. Flow
0	0
4	3.7
8	7.9
12	12.5
16	15.0



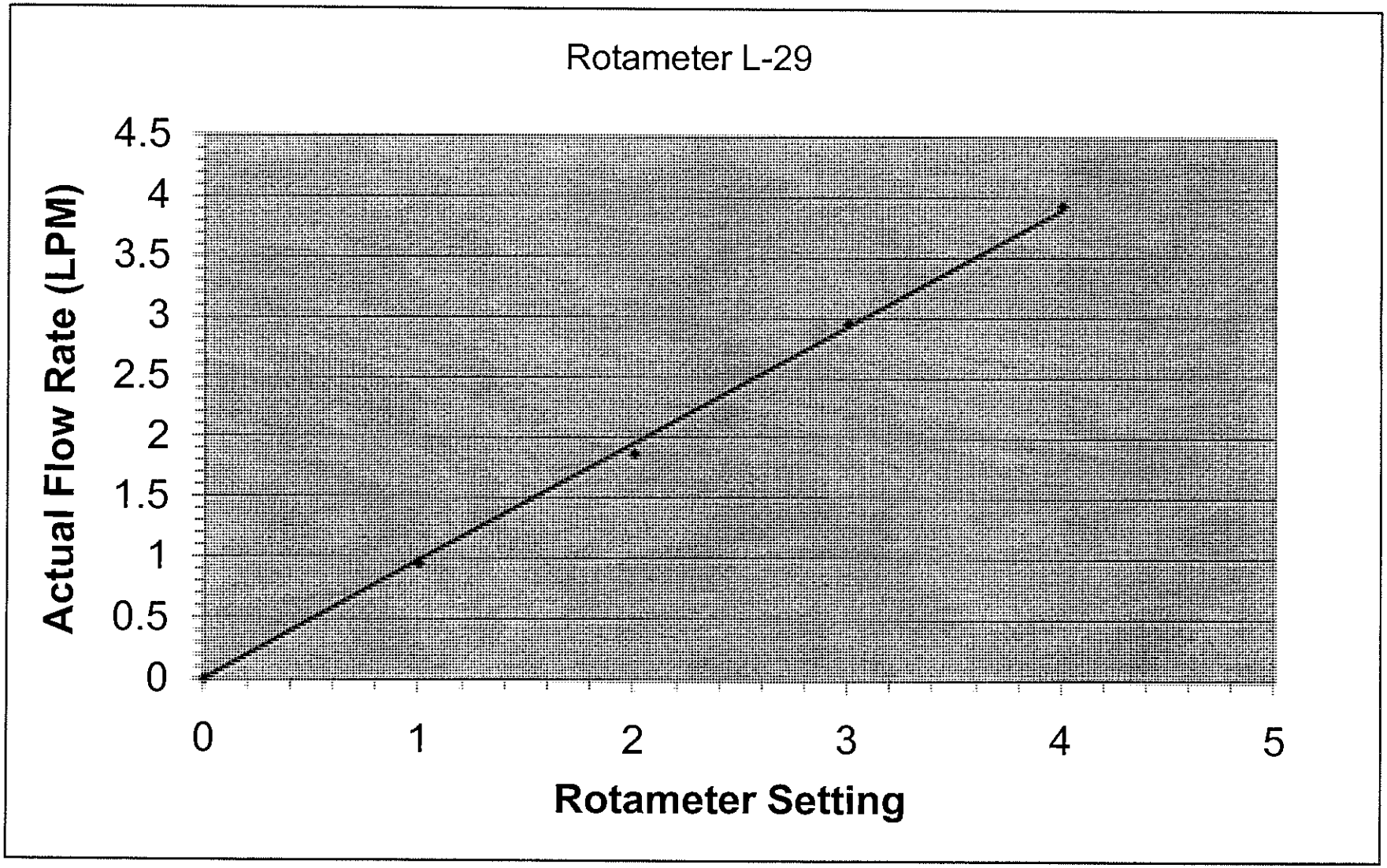
Rotameter calibrated using center of ball

H:\Lab\Rotameters\2008\High Flow\Rotameter H-33.xls

Rotameter L-29

Rotameter Setting	Avg. Flow
0	0
1	0.95
2	1.86
3	2.95
4	3.93

Calibrated on: 18 February 2008
By: K. Williamson
Due: 06 May 2008

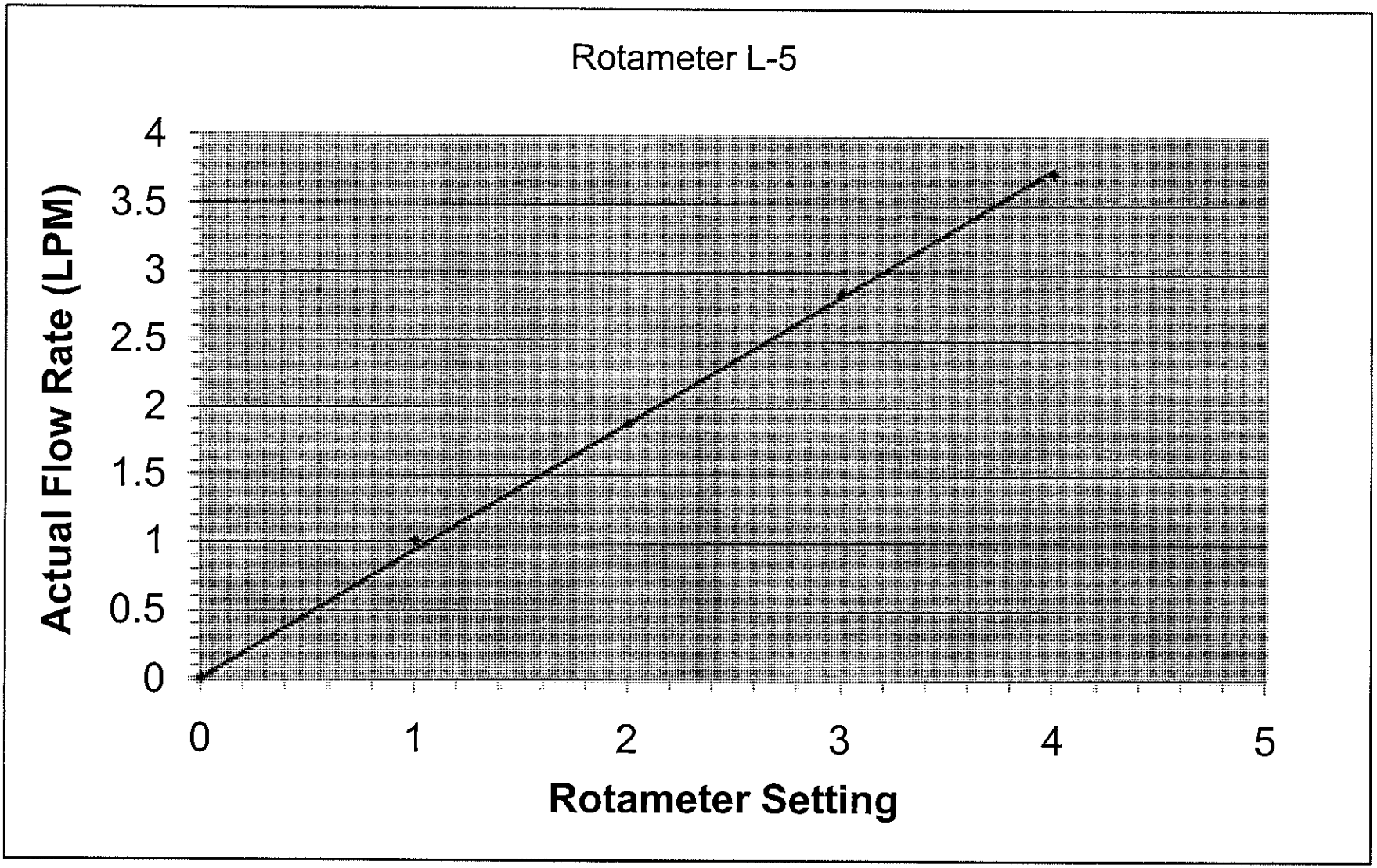


Rotameter calibrated using center of ball

Rotameter L-5

Rotameter Setting	Avg. Flow
0	0
1	1.01
2	1.88
3	2.84
4	3.73

Calibrated on: 05 May 2008
Due: 05 November 2008
By: K. Williamson



Rotameter calibrated using center of ball

H:\Lab\Rotameters\2008\Low Flow\Rotameter L-5.xls

APPENDIX H
LABORATORY ANALYTICAL CERTIFICATIONS

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

TRC ENVIRONMENTAL CORPORATION

LOCATED AT 21 Griffin Road North IN Windsor, CT 06095

AND REGISTERED IN THE NAME OF Eric Plimpton

THIS CERTIFICATE IS ISSUED IN THE NAME OF Kathleen Williamson WHO HAS BEEN DESIGNATED BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

ASBESTOS
AIR-FIBER COUNTING - PCM
BULK IDENTIFICATION - PLM

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES December 31, 2009 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 4th DAY OF January, 2008

Registration No.

PH- 0426

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION

AIHA

Protecting Worker Health

The American Industrial Hygiene Association

acknowledges that

TRC Environmental Corporation

21 Griffin Road North, Windsor, CT 06095

Laboratory ID: 100122

has fulfilled the requirements of the AIHA Laboratory Quality Assurance Programs (LQAP), thereby, conforming to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories.* The above named laboratory, along with all premises from which key activities are performed, as listed above, have been accredited by AIHA in the following:

ACCREDITATION PROGRAMS

✓	**INDUSTRIAL HYGIENE**	Accreditation Expires: 8/1/2010
☐	**ENVIRONMENTAL LEAD**	Accreditation Expires:
☐	**ENVIRONMENTAL MICROBIOLOGY**	Accreditation Expires:
☐	**FOOD**	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation.** Continued accreditation is contingent upon successful on-going compliance with LQAP requirements. This certificate is not valid without the attached **Scope of Accreditation.** Please review the AIHA website for the most current status of the scope of accreditation.

Laura R. McMahon

Laura R. McMahon
Chairperson, Analytical Accreditation Board

Lindsay E. Booher

Lindsay E. Booher, CIH, CSP
President, AIHA

Date Issued: 08/01/2008

CELEBRATING 30 Thirty Years of AIHA Accrediting Labs
1974 - 2004

SOUND DATA SMART DECISIONS
LABORATORY QUALITY ASSURANCE PROGRAMS

AIHA
Your Essential Connection: Advancing Occupational and Environmental Health and Safety Globally
2700 Prosperity Ave., Suite 250, Fairfax, VA 22031 U.S.A.
(703) 849-8888; Fax (703) 207-3561; www.aiha.org

AIHA Laboratory Quality Assurance Programs
SCOPE OF ACCREDITATION

TRC Environmental Corporation
21 Griffin Road North, Windsor, CT 06095

Laboratory ID: **100122**
Issue Date: 08/01/2008

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or revocation. A complete listing of currently accredited Industrial Hygiene laboratories is available on the AIHA website at: http://www.aiha.org/Content/LQAP/accred/AccreditedLabs.htm

Industrial Hygiene Laboratory Accreditation Program (IHLAP)

Initial Accreditation Date: 09/01/1984

IHLAP Category	Field of Testing (FoT)	Method	Method Description *(for internal methods only)*
Core Program Testing	Polarized Light Microscopy (PLM)	EPA/600/R-93/116	
	Phase Contrast Microscopy (PCM)	NIOSH 7400	

The laboratory participates in the following AIHA* or AIHA-approved proficiency testing programs:

- ☐ Metals*
- ☐ Silica*
- ✓ Asbestos*
- ☐ Bulk Asbestos*
- ☐ Beryllium*
- ☐ Organic Solvents*
  - ☐ Diffusive Sampler (3M)*
- ☐ Diffusive Sampler (SKC)*
- ☐ Diffusive Sampler (AT)*
- ☐ WASP[1] (Formaldehyde)
- ☐ WASP[1] (Thermal Desorption Tubes)
- ☐ Pharmaceutical Round Robin
- ☐ Compressed/Breathing Air Round Robin
- ✓ NVLAP (determined at the time of site assessment)

[1] Workplace Analytical Scheme for Proficiency

APPENDIX I
ASBESTOS AIR SAMPLE ANALYSIS AND CHAIN-OF-CUSTODY DATA

TRC
21 Griffin Road North
Windsor, CT 06095
860-298-9692

Edition April 2008
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 106957-9130-0003 Date: 9/18/08 Page 1 of 1

Client: CT-DPW Sampler Print: HELEN HERNANDEZ Signature: [signature] Date: 9/18/08

Site: MYSTIC EDUCATION CTR. Analyst Print: HELEN HERNANDEZ Signature: [signature] Date Analyzed: 9/19/08

Address: 240 OREAL SCHOOL ROAD QC Analyst Print: K. Williamson Signature: K. Williamson Date Analyzed: 10/2/08

MYSTIC, CT Lab Supervisor Print: K. Williamson Signature: K. Williamson Date Issued:

Contact/Name: H. HERNANDEZ Phone (860) 862-7296 Rotometer No.: L-29 Date of Calibration: 5/5/08 Lab No. 36051

Microscope No. JM 005 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: _____
Issue 2 8/15/94

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.369	0.608
20.5 to 50/100	0.296	0.502
>50/100	0.205	0.454

Sample No.	01-M	02-M	03-M	04-M	05-M		
Sampling Location/Comments	BLANKS		A144 / ELEV. STAIRS PREP 1ST FLOOR HALL	UPPER 2ND LANDING FR	BSMT LANDING.		
Type of Sample			2	2	2		
Pump Number							
Start Time/Stop Time			0940 13:35	0941 13:36	0942 13:37		
Total Time (min)			235	235	235		
Flow Rate			2.5 2.4	2.5 2.4	2.5 2.4		
Total Volume (l)			575.75	575.75	575.75		
FB __ BFB FL BFL	0/100	0/100	0/100	2/100	0/100		
Filter Fiber Conc. (fibers/mm²)			0	2.5	0		
Airborne Fiber Conc. (fibers/cc)			ND< 0.005 ✓	ND< 0.005 ✓	ND< 0.005 ✓		

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: [signature] Date _____ Time _____
Received By: K. Williamson Date 10/2/08 Time 1600
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
CT#PH-0426 MA#AA000052 NY#10980 RI#AAL-007C3
ME#LB-0071 VA#3333000283 TX#300354 VT#AL014538
AIHA/PAT#100122

Condition of Sample: OK
Acceptable: Y ✓ N ____
Comments: _____

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
04	1/100	KW 10/2/08	LWS

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

Griffin Lane North
Windsor, CT 06095
860-298-9692

Edition 2008
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 106957-9130-0003 Date: 9/19/08 Page 1 of 1

Client: CT-DPW

Sampler Print: HILTON HERNANDEZ Signature: [signature] Date: 9/19/08

Site: MYSTIC ED. CTR.

Analyst Print: HILTON HERNANDEZ Signature: [signature] Date Analyzed: 9/19/08

Address: 240 ORAL SCHOOL RD.

MYSTIC, CT

QC Analyst Print: [signature] Signature: K. Williams Date Analyzed: 10/2/08

Lab Supervisor Print: [signature] Signature: K. Williams Date Issued:

Contact/Name: H. HERNANDEZ Phone: (860) 462-7296

Rotometer No.: L-29 Date of Calibration: 5/5/08 Lab No. 36051

Microscope No. 7M0005 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: _____

Issue 2 8/15/94

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.369	0.608
20.5 to 50/100	0.296	0.502
>50/100	0.205	0.454

Sample No.	06-M	07-M	08-M	09-M	10-M		
Sampling Location/Comments	BLANKS		A136-B137 STAIRS PREP				
			1ST FLOOR HALL	UPPER 2ND FLOOR LANDING	BSMT HALL/RM.		
Type of Sample			2	2	2		
Pump Number							
Start Time/Stop Time			0920 15:00	0921 15:01	0922 15:02		
Total Time (min)			340	340	340		
Flow Rate			2.5 2.4	2.5 2.3	2.5 2.4		
Total Volume (l)			833	816	833		
FB __ BFB FL BFL	0/100	0/100	2/100	16/100	2/100		
Filter Fiber Conc. (fibers/mm²)			2.55	204	2.5		
Airborne Fiber Conc. (fibers/cc)			NDL 0.003 ✓	0.0096 ✓	NDL 0.003 ✓		

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: [signature] Date _____ Time _____
Received By: K. Williams Date 10/2/08 Time 1600
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
CT#PH-0426 MA#AA000052 NY#10980 RI#AAL-007C3
ME#LB-0071 VA#3333000283 TX#300354 VT#AL014538
AIHA/PAT#100122

Condition of Sample: ok
Acceptable: Y ✓ N _____
Comments: _____

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
09-M	15/100	HH 9/19	F

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

21 Griffin Road North
Windsor, CT 06095
860-298-9692

April 2008
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 106957.9130.0003 Date: 9/22/08 Page 1 of 1

Client: CT - DPW

Site: Mystic Education CTR

Address: 240 Oral School Rd
Mystic, CT

Contact/Name: E. Hastedt Phone: (860)-817-8579

Sampler Print: E. Hastedt Signature: Eric J. Hastedt Date: 9/22/08

Analyst Print: E. Hastedt Signature: Eric J. Hastedt Date Analyzed: 9/23/08

QC Analyst Print: K. Williamson Signature: K. Williamson Date Analyzed:

Lab Supervisor Print: K. Williamson Signature: K. Williamson Date Issued:

Rotometer No.: L-5 Date of Calibration: 5/5/08 Lab No. 360051

Microscope No. 672708 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: _____
Issue 2 8/15/94

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.369	0.608
20.5 to 50/100	0.296	0.502
>50/100	0.205	0.454

Sample No.	11	12	13	14			
Sampling Location/Comments	A 136 - A 137 stairs 1st floor Hall	A 136 - A137 stair Basement Rm	Field Blanks				
Type of Sample	2	2					
Pump Number	–	–					
Start Time/Stop Time	0800 | 1410	0805 | 1415					
Total Time (min)	370	370					
Flow Rate	2.5 | 2.4	2.5 | 2.5					
Total Volume (l)	906.5	925					
FB — BFB / FL — BFL	4/100	9/100	0/100	0/100			
Filter Fiber Conc. (fibers/mm²)	5	11	–	–			
Airborne Fiber Conc. (fibers/cc)	NdL 0.003	0.005	–	–			

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Eric J. Hastedt Date _____ Time _____
Received By: K. Williamson Date 10/2/08 Time 1600
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

Condition of Sample: OK
Acceptable: Y ✓ N ____
Comments: _____

TRC Laboratory Asbestos Analytical Certifications:
CT#PH-0426 MA#AA000052 NY#10980 RI#AAL-007C3
ME#LB-0071 VA#3333000283 TX#300354 VT#AL014538
AIHA/PAT#100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
12	7/100	KW 10/2/08	KW

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

21 Grimin Road North
Windsor, CT 06095
860-298-9692

April 2008
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 106957 . 9130 . 0003 Date: 9/23/08 Page 1 of 2

Client: CT - DPW

Site: Mystic Education CTR

Address: 240 Oral School Rd
Mystic, CT

Contact/Name: Eric Hastedt Phone: 860-817-8579

Sampler Print: E. Hastedt Signature: Eric J. Hastedt Date: 9/23/08

Analyst Print: E. Hastedt Signature: Eric J. Hastedt Date Analyzed: 9/23/08

QC Analyst Print: K. Williams Signature: K. Williams Date Analyzed:

Lab Supervisor Print: K. Williams Signature: K. Williams Date Issued:

Rotometer No.: H-33 Date of Calibration: 5/5/08 Lab No. 310051

Microscope No. 672708 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: _____
Issue 2 8/15/94

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.369	0.608
20.5 to 50/100	0.296	0.502
>50/100	0.205	0.454

Sample No.	15		16		17		18		19		20		21	
Sampling Location/Comments	A144 Stair EIV.		→								Field Blanks			
Type of Sample	6		6		6		6		6					
Pump Number	—		—		—		—		—					
Start Time/Stop Time	0800	0920	0800	0920	0800	0920	0800	0920	0800	0920				
Total Time (min)	80		80		80		80		80					
Flow Rate	15	15	15	15	15	15	15	15	15	15				
Total Volume (l)	1200		1200		1200		1200		1200					
FB — BFB FL — BFL	3/100		9/100		5/100		6/100		7/100		0/100		0/100	
Filter Fiber Conc. (fibers/mm²)	4		11		6		8		9		—		—	
Airborne Fiber Conc. (fibers/cc)	ND< .002 ✓		0.004 ✓		ND< .002 ✓		0.002 ✓		0.003 ✓		—		—	

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Eric J. Hastedt Date _____ Time _____
Received By: K. Williams Date 10/2/08 Time 1600
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
CT#PH-0426 MA#AA000052 NY#10980 RI#AAL-007C3
ME#LB-0071 VA#3333000283 TX#300354 VT#AL014538
AIHA/PAT#100122

Condition of Sample: OK
Acceptable: Y ✓ N ____
Comments: _____

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
18	5/100	9/23/08	F
19	6/100	KW 10/2/08	Lab

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

21 Griffin Road North
Windsor, CT 06095
860-298-9692

April 2008
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 106957.9130.0003 Date: 9/23/08 Page 2 of 2

Client: CT - DPW

Site: Mystic Education CTR

Address: 240 Oral School Rd.
Mystic, CT

Contact/Name: Eric Hastedt Phone: 860-817-8579

Sampler Print: E. Hastedt Signature: Eric J. Hastedt Date: 9/23/08

Analyst Print: E. Hastedt Signature: Eric J. Hastedt Date Analyzed: 9/24/08

QC Analyst Print: K. Williamson Signature: K. Williamson Date Analyzed:

Lab Supervisor Print: K. Williamson Signature: K. Williamson Date Issued:

Rotometer No.: L-5 Date of Calibration: 5/5/08 Lab No. 360051

Microscope No. 672708 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☑ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☑ AHERA ☐ Other: _____
Issue 2 8/15/94

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.369	0.608
20.5 to 50/100	0.296	0.502
>50/100	0.205	0.454

Sample No.	22	23						
Sampling Location/Comments	O/S Decon A136-A137	Hallway Near A136 - A137						
Type of Sample	4	4						
Pump Number	—	—						
Start Time/Stop Time	0820 | 1430	0823 | 1435						
Total Time (min)	370	372						
Flow Rate	2.5 | 2.5	2.5 | 2.5						
Total Volume (l)	925	930						
FB ___ BFB FL BFL	12/100	14/100						
Filter Fiber Conc. (fibers/mm²)	15	18						
Airborne Fiber Conc. (fibers/cc)	0.006 ✓	0.007 ✓						

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Eric J. Hastedt Date _____ Time _____
Received By: K. Williamson Date 10/2/08 Time 1600
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

Condition of Sample: OK
Acceptable: Y ✓ N ____
Comments: _____

TRC Laboratory Asbestos Analytical Certifications:
CT#PH-0426 MA#AA000052 NY#10980 RI#AAL-007C3
ME#LB-0071 VA#3333000283 TX#300354 VT#AL014538
AIHA/PAT#100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

Windsor, CT 06095
860-298-9692

2008
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 106957.9130.0003 Date: 9/24/08 Page 1 of 2

Client: CT - DPW

Site: Mystic Education CTR

Address: 240 oral school Rd.
Mystic, CT

Contact/Name: Eric Hastedt Phone: 860-817-8579

Sampler Print: E. Hastedt Signature: Eric J. Hastedt Date: 9/24/08

Analyst Print: E. Hastedt Signature: Eric J. Hastedt Date Analyzed: 9/24/08

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed:

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued:

Rotometer No.: H-33 Date of Calibration: 5/5/08 Lab No. 36051

Microscope No. 672708 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☑ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☑ AHERA ☐ Other: _____
Issue 2 8/15/94

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)

Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.369	0.608
20.5 to 50/100	0.296	0.502
>50/100	0.205	0.454

Sample No.	24	25	26	27	28	29	30
Sampling Location/Comments	A136- A137 stair elevation + Basement floor.	→				Field Blanks	
Type of Sample	6	6	6	6	6		
Pump Number	—	—	—	—	—		
Start Time/Stop Time	0830 0950	0830 0950	0830 0950	0830 0950	0830 0950		
Total Time (min)	80	80	80	80	80		
Flow Rate	15 15	15 15	15 15	15 15	15 15		
Total Volume (l)	1200	1200	1200	1200	1200		
FB — BFB FL — BFL	5/100	8/100	6/100	5/100	4/100	0/100	0/100
Filter Fiber Conc. (fibers/mm²)	6	10	8	6	5	—	—
Airborne Fiber Conc. (fibers/cc)	Nd<0.002 ✓	0.003 ✓	0.002 ✓	Nd<0.002 ✓	Nd<0.002 ✓	—	—

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Eric J. Hastedt Date _____ Time _____
Received By: K Williamson Date 10/2/08 Time 1600
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
CT#PH-0426 MA#AA000052 NY#10980 RI#AAL-007C3
ME#LB-0071 VA#3333000283 TX#300354 VT#AL014538
AIHA/PAT#100122

Condition of Sample: OK
Acceptable: Y ✓ N ____
Comments: _____

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
27	6/100	9/24/08	F
28	3/100	KW 10/2/08	Lab

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

Windsor, CT 06095
860-298-9692

Ed. April 2008
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 106957.9130.0003 Date: 9/24/08 Page 2 of 2

Client: CT - DPW Sampler Print: E. Hastedt Signature: Eric J. Hastedt Date: 9/24/08

Site: Mystic Education CTR Analyst Print: E. Hastedt Signature: Eric J. Hastedt Date Analyzed: 9/25/08

Address: 240 Oral School Rd. QC Analyst Print: K. Williams Signature: K. Williams Date Analyzed: 10/2/08

Mystic, CT Lab Supervisor Print: K. Williams Signature: K. Williams Date Issued:

Contact/Name: Eric Hastedt Phone: 860-817-8579 Rotometer No.: L-5 Date of Calibration: 5/5/08 Lab No. 36051

Microscope No. 672708 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☑ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☑ AHERA ☐ Other: _____

Issue 2 8/15/94

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.369	0.608
20.5 to 50/100	0.296	0.502
>50/100	0.205	0.454

Sample No.	31	32	33				
Sampling Location/Comments	0/S G-104 in Hallway	G-104 - G-105 Exit stair well elevation	G106 - G107 Exit stairs				
Type of Sample	2	2	2				
Pump Number	—	—	—				
Start Time/Stop Time	0845 / 1400	0847 / 1404	1100 / 1409				
Total Time (min)	315	317	189				
Flow Rate	2.5 / 2.4	2.5 / 2.4	2.5 / 2.5				
Total Volume (l)	771.75	776.65	472.5				
FB — BFB FL BFL	15/100	4/100	10/100				
Filter Fiber Conc. (fibers/mm²)	19	5	13				
Airborne Fiber Conc. (fibers/cc)	0.010 ✓	ND< 0.003 ✓	0.010 ✓				

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Eric J. Hastedt Date _____ Time _____
Received By: K. Williams Date 10/2/08 Time 1600
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
CT#PH-0426 MA#AA000052 NY#10980 RI#AAL-007C3
ME#LB-0071 VA#3333000283 TX#300354 VT#AL014538
AIHA/PAT#100122

Condition of Sample: OK
Acceptable: Y ✓ N ____
Comments: _____

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

Windsor, CT 06095
860-298-9692

2008
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AIR SAMPLE ANALYSIS REPORT

Project No.: 106957.9130.0003 Date: 9/25/08 Page 1 of 2

Client: CT-DPW

Site: Mystic Education CTR

Address: 240 oral school Rd, Mystic, CT

Contact/Name: Eric Hastedt Phone: 860-817-8579

Sampler Print: E. Hastedt Signature: Eric L. Hastedt Date: 9/25/08

Analyst Print: E. Hastedt Signature: Eric L. Hastedt Date Analyzed: 9/26/08

QC Analyst Print: K. Williamson Signature: K. Williamson Date Analyzed:

Lab Supervisor Print: K. Williamson Signature: K. Williamson Date Issued:

Rotometer No.: L-5 Date of Calibration: 5/5/08 Lab No. 360051

Microscope No. 672708 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☑ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☑ AHERA ☐ Other: _____
Issue 2 8/15/94

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.369	0.608
20.5 to 50/100	0.296	0.502
>50/100	0.205	0.454

Sample No.	34		35		36		37		38					
Sampling Location/Comments	Hallway 015 6104-6105		Top of stairs in 6104-6105		Top of stairs in 6106-6107		Field Blanks							
Type of Sample	4		4		4									
Pump Number	–		–		–									
Start Time/Stop Time	0810	1400	0812	1404	0815	1409								
Total Time (min)	350		352		354									
Flow Rate	2.5	2.5	2.5	2.4	2.5	2.4								
Total Volume (l)	875		862.4		867.3									
FB — BFB FL — BFL	10/100		4/100		14/100		0/100		0/100					
Filter Fiber Conc. (fibers/mm²)	13		5		18		–		–					
Airborne Fiber Conc. (fibers/cc)	0.066 ✓		ndL 0.003 ✓		0.008 ✓		–		–					

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Eric L. Hastedt Date _____ Time _____
Received By: K. Williamson Date 10/2/08 Time 1600
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
CT#PH-0426 MA#AA000052 NY#10980 RI#AAL-007C3
ME#LB-0071 VA#3333000283 TX#300354 VT#AL014538
AIHA/PAT#100122

Condition of Sample: OK
Acceptable: Y ✓ N ____
Comments: _____

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

Windsor, CT 06095
860-298-9692

Ed. April 2008
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 106957.9130.0003 Date: 9/25/08 Page 2 of 2

Client: CT - DPW Sampler Print: E. Hasledt Signature: Eric J. Hasledt Date: 9/25/08

Site: Mystic Education CTR Analyst Print: E. Hasledt Signature: Eric J. Hasledt Date Analyzed: 9/25/08

Address: 240 Oral School Rd. QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 10/2/08

Mystic, CT Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued:

Contact/Name: Eric Hasledt Phone: 860-817-8579 Rotometer No.: H-33 Date of Calibration: 5/5/08 Lab No. 360051

Microscope No. 672708 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: _____
Issue 2 8/15/94

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.369	0.608
20.5 to 50/100	0.296	0.502
>50/100	0.205	0.454

Sample No.	39	40	41	42	43		
Sampling Location/Comments	6104 - 6105 Exit stair well containment						
Type of Sample	6	6	6	6	6		
Pump Number	—	—	—	—	—		
Start Time/Stop Time	1130 1250	1130 1250	1130 1250	1130 1250	1130 1250		
Total Time (min)	80	80	80	80	80		
Flow Rate	15 15	15 15	15 15	15 15	15 15		
Total Volume (l)	1200	1200	1200	1200	1200		
FB — BFB FL — BFL	4/100	5/100	6/100	4/100	5/100		
Filter Fiber Conc. (fibers/mm²)	5	6	8	5	6		
Airborne Fiber Conc. (fibers/cc)	nd < 0.002 ✓	nd < 0.002 ✓	0.002 ✓	nd < 0.002 ✓	nd < 0.002 ✓		

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Eric J. Hasledt Date _____ Time _____
Received By: K Williamson Date 10/2/08 Time 1600
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
CT#PH-0426 MA#AA000052 NY#10980 RI#AAL-007C3
ME#LB-0071 VA#3333000283 TX#300354 VT#AL014538
AIHA/PAT#100122

Condition of Sample: OK
Acceptable: Y ✓ N ____
Comments: _____

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
41	5/100	KW 10/2/08	Lab

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

Griffin Road North
Windsor, CT 06095
860-298-9692

Ed. April 2008
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 106957.9130.0003 Date: 9/26/08 Page 1 of 1

Client: CT- DPW

Site: Mystic Education CTR

Address: 240 Oral School Rd.
Mystic, CT

Contact/Name: ERIC Hastedt Phone: 860-887-8579

Sampler Print: E. Hastedt Signature: Eric J. Hastedt Date: 9/26/08

Analyst Print: E. Hastedt Signature: Eric J. Hastedt Date Analyzed: 9/26/08

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed:

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued:

Rotometer No.: H-33 Date of Calibration: 5/5/08 Lab No. 36051

Microscope No. 672708 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.369	0.608
20.5 to 50/100	0.296	0.502
>50/100	0.205	0.454

Sample No.	44		45		46		47		48		49		50	
Sampling Location/Comments	G106-G107 Exit stair well containment		←						→		Field Blanks			
Type of Sample	6		6		6		6		6					
Pump Number	—		—		—		—		—					
Start Time/Stop Time	0730	0850	0730	0850	0730	0850	0730	0850	0730	0850				
Total Time (min)	80		80		80		80		80					
Flow Rate	15	15	15	15	15	15	15	15	15	15				
Total Volume (l)	1200		1200		1200		1200		1200					
FB — BFB FL — BFL	5/100		6/100		3/100		4/100		5/100		0/100		0/100	
Filter Fiber Conc. (fibers/mm²)	6		8		4		5		6		—		—	
Airborne Fiber Conc. (fibers/cc)	nd<0.002 ✓		0.002 ✓		nd<0.002 ✓		nd<0.002 ✓		nd<0.002 ✓		—		—	

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Eric J. Hastedt Date ____ Time ____
Received By: K Williamson Date 10/2/08 Time 1600
Relinquished by: ____ Date ____ Time ____
Received by Laboratory: ____ Date ____ Time ____

TRC Laboratory Asbestos Analytical Certifications:
CT#PH-0426 MA#AA000052 NY#10980 RI#AAL-007C3
ME#LB-0071 VA#3333000283 TX#300354 VT#AL014538
AIHA/PAT#100122

Condition of Sample: OK
Acceptable: Y ✓ N ____
Comments: ____

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

APPENDIX J
ASBESTOS WASTE SHIPMENT RECORDS

RED TECHNOLOGIES, LLC
REMEDIATION ENGINEERING & DEVELOPMENT

173 Pickering Street
Portland, CT 06480
(860) 342-1022
Fax: (860) 342-1042

E.P.A. AGENCY

18326

CT, MA RI, VT, NH, ME GENERATORS
EPA New England
1 Congress Street
Boston, MA 02114-2023
(617) 918-1111

NY GENERATORS
EPA Region 2
290 Broadway, 26th Floor
New York, NY 10007-1866
(212) 264-6770

TK# 18305 ASBESTOS DISPOSAL & DOCUMENTATION FORM

Job Number 201-3107 P.O. #
Contractor Petco Insulation Co., Inc.
Address 88 Farwell St., Suite 1
City West Haven State CT Zip 06516
Telephone Number (203) 934-3926
Date Container Del. 9/23/08 Date of Pickup 10/30/08
Type of Container 40 yd
VOLUME 6160 **CY** Friable ☒ Non-Friable ☐
MUST BE IN CUBIC YARDS

Bag ☒ Drum ☐ T-Pack ☐ Wrapped ☐ Other ☐

GENERATOR/BUILDING OWNER
State of CT, DPW
Address 165 Capitol Ave.
City Hartford, CT State 06106 Zip
Phone Number

GENERATING LOCATION
Mystic Ed, Administration/Girls Bldg
Address Mystic Oral School Rd
City West Mystic, CT State Zip
Phone Number

I certify the above named material does not contain free liquid as defined by 40 CFR part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to NESHAP standards for asbestos waste disposal found in 40 CFR part 61.150.
Shipper's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations.

AUTHORIZED SIGNATURE [signature]

Transporter 1: Red Technologies LLC 40 Northwood Dr, Bloomfield, CT 06002 860-218-2742
Name Address Telephone #
Driver: [signature] Registration #: 72190A/CT Date: 10-30-08
Signature State / #
Acknowledgement of receipt of materials

Transporter 2:
Name Address Telephone #
Driver: N/A Registration #: Date:
Signature State / #
Acknowledgement of receipt of materials

Transfer Facility: Charles M. Gordon & Sons, Inc 203 Pickering St. Portland, CT 06480 **Permit #:**
860-342-1022 Permit# 1130836-PO
Transfer Date: **By:** Lindsay S Kelly
Discrepancy:
Certification of transfer of materials covered by this manifest

Transporter 3: Bumpus Trucking 491 Jonesboro Rd. Washington CH, OH 43160 740-335-0318
Name Address Telephone #
Driver: Wayne Mustard Registration #: Date:
Signature State / #
Acknowledgement of receipt of materials

Landfill Name: Minerva Enterprises 330-866-3435 Phone No:
Location: 9000 Minerva Road Waynesburg OH, 44688 Permit #
Approximate Volume of Asbestos Received:
Discrepancy If Any:
Received by: Date: 2008 OCT 31 P 1:43
MINERVA ENTERPRISES
Certification of transfer of materials covered by this manifest
GENERATOR

APPENDIX G
ASBESTOS AIR SAMPLE ANALYSIS AND CHAIN-OF-CUSTODY DATA

APPENDIX H
ASBESTOS WASTE SHIPMENT RECORDS

Harold –
This is your
Copy of the
asbestos testing
results. L

Manolakis, Roberta L (Lynn)

From: Paul Provost [pprovost@engconst.com]
Sent: Monday, March 09, 2009 1:15 PM
To: Manolakis, Roberta L (Lynn); peter.springsteel@snet.net
Cc: 'John Crees'

All,

Chris called from Mystic Air. All samples came back negative. We will be on site Tuesday AM to continue. Thanks.

PAUL R. PROVOST
Engineered Construction Int'l, Inc.
Plainfield, CT
Ph (860) 230-0859
Fax (860) 230-0860

Mystic Air Quality Consultants, Inc.
1204 North Road (Rt. 117) Groton, Connecticut 06340

March 9, 2009

Mr. Paul Provost
Engineered Construction
57 East Main Street
P.O.Box 191
Plainfield, Connecticut 06374

Re: **Limited and Directed Asbestos Sampling** (3/5/09)
A Lion; 24 Oral School Road; Groton, Connecticut

Dear Mr. Provost:

As requested, Mystic Air Quality Consultants, Inc. conducted a limited and directed survey of accessible materials at the location noted above on March 5, 2009. This survey was conducted by our State of Connecticut licensed asbestos inspector, Nicholas Carafeno, to determine the presence of asbestos-containing materials. The samples were analyzed at Environmental Hazards Services (NVLAP # 101882-0) in Virginia.

Summary of the findings

Upon testing by polarized light microscopy, all samples collected and analyzed from the above location were found to be non-asbestos containing. *See Enclosure (1) for lab results, Enclosure (2) for the chain of custody and roster of suspect materials.*

Implications of the findings

As required by state and federal regulations prior to renovation or demolition, all the asbestos-containing materials that will be disturbed by renovation, will need to be removed by a licensed asbestos abatement contractor -employing trained and certified personnel who follow all pertinent asbestos abatement regulations.

Limitations of the survey

This survey and report only deal with accessible areas of the buildings. Additionally, there may be other non-accessible materials above ceilings, behind walls, and below floors that become evident during your renovation activity. Should the requisite EPA/OSHA competent person working for the contractor discover such materials they will need to be tested for asbestos content so determinations of their abatement and disposal (if required) can be made.

Please do not hesitate to contact us with questions relating to the sample results. We thank you for the opportunity to conduct this survey.

Sincerely,

Christopher J. Eident CIH, CSP, RS
CEO

Communications (24 hours):
Office: (860) 449-8903 FAX: (860) 449-8860 Toll Free: 1 (800) 247-7746
website: www.mysticair.com e-mail:maqc2@aol.com

Mystic Air Quality Consultants, Inc.
1204 North Road (Rt. 117) Groton, Connecticut 06340

Asbestos Containing Suspect Materials Roster

Site: 240 Oral School Rd
Groton, CT

____

	Type Of Material	Amount of Material	Condition of Material	Specific Location of Suspect ACM at Site
123	Grout		Damaged	Cyro Bar Block walls
456	Grout		Damaged	Tarracota Block walls
787	Plaster		Damaged	Walls/Ceiling Rm 3 1/2 FT [illegible]
W11	walls/Ceiling		Damaged	" "
Assumed	Pipe Ins.		Damaged	Inside wall
Assumed	Elbow Ins		Damaged	Inside walls

EPA considers the materials above as "suspect" asbestos-containing materials.

Date: 3/5/09

Inspector [signature]

ENCLOSURE 2 PAGE 2 OF 2

Telecommunications (24 hours):
Office: (203) 449-8903
FAX: (203) 449-8860
CT Toll Free: 1 (800) 247-7746
NE Toll Free: 1 (800) 722-7746

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 7-2564 SB
EHS PROJECT #: 2009-03-0314
PROJECT: A Lion; 24 Oral School Rd.

EHS SAMPLE #	CLIENT SAMPLE #/ LABORATORY GROSS DESCRIPTION	% ASBESTOS	OTHER MATERIALS
12	12/ Off-White Brittle; Tan Fib.	NAD	12% Cellulose 8% Fibrous Glass 80% Non-Fibrous

QC SAMPLE: NIST REF

QC BLANK: SRM 1866 Fiberglass

REPORTING LIMIT: 1% Asbestos

METHOD: Polarized Light Microscopy, EPA Method 600/R-93/116 *

ANALYST: Mark Case

Reviewed By Authorized Signatory: _____
Howard Varner, General Manager
Irma Faszewski, Quality Assurance Coordinator

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of Environmental Hazards Services, L.L.C. California Certification #2319 NY ELAP #11714. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), for enhanced detection capabilities) for materials regulated by the EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND NAD = no asbestos detected
SCF = suspected ceramic fibers

plm1.dot/05AUG2008/REV3/pd

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
7469 WHITE PINE ROAD - RICHMOND, VA 23237
804-275-4788 FAX 804-275-4907

BULK ASBESTOS SAMPLE ANALYSIS SUMMARY

CLIENT: Mystic Air Quality Consultants
1204 North Road, Rt. 117
Groton, CT 06340

DATE OF RECEIPT: 06 Mar 2009
DATE OF ANALYSIS: 06 Mar 2009
DATE OF REPORT: 06 Mar 2009

CLIENT NUMBER: 7-2564 SB
EHS PROJECT #: 2009-03-0314
PROJECT: A Lion; 24 Oral School Rd.

EHS SAMPLE #	CLIENT SAMPLE #/ LABORATORY GROSS DESCRIPTION	% ASBESTOS	OTHER MATERIALS
01	1/ Gray Cementitious	NAD	100% Non-Fibrous
02	2/ Gray Cementitious	NAD	100% Non-Fibrous
03	3/ Gray Cementitious	NAD	100% Non-Fibrous
04	4/ Pale Gray Cementitious	NAD	100% Non-Fibrous
05	5/ Pale Gray Cementitious	NAD	100% Non-Fibrous
06	6/ Pale Gray Cementitious	NAD	100% Non-Fibrous
07	7/ Gray Cementitious; White/Green/Pale Yellow Brittle	NAD	1% Cellulose 1% Hair 98% Non-Fibrous
08	8/ Gray Cementitious; White/Green/Pale Yellow Brittle	NAD	1% Cellulose 1% Hair 98% Non-Fibrous
09	9/ Gray Cementitious; White/Green/Pale Yellow Brittle	NAD	1% Cellulose 1% Hair 98% Non-Fibrous
10	10/ Off-White Brittle; Tan Fib.	NAD	12% Cellulose 8% Fibrous Glass 80% Non-Fibrous
11	11/ Off-White Brittle; Tan Fib.	NAD	12% Cellulose 8% Fibrous Glass 80% Non-Fibrous

12 PM

EHS 2009-03-0314

ENVIRONMENTAL HAZARDS SERVICES, INC.

7469 White Pine Road
Richmond, Virginia 23237
(804) 275-4788 Fax (804) 275-4907

CHAIN OF CUSTODY FORM

Customer Information:
Company Name: MYSTIC AIR QUALITY CONSULTANTS, INC.
Address: 1204 NORTH ROAD GROTON, CT 06340
City, State, Zip: 860-449-8903
Contact:

Date: 3/5/09
Phone: 860 449 8903
Fax: 860 449 8860
Project: A Lion
24 Oral School Rd.

Sample #	Sample Type	Sample Location	Time (min.)	Volume (Liters)
1-2-3	PLM	Grout Pyro Blocks walls		
4 5 6		Grout Terracotta Blocks walls		
7 8 9		wall/ceiling plaster IT Am 3rd Fl		
W 11 12		wall/ceiling IT Am 3rd Fl		
		Homogeneous Positive Stop		

CHAIN OF CUSTODY

Date/Time	Released By:	Date/Time	Received By:
	[signature]		
	[signature]	[signature]	3/6/09 10

- DRAFT -

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
ADMINISTRATION BUILDING (DPW Building 16945)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: March, 2001

DELTA
ENVIRONMENTAL
SERVICES®, INC.

81 Schoolground Road
P.O. Box 564, Branford, CT
(203) 481-7668

- DRAFT -

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APPENDIX B - Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

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APPENDIX D - Building Diagrams

1.0 INTRODUCTION

This report summarizes the results of an asbestos and lead inspection conducted by DELTA Environmental Services, Inc. (DELTA) for the Administration Building (DPW Building Number 16945) at the Mystic Education Center facility at 290 Oral School Road in Mystic, Connecticut. The project consisted of: review of available building records, physical inspection of the building to determine the quantities and locations of asbestos-containing materials (ACM); and bulk sampling of suspected asbestos-containing materials (ACM).

2.0 BUILDING DESCRIPTION

Mystic Education Center is a seven-building campus-type facility. The property consists of approximately 122 acres and 250,000 square feet of building floor space. The Administration Building (also known as the Main Building) was constructed in 1944. The southern portion of the building houses administrative offices of the Department of Mental Retardation. The northern portion of the building was renovated circa 1992 and is now leased to the Engineering Technology Center, a private corporation. The building is heated by steam radiators. A large boiler room is present in the western portion of the building. Room numbers referred to in this report correspond to the building diagrams in Appendix E.

3.0 SUMMARY OF PREVIOUS ASBESTOS PROJECTS

DELTA reviewed previous correspondence and reports regarding the building in order to plan the building survey. The following documents were reviewed: an asbestos building survey prepared by TRC Environmental Consultants, Inc. (TRC) dated March 26, 1987. A summary of the pertinent contents of the document follows.

The TRC report identified a total of 9,544 square feet of asbestos-containing thermal systems insulation in the building. A large quantity of asbestos-containing boiler, tank, duct and pipe insulation was present in the basement boiler and hot water tank rooms (A-24 and A-25). DELTA's recent inspection found that the boiler room and virtually all of the basement of the southern portion of the building has been abated since 1987. The TRC report found additional asbestos-containing pipe insulation the following areas: pipe chases throughout the building; a pipe tunnel in the basement of the area currently occupied by ETC; and the basement, first, second and third floors of the area currently occupied by ETC.

4.0 ASBESTOS SURVEY

4.1 Asbestos Sampling Procedures

Bulk samples of suspected ACM were collected by James P. McCarthy, P.E., of DELTA, a Connecticut Department of Public Health licensed inspector. Samples were collected using a clean knife or other appropriate tool after first wetting the material to be sampled to limit fiber release.

Samples were placed in dedicated sealable plastic bags and promptly transmitted to the analytical laboratory using strict chain of custody procedures. Sampling was performed in accordance with Environmental Protection Agency protocols, which require a minimum of three negative results in order to establish that a material does not contain asbestos.

4.2 Asbestos Analytical Procedures

Analysis was performed by International Asbestos Testing Laboratories, Inc. (IATL), Mt. Laurel, New Jersey, and Chemscope, Inc., North Haven, Connecticut. Both laboratories are accredited by the National Institute of Standards and Technology accredited laboratory. Analysis was performed using Polarized Light Microscopy (PLM) Method EPA 600. Point counting was used to quantify asbestos content for all samples found to contain less than ten percent asbestos.

4.3 Asbestos Analytical Results

The results of recent bulk sampling performed by DELTA are summarized in Table 4-1. Laboratory data sheets are included in Appendix B.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: green 9" floor tile and mastic; light brown 9" floor tile and mastic; mastic from brown 12" floor tile (the tile does not contain asbestos); black 12" floor tile (the mastic does not contain asbestos); pipe and pipe fitting insulation; soft ceiling surfacing material in the Dining Room; one type of 12" square ceiling tile located at the west side of the second floor corridor; black tar adhesive used to affix blackboards to the wall; and exterior window glazing.

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
DMR ADMINISTRATION OFFICES (SOUTHERN PORTION OF BUILDING)				
1	142-666-1	Imitation Wood Linoleum	Corridor Outside A145	NAD
2	142-666-2	Imitation Wood Linoleum	Corridor Outside A145	NAD
3	142-666-3 142-666-6	Green 9" Floor Tile Mastic From Above	East Stairwell Landing Between Basement and First Floor	Not Analyzed* 28% Chrysotile
4	142-666-4	Green 9" Floor Tile	East Stairwell Landing Between Basement and First Floor	Not Analyzed*
5	142-666-5	Green 9" Floor Tile	East Stairwell Landing Between Basement and First Floor	Not Analyzed*
6	142-666-7	Green 9" Floor Tile Mastic	East Stairwell Landing Between Basement and First Floor	Not Analyzed*
7	142-666-8	Green 9" Floor Tile Mastic	East Stairwell Landing Between Basement and First Floor	Not Analyzed*
8 9	142-666-9 142-666-10	Wall Plaster Top Coat Wall Plaster Brown Coat	East Stairwell Landing Between Second and Third Floors	NAD NAD

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
10	142-666-11	Brown 12" Floor Tile	Third Floor in Front of Elevator	< 1% Chrysotile (Point Count)
	142-666-12	Mastic From Above		< 1% Chrysotile (Point Count)
11	142-666-13	Baseboard Molding Adhesive	Third Floor	NAD
12	142-666-14	Baseboard Molding Adhesive	Third Floor	NAD
13	142-666-15	Baseboard Molding Adhesive	Third Floor	NAD
	142-666-16	Wall Plaster Top Coat		NAD
14	142-666-17	Brown 12" Floor Tile	First Floor in Front of Elevator	Not Analyzed*
	142-666-18	Mastic From Above		12% Chrysotile
15	142-666-19	Ceiling Tile 12" Square Type 3 - Groove Pattern	Basement Room A-8	NAD
15A	142-666-20	Glue Dot From Ceiling Tile 12" Square Type 3	Basement Room A-8	NAD
16	142-666-21	Ceiling Tile 12" Square Type 3 - Groove Pattern	Basement Room A-8	NAD
16A	142-666-22	Glue Dot From Ceiling Tile 12" Square Type 3	Basement Room A-8	NAD

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
17	142-666-23	Ceiling Tile 12" Square Type 3 - Groove Pattern	Basement Room A-8	NAD
17A	142-666-24	Glue Dot From Ceiling Tile 12" Square Type 3	Basement Room A-8	NAD
18	142-666-25	Joint Compound	Basement West Landing	NAD
19	142-666-26	Joint Compound	Basement West Landing	NAD
20	142-666-27	Joint Compound	Basement West Landing	NAD
21	142-666-28	Baseboard Molding Adhesive	Basement West Landing	NAD
	142-666-29			NAD
22	142-666-30	Brown 12" Floor Tile	Basement West Landing	Not Analyzed*
	142-666-31	Mastic From Above		14% Chrysotile
23	142-666-32	White 12" Floor Tile With Green Streaks	Basement Room A-8	NAD
	142-666-35	Mastic From Above		NAD
24	142-666-33	White 12" Floor Tile With Green Streaks	Basement Room A-8	NAD
	142-666-36	Mastic From Above		NAD

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
25	142-666-34	White 12" Floor Tile With Green Streaks	Basement Room A-8	NAD
	142-666-37	Mastic From Above		NAD
26	142-666-38	Baseboard Molding Adhesive	Basement Room A-8	NAD
27	1248491	Ceiling Tile 12" Square Type 5 - Symmetrical Large Pinhole Pattern	Room A-124	NAD
28	1248492	Ceiling Tile 12" Square Type 5 - Symmetrical Large Pinhole Pattern	Room A-124	NAD
29	1248493	Ceiling Tile 12" Square Type 5 - Symmetrical Large Pinhole Pattern	Room A-124	NAD
30	1248494	Brown Glue Dot From Ceiling Tile 12" Square Type 5 - Symmetrical Large Pinhole Pattern	Room A-124	NAD
31	1248495	Brown Glue Dot From Ceiling Tile 12" Square Type 5 - Symmetrical Large Pinhole Pattern	Room A-124	NAD

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
32	1248496	Brown Glue Dot From Ceiling Tile 12" Square Type 5 - Symmetrical Large Pinhole Pattern	Room A-124	NAD
33	1248497	Dark Brown Glue Dot From Ceiling Tile 12" Square Type 2 - Asymmetrical Large Pinhole Pattern	Room A-124	Trace Chrysotile (Point Count)
34	1248498	Dark Brown Glue Dot From Ceiling Tile 12" Square Type 2 - Asymmetrical Large Pinhole Pattern	Room A-124	Trace Chrysotile (Point Count)
35	1248499	Dark Brown Glue Dot From Ceiling Tile 12" Square Type 2 - Asymmetrical Large Pinhole Pattern	Room A-124	Trace Chrysotile (Point Count)
36	1248500	Black Tar Adhesive From Behind Blackboard	Room A-124	15% Chrysotile
37	1248501	Black Tar Adhesive From Behind Blackboard	Room A-124	Not Analyzed*
38	1248502	Black Tar Adhesive From Behind Blackboard	Room A-124	Not Analyzed*

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
39	1248503	Sheetrock	Basement West Stairwell Landing	NAD
40	1248504	Sheetrock	Basement West Stairwell Landing	NAD
59	142-666-76	Wall Plaster Top Coat	Stairs to Basement Near Room A18	NAD
60	142-666-77	Wall Plaster Brown Coat		NAD
61	142-666-78	Suspended Ceiling Tile 2' X 4'	Landing Near Room A-8	NAD
62	142-666-79	Suspended Ceiling Tile 2' X 4'	Landing Near Room A-8	NAD
63	142-666-80	Suspended Ceiling Tile 2' X 4'	Landing Near Room A-8	NAD
64	142-666-81	Ceiling Concrete Skim Coat	Room A-238	NAD
65	142-666-82	Ceiling Concrete Skim Coat	Room A-238	NAD
66	142-666-83	Ceiling Concrete Skim Coat	Room A-238	NAD
67	142-666-84	Wall Plaster Top Coat	Second Floor Room A238	NAD
68	142-666-85	Wall Plaster Brown Coat		NAD
69	142-666-86	Wall Plaster Top Coat	Second Floor Room A238	NAD
	142-666-87	Wall Plaster Brown Coat		NAD

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
70	142-666-88	Ceiling Tile 12" Square Type 1 - Small Pinhole Pattern	Second Floor West Side of Corridor Near A252	15% Amosite
71	142-666-89	Ceiling Tile 12" Square Type 1 - Small Pinhole Pattern	Second Floor West Side of Corridor Near A252	Not Analyzed*
72	142-666-90	Ceiling Tile 12" Square Type 1 - Small Pinhole Pattern	Second Floor West Side of Corridor Near A252	Not Analyzed*
73	142-666-94	Ceiling Plaster Top Coat	Second Floor Corridor Near Room A252	NAD
74	142-666-95	Ceiling Plaster Brown Coat		VOID*
** The plaster sample was found to have been contaminated during the sampling procedure. Ceiling tile containing amosite asbestos is glued to the plaster ceiling at this location. Asbestos fibers from the ceiling tile were inadvertently collected with the plaster sample.*				
75	142-666-96	Ceiling Tile 12" Square Type 2 - Asymmetrical Large Pinhole Pattern	Second Floor East Side of Corridor	NAD
76	142-666-97	Ceiling Tile 12" Square Type 2 - Asymmetrical Large Pinhole Pattern	Second Floor East Side of Corridor	NAD
77	142-666-98	Ceiling Tile 12" Square Type 2 - Asymmetrical Large Pinhole Pattern	Second Floor East Side of Corridor	NAD

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
78	142-666-99	Glue Dot From Ceiling Tile 12" Square Type 2 - Asymmetrical Large Pinhole Pattern	Second Floor East Side of Corridor	NAD
97	1184278	Light Brown 9" Floor Tile	Basement Maintenance Shop	< 1% Chrysotile (Point Count)
	1184279	Mastic From Above		NAD
99	143-248-1	Ceiling Plaster Top Coat	Basement Men's Bathroom	NAD
100	143-248-2	Ceiling Plaster Brown Coat		NAD
101	143-248-3	Ceiling Plaster (Both Coats)	Second Floor Corridor Near Room A252	NAD
102	143-248-4	Ceiling Plaster Brown Coat	Second Floor Corridor Near Room A252	NAD
103	143-248-5	Wall Plaster Top Coat	Second Floor Corridor Near A251	NAD
104	143-248-6	Wall Plaster Brown Coat		NAD
105	143-248-7	Wall Plaster Top Coat	Third Floor Corridor Near Elevator	NAD
106	143-248-8	Wall Plaster Brown Coat		NAD

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
107	143-248-9	Ceiling Plaster (Both Coats)	Third Floor Corridor Opposite A328	NAD
108	143-248-10	Ceiling Plaster (Both Coats)	Third Floor Corridor Opposite A328	NAD
142	1217321	Window Caulk	Exterior Wood Window	NAD
143	1217322	Window Caulk	Exterior Wood Window	NAD
144	1217323	Window Caulk	Exterior Wood Window	NAD
145	1217324	Window Glazing	Exterior Wood Window	3.5% Chrysotile (Point Count)
146	1217325	Window Glazing	Exterior Wood Window	Not Analyzed*
147	1217326	Window Glazing	Exterior Wood Window	Not Analyzed*
148	143-726-1	Tan 9" Floor Tile with Brown/White Streaks	First Floor Mail Room A151	NAD
149	143-726-2	Tan 9" Floor Tile with Brown/White Streaks	First Floor Mail Room A151	NAD
150	143-726-3	Tan 9" Floor Tile with Brown/White Streaks	First Floor Mail Room A151	NAD
151	143-726-4	Orange Mastic From Tan 9" Floor Tile with Brown/White Streaks	First Floor Mail Room A151	NAD

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
152	143-726-5	Orange Mastic From Tan 9" Floor Tile with Brown/White Streaks	First Floor Mail Room A151	NAD
153	143-726-6	Orange Mastic From Tan 9" Floor Tile with Brown/White Streaks	First Floor Mail Room A151	NAD
154	143-726-25 143-726-28	Black 12" Floor Tile Mastic	First Floor Dining Room	1-2% Chrysotile NAD
155	143-726-26 143-726-29	Black 12" Floor Tile Mastic	First Floor Dining Room	Not Analyzed* NAD
156	143-726-27 143-726-30	Black 12" Floor Tile Mastic	First Floor Dining Room	Not Analyzed* NAD
157	143-726-31	Cement on Fiberglass Breeching Insulation	Boiler Room	NAD
158	143-726-32	Cement on Fiberglass Breeching Insulation	Boiler Room	NAD
159	143-726-33	Cement on Fiberglass Breeching Insulation	Boiler Room	NAD

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
160	143-726-34	White 1' X 1' Ceiling Tile Type 4 - Grooved Pattern	First Floor Dining Room	NAD
	143-726-37	Glue Dot		NAD
161	143-726-35	White 1' X 1' Ceiling Tile Type 4 - Grooved Pattern	First Floor Dining Room	NAD
	143-726-38	Glue Dot		NAD
162	143-726-36	White 1' X 1' Ceiling Tile Type 4 - Grooved Pattern	First Floor Dining Room	NAD
	143-726-39	Glue Dot		NAD
163	143-726-40	Soft Ceiling Surfacing Above Ceiling Tile	First Floor Dining Room	4% Chrysotile
164	143-726-41	Black 12" Floor Tile with White Streaks (Salient Area)	First Floor Dining Room	NAD
	143-726-44	Mastic		< 1% Chrysotile
165	143-726-42	Black 12" Floor Tile with White Streaks (Salient Area)	First Floor Dining Room	NAD
	143-726-45	Mastic		< 1% Chrysotile

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
166	143-726-43 143-726-46	Black 12" Floor Tile with White Streaks (Salient Area) Mastic	First Floor Dining Room	NAD < 1% Chrysotile
167	143-726-47 143-726-49	Light Brown 9" Floor Tile Mastic	Basement Maintenance Area	1-2% Chrysotile 10% Chrysotile
168	143-726-48 143-726-50	Light Brown 9" Floor Tile Mastic	Basement Maintenance Area	Not Analyzed* Not Analyzed*
169	1217327	Suspended Ceiling Tile - 2' X 4'	First Floor Conference Room A134	NAD
170	1217328	Suspended Ceiling Tile - 2' X 4'	First Floor Conference Room A134	NAD
171	1217329	Suspended Ceiling Tile - 2' X 4'	First Floor Conference Room A134	NAD

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
ETC (NORTHERN PORTION) OF BUILDING				
1	1248473	Gray 12" Floor Tile Mastic	Ground Floor Men's Bathroom	NAD NAD
2	1248474	Gray 12" Floor Tile Mastic	Ground Floor Men's Bathroom	NAD NAD
3	1248475	Gray 12" Floor Tile Mastic	Ground Floor Men's Bathroom	NAD NAD
4	1248476	Wall Plaster Top Coat	Ground Floor Air Handler Room	NAD
5	1248477	Wall Plaster Top Coat	Ground Floor Air Handler Room	NAD
6	1248478	Wall Plaster Top Coat	Ground Floor Air Handler Room	NAD
7	1248479	Wall Plaster Brown Coat	Ground Floor Air Handler Room	NAD
8	1248480	Wall Plaster Brown Coat	Ground Floor Air Handler Room	NAD
9	1248481	Wall Plaster Brown Coat	Ground Floor Air Handler Room	NAD

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
10	1248482	Ceiling Tile - 2' X 2'	Ground Floor Air Handler Room	NAD
11	1248483	Ceiling Tile - 2' X 2'	Ground Floor Air Handler Room	NAD
12	1248484	Ceiling Tile - 2' X 2'	Ground Floor Air Handler Room	NAD
13	1248485	Joint Compound	Ground Floor Air Handler Room	NAD
14	1248486	Joint Compound	Ground Floor Air Handler Room	NAD
15	1248487	Joint Compound	Ground Floor Air Handler Room	NAD
16	1248488	Sheetrock	Ground Floor Air Handler Room	NAD
17	1248489	Sheetrock	Ground Floor Air Handler Room	NAD
18	1248490	Sheetrock	Ground Floor Air Handler Room	NAD

NOTE: "NAD" INDICATES NO ASBESTOS DETECTED

* EPA protocols consider one positive result as confirmation that a material contains asbestos. If the first sample of a material is found to contain asbestos, no further confirmation is necessary and any additional samples are therefore not analyzed.

The various types of older 9" vinyl floor tile in the building were found to contain between 2 and 7% chrysotile asbestos. The mastic from the 9" tile was also found to contain between 10 and 28% chrysotile asbestos. The brown 12" tile mastic contains 14% chrysotile; the tile itself does not contain asbestos. The black 12" tile contains 2% chrysotile asbestos; the mastic does not contain asbestos.

Floor tile in the building is generally in fair to good condition. Though the tile is unlikely to present a hazard unless it is actively disturbed, any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile (and mastic if applicable) as asbestos.

Asbestos-containing pipe and pipe fitting insulation is present in the building as enumerated in the table in Appendix A. The insulation is generally present in isolated areas such as pipe chases. It appears that the asbestos-containing thermal systems insulation in the basement should be assigned a moderate level of priority for abatement, due to its impact on future building maintenance activities.

A trowel-applied soft ceiling surfacing material in the Dining Room on the First Floor was found to contain 4% chrysotile asbestos. The surfacing is present above a layer of non-asbestos ceiling tile which is glued to the asbestos-containing ceiling material. Given that it is covered by the tile, it appears unlikely that the surfacing material would release asbestos fibers unless actively disturbed. Consequently, it appears that the material should be assigned a relatively low priority for abatement.

A type of 1' square ceiling tile (glued to the ceiling) present only at the west side of the second floor corridor was found to contain 15% amosite asbestos. It appears that this material should be assigned a moderate level of priority for abatement, due to their impact on future building maintenance activities.

Glue material ("glue dots") used to affix blackboards to the walls in classroom areas was found to contain 15% chrysotile asbestos. The glue is hard and is nonfriable. The material is unlikely to release asbestos fibers unless disturbed.

TABLE 4-2 : ASBESTOS-CONTAINING MATERIAL
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

HOMOGENEOUS AREA NUMBER	MATERIAL DESCRIPTION	LOCATION	ASBESTOS TYPE AND CONTENT (%)
1	Green 9" Floor Tile	Stairwell Landings, Elevator Machine Room, Maintenance Office	7% Chrysotile
2	Mastic From Green 9" Floor Tile	Stairwell Landings, Elevator Machine Room, Maintenance Office	28% Chrysotile
3	Pipe and Fitting Insulation	Throughout	70% Chrysotile
4	Soft Ceiling Surfacing (Above Ceiling Tile)	Dining Room	4% Chrysotile
5	1' X 1' Ceiling Tile Type 1 Small Pinhole Pattern	Second Floor Corridor West Side	15% Amosite
6	Mastic From Brown 12" Floor Tile	First Through Third Floors in Front of Elevators, Basement Stairwell Landing	14% Chrysotile
7	Light Brown 9" Floor Tile	Basement Maintenance Area	2% Chrysotile
8	Mastic From Light Brown 9" Floor Tile	Basement Maintenance Area	10% Chrysotile
9	Black 12" Floor Tile	First Floor Dining Room	2% Chrysotile
10	Exterior Window Glazing	Throughout	3.5% Chrysotile
11	Black Tar Adhesive From Behind Blackboards	Classroom Areas	15% Chrysotile

TABLE 4-3 : NON-ASBESTOS-CONTAINING MATERIAL
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

HOMOGENEOUS AREA NUMBER	MATERIAL DESCRIPTION	LOCATION	ASBESTOS TYPE AND CONTENT (%)
12	Imitation Wood Linoleum	Throughout First Through Third Floors	NAD
13	Wall Plaster Top Coat	Throughout	NAD
14	Wall Plaster Brown Coat	Throughout	NAD
15	Ceiling Plaster Top Coat	Throughout	NAD
16	Ceiling Plaster Brown Coat	Throughout	NAD
17	Glue Dots From 1' X 1' Ceiling Tile Type 1	Second Floor Corridor West Side	NAD
18	1' X 1' Ceiling Tile Type 2 Asymmetrical Large Pinhole Pattern	First Floor Corridor, Second Floor Corridor East Side, Third Floor Corridor	NAD
19	Glue Dots From 1' X 1' Ceiling Tile Type 2	First Floor Corridor, Second Floor Corridor East Side, Third Floor Corridor	NAD
20	1' X 1' Ceiling Tile Type 3 Groove Pattern	Basement Room A-8	NAD
21	Glue Dots From 1' X 1' Ceiling Tile Type 3	Basement Room A-8	NAD
22	1' X 1' Ceiling Tile Type 4 Groove Pattern	First Floor Dining Room	NAD
23	Glue Dots From 1' X 1' Ceiling Tile Type 4	First Floor Dining Room	< 1% Chrysotile

TABLE 4-3 : NON-ASBESTOS-CONTAINING MATERIAL
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

24	1' X 1' Ceiling Tile Type 5 Symmetrical Large Pinhole Pattern	A-121, A-122, A-123, A-124 and Adjacent Corridor	NAD
25	Glue Dots From 1' X 1' Ceiling Tile Type 5	A-121, A-122, A-123, A-124 and Adjacent Corridor	NAD
26	Brown 12" Floor Tile	First Through Third Floors in Front of Elevators, Basement Stairwell Landing	< 1% Chrysotile
27	Baseboard Molding Adhesive	First Through Third Floors in Front of Elevators, Basement Stairwell Landing, Basement Room A-8	NAD
28	Sheetrock	Basement West Landing	NAD
29	Joint Compound	Basement West Landing	NAD
30	White 12" Floor Tile with Green Streaks	Basement Room A8	NAD
31	Mastic From White 12" Floor Tile with Green Streaks	Basement Room A8	NAD
32	2' X 4' Suspended Ceiling Tile	Basement West Landing, First Floor Room A134	NAD
33	Ceiling Concrete Skim Coat	Second Floor Room A238	NAD
34	Tan 9" Floor Tile with White and Brown Streaks	First Floor Mail Room A151	NAD

TABLE 4-3 : NON-ASBESTOS-CONTAINING MATERIAL
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

35	Mastic From Tan 9" Floor tile with White and Brown Streaks	First Floor Mail Room A151	NAD
36	Mastic From Black 12" Floor Tile	First Floor Dining Room	NAD
37	Black 12" Floor Tile with White Streaks	First Floor Dining Room	NAD
38	Mastic From Black 12" Floor Tile with White Streaks	First Floor Dining Room	< 1% Chrysotile
39	Cement on Fiberglass Breeching	Boiler Room	NAD
40	Exterior Window Caulk	Throughout	NAD
41	Gray 12" Floor Tile	ETC Bathroom Areas	NAD
42	Mastic From Gray 12" Floor Tile	ETC Bathroom Areas	NAD
43	Ceiling Tile - 2' X 2' Groove Pattern	ETC Throughout	NAD
44	Joint Compound	ETC Throughout	NAD
45	Sheetrock	ETC Throughout	NAD

NOTE: NAD indicates "No Asbestos Detected"

Exterior window glazing material was found to contain 3.5% chrysotile asbestos. Window caulking was found not to contain asbestos. The glazing material is hard and is nonfriable. The glazing is unlikely to release asbestos fibers under normal conditions, but would have to be addressed if the windows are replaced.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

5.0. DISCUSSION AND RECOMMENDATIONS

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: green 9" floor tile and mastic; light brown 9" floor tile and mastic; mastic from brown 12" floor tile (the tile does not contain asbestos); black 12" floor tile (the mastic does not contain asbestos); pipe and pipe fitting insulation; soft ceiling surfacing material in the Dining Room; one type of 12" square ceiling tile located at the west side of the second floor corridor; black tar adhesive used to affix blackboards to the wall; and exterior window glazing.

Floor tile in the building is generally in fair to good condition. Though the tile is unlikely to present a hazard unless it is actively disturbed, any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile (and mastic if applicable) as asbestos.

Asbestos-containing pipe and pipe fitting insulation is present in the building. The insulation is generally present in isolated areas such as pipe chases. It appears that the asbestos-containing thermal systems insulation in the basement should be assigned a moderate level of priority for abatement, due to its impact on future building maintenance activities.

A trowel-applied soft ceiling surfacing material in the Dining Room on the First Floor was found to contain asbestos. The surfacing is present above a layer of non-asbestos ceiling tile which is glued to the asbestos-containing ceiling material. Given that it is covered by the tile, it appears unlikely that the surfacing material would release asbestos fibers unless actively disturbed. Consequently, it appears that the material should be assigned a relatively low priority for abatement.

A type of 1' square ceiling tile present only at the west side of the second floor corridor was found to contain asbestos. It appears that this material should be assigned a moderate level of priority for abatement, due to their impact on future building maintenance activities.

Glue material ("glue dots") used to affix blackboards to the walls in classroom areas was found to contain 15% chrysotile asbestos. The glue is hard and is nonfriable. The material is unlikely to release asbestos fibers unless disturbed.

Exterior window glazing material was found to contain asbestos. Window caulking was found not to contain asbestos. The glazing material is hard and is nonfriable. The glazing is unlikely to release asbestos fibers under normal conditions, but would have to be addressed if the windows are replaced.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

6.0 ESTIMATED COST FOR ASBESTOS ABATEMENT

A cost estimate for abatement of all identified asbestos-containing materials in the building is outlined in Table 6-1. The estimated cost for abatement of the building (including thermal systems reinsulation) is $242,598. It should be noted that the cost estimate does not include removal of roofing materials. The cost estimate utilizes standard unit prices for removal of different types of asbestos-containing materials. When an actual asbestos abatement project is planned, a more precise estimate can be developed based on the specific work scope.

7.0. LIMITATIONS

The survey has the following limitations:

- DELTA's survey included an evaluation for the presence of asbestos-containing insulation on electrical equipment in the building. The inspection included building wiring, whips and fixtures. No suspect insulation was found. The inspection was designed to cover a representative portion of the building, since it was not feasible to examine all fixtures, junction boxes, etc.

TABLE 6-1: ASBESTOS ABATEMENT COST ESTIMATE
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT
(TOTAL ABATEMENT OF ASBESTOS-CONTAINING MATERIALS)

Building/Description	Quantity	Unit	Unit Cost	Subtotal Cost	Consultant (20%)	Contingency (10%)	Total Cost
REMOVAL							
Thermal Systems Insulation	231	SF	$10.00	$2,310	$462	$231	$3,003
Thermal Systems Insulation	3,249	LF	$15.00	$48,735	$9,747	$4,873	$63,355
Surfacing (Ceiling)	3,700	SF	$12.50	$46,250	$9,250	$4,625	$60,125
Misc. (VAT/Mastic)	7,155	SF	$5.00	$35,775	$7,155	$3,577	$46,507
Misc. (Ceiling Tile)	500	SF	$5.00	$2,500	$500	$250	$3,250
REPLACEMENT							
Thermal Systems Insulation	231	SF	$10.00	$2,310	$462	$231	$3,003
Thermal Systems Insulation	3,249	LF	$15.00	$48,735	$9,747	$4,873	$63,355
Surfacing		SF	N/A				
Misc.		SF	N/A				
GRAND TOTAL				$186,615	$37,323	$18,660	$242,598
						ABATEMENT ESTIMATE:	**$242,598**

NOTE: TABLE DOES NOT INCLUDE ABATEMENT OF ANY EXTERIOR ASBESTOS SUCH AS WINDOW CAULK OR ROOFING.

- The survey did not utilize "destructive" sampling methods, and therefore may not have identified all of the asbestos-containing materials in the building. Specifically, the inspection did not include areas enclosed by walls or ceilings, unless these spaces could be accessed without damage.

- The survey did not include destructive sampling of furnishings such as chalkboards, corkboards, fire doors and benchtops.

- The survey attempted to access and identify asbestos-containing materials associated with HVAC and mechanical systems. However, such systems were not dismantled during the inspection. It is possible that boilers, furnaces, fan units and other devices may contain gaskets and other interior asbestos material which can only be accessed through dismantling them. Care should be taken to avoid the accidental disturbance of asbestos during maintenance or repair work on such devices.

APPENDIX A

Inventory of Identified Asbestos-Containing Material

ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
BASEMENT													
	PIPE TUNNEL TO GIRLS												
ELEVATOR	ELEVATOR CAB FLOOR	26, 8	12" BROWN FLOOR TILE/MASTIC	< 1% / 14%	20								
A5	STORAGE												
A6	PHONE CLOSET												
A7	STORAGE	3	PIPE/FITTING INSULATION	70% / 65%				150	20				
A8	FORMER LIBRARY												NEWER FIBERGLASS PIPE INSUL.
A8	STORAGE @PIPE TUNNEL												
A8	PHONE ROOM/MDF												
A8	MEN'S BATHROOM												
A8	WOMEN'S BATHROOM												
A8	PIPE CHASE												
A8	REAR STORAGE												
	CORRIOOR												
	MAINTENANCE AREA	7, 8	9" LIGHT BROWN TILE/MASTIC	2% / 10%	2000								
	ELEVATOR MACHINE	1, 2	9" GREEN FLOOR TILE/MASTIC	7% / 28%	50								
	MAINTENANCE OFFICE	1, 2	9" GREEN FLOOR TILE/MASTIC	7% / 28%	300								
	COMPRESSOR ROOM												
	LADDER STORAGE												
	ELECTRICAL CLOSET												
	HOT WATER TANK ROOM												
	BOILER ROOM												POSSIBLE. INTERIOR ASB. IN BOILERS

ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
FIRST FLOOR													
	MAIN VESTIBULE												
	WAITING AREA OFF VEST.												
	BATHROOMS OFF VESTIBULE												
	CORR. NEAR ELEV.	26, 6	12" BROWN FLOOR TILE/MASTIC	< 1% / 14%	40								
	DINING ROOM	9	12" BLACK FLOOR TILE	2%	3700								
	DINING ROOM	4	SOFT CEILING PLASTER	4%		3700							NON-ASBESTOS CEILING TILE BELOW
	DINING ROOM	3	PIPE/FITTING INSULATION	70% / 65%				30	16				PRESENT ON PIPING TO GAS BLOWERS
	KITCHEN	3	PIPE/FITTING INSULATION	70% / 65%				170	26				
A121	VENDING MACHINES	11	GLUE BEHIND BLACKBOARDS	15%								150	
A122	CLASSROOM	11	GLUE BEHIND BLACKBOARDS	15%								150	
A121-A122	CORRIDOR	1, 2	9" GREEN FLOOR TILE/MASTIC	7% / 28%	10								TILE PRESENT AT NORTH END
A123	CLASSROOM	11	GLUE BEHIND BLACKBOARDS	15%								150	
A124	CLASSROOM	11	GLUE BEHIND BLACKBOARDS	15%								150	
A125	CLASSROOM	11	GLUE BEHIND BLACKBOARDS	15%								150	
A126	CLASSROOM	11	GLUE BEHIND BLACKBOARDS	15%								150	
A127	BATHROOM												
A128	CLASSROOM	11	GLUE BEHIND BLACKBOARDS	15%								150	
A129	PIPE CHASE	3	PIPE/FITTING INSULATION	70% / 65%				25	5				
A130	STORAGE												
A131	STORAGE												
A132	CLASSROOM	11	GLUE BEHIND BLACKBOARDS	15%								150	
A133	CLASSROOM	11	GLUE BEHIND BLACKBOARDS	15%								150	
A134	CONFERENCE	26, 6	12" BROWN FLOOR TILE/MASTIC	< 1% / 14%	25								VESTIBULE OUTSIDE CONFERENCE
A135	OFFICE												
A136	STORAGE												
A137	PIPE CHASE	3	PIPE/FITTING INSULATION	70% / 65%				40	6				
A138	CLOSET												
A139	CLOSET												
A140	ELEC. CLOSET												
A144	PIPE CHASE	3	PIPE/FITTING INSULATION	70% / 65%				50	5				
A145	ADMIN. OFFICE												
A146	OFFICE												
A147	OFFICE												
A148	STORAGE												INSULATION IN ENCLOSED CHASE
A149	OFFICE	3	PIPE/FITTING INSULATION	70% / 65%				8	1				
A150	OFFICE	3	PIPE/FITTING INSULATION	70% / 65%				80	22				
A151	MAIL ROOM												

ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
SECOND FL.													
	CORRIDOR	5	1' X 1' CEILING TILE - SMOOTH SURFACE	15%		500							TILE IS IN WEST SIDE OF CORRIDOR ONLY
	CORR. NEAR ELEVATOR	26, 6	12" BROWN FLOOR TILE/MASTIC	< 1% / 14%	40								
A231	OFFICE												
A232	OFFICE												
A233	OFFICE												
A234	OFFICE												
A235	OFFICE												
A236	OFFICE												
A237	OFFICE												
A238	OFFICE	3	PIPE/FITTING INSULATION	70% / 65%				30	2				
A239	KITCHENETTE												
A240	OFFICE												
A241	MAIN OFFICE												
A242	BATHROOM												
A243	OFFICE												
A244	PHONE CLOSET												
A245	PIPE CHASE	3	PIPE/FITTING INSULATION	70% / 65%				30	3				SOME DAMAGED INSULATION
A246	OFFICE												
A247	OFFICE	3	PIPE/FITTING INSULATION	70% / 65%				16	2				
A248	OFFICE												
A249	OFFICE												
A250	OFFICE												
A251	OFFICE												
A252	OFFICE												
A253	OFFICE												

ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
THIRD FLOOR													
	CORRIDOR												
	CORR. NEAR ELEVATOR	26, 6	12" BROWN FLOOR TILE/MASTIC	< 1% / 14%	40								
A322	OFFICE												
A323	OFFICE												
A324	OFFICE												
A325	OFFICE												
A326	OFFICE												
A327	OFFICE												
A328	OFFICE												
A329	PIPE CHASE	3	PIPE/FITTING INSULATION	70% / 65%				40	3				
A330	ELECTRICAL CLOSET												
	COMPUTER ROOM												
A331	BATHROOM												
A335													
ATTIC													
ATTIC													
STAIRWELLS													
EAST	EAST STAIRWELL LANDINGS	1, 2	9" GREEN FLOOR TILE/MASTIC	7% / 28%	250								BASEMENT LANDING
EAST	EAST STAIRWELL LANDINGS	1, 2	9" GREEN FLOOR TILE/MASTIC	7% / 28%	60								INTER. BETWEEN BASE. AND FIRST
EAST	EAST STAIRWELL LANDINGS	1, 2	9" GREEN FLOOR TILE/MASTIC	7% / 28%	60								FIRST FLOOR LANDING
WEST	WEST STAIRWELL LANDINGS	26, 6	12" BROWN FLOOR TILE/MASTIC	< 1% / 14%	280								BASEMENT LANDING
WEST	WEST STAIRWELL LANDINGS	1, 2	9" GREEN FLOOR TILE/MASTIC	7% / 19%	60								INTER. BETWEEN BASE. AND FIRST
WEST	WEST STAIRWELL LANDINGS	1, 2	9" GREEN FLOOR TILE/MASTIC	7% / 19%	60								FIRST FLOOR LANDING

ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
ETC AREA													
TUNNEL	STEAM PIPING TO ELEC ROOM	3	PIPE/FITTING INSULATION	70% / 65%				1000	30				QUANTITIES ARE ESTIMATES
BASEMENT													
CRAWLSPACE	STEAM PIPE CRAWLSPACE	3	PIPE/FITTING INSULATION	70% / 65%				1400	60				DIRT FLOOR; INSUL. IS IN FAIR CONDITION
FIRST FLOOR													
PIPE CHASE	ACCESS IN MEN'S BATHROOM	3	PIPE/FITTING INSULATION	70% / 65%				60	10				
SECOND FL.													
PIPE CHASE	ACCESS IN BATHROOM	3	PIPE/FITTING INSULATION	70% / 65%				60	10				
THIRD FLOOR													
PIPE CHASE	ACCESS IN BATHROOM	3	PIPE/FITTING INSULATION	70% / 65%				60	10				
STAIRWELLS													
NORTH	MAIN STAIRWELL	1, 2	9" GREEN FLOOR TILE/MASTIC	7% / 19%	80								INTER. LANDING BET. 1ST AND 2ND FL.
NORTH	MAIN STAIRWELL	1, 2	9" GREEN FLOOR TILE/MASTIC	7% / 19%	80								SECOND FLOOR LANDING

APPENDIX B

Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

ChemScope INDUSTRIAL HYGIENE • ENVIRONMENTAL CHEMISTRY
P.O. BOX 389 FAIR HAVEN STATION, NEW HAVEN, CT 06513-0389
15 Moulthrop Street., North Haven, CT 06473-3686 • Phone (203) 865-5605 • Fax (203) 498-1610

RECEIVED SEP 25 2000

Certificate Of Analysis

Delta Environmental Services, Inc.
PO Box 564
81 Schoolground Road
Branford CT 06405

9/21/00
CS# 142-666

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-1 Brown hard flooring material on beige woven material () / 1-Corridor Outside AIY5	*No Asbestos Detected* *39% Non- Fibrous Particles* *61% Volatile on Ignition*
142-666-2 Brown hard flooring material on beige woven material () / 2-Corridor Outside AIY9	*No Asbestos Detected* *49% Non- Fibrous Particles* *51% Volatile on Ignition*
142-666-3 Hard green 9x9 floor tile (on black mastic) / 3-Landing Between Basement and First Floor	*Not Analyzed*
142-666-4 Hard green 9x9 floor tile (on black mastic) / 4-Landing Between Basement and First Floor	*Not Analyzed*

NVLAP ACCREDITED LAB# 101061-0

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-5 Hard green 9x9 floor tile (on black mastic) / 5-Landing Between Basement and First Floor	*Not Analyzed*
142-666-6 Black mastic (from under sample #3) / 5-Landing Between Basement and First Floor	*28% Chrysotile Asbestos* *18% Non- Fibrous Particles* *54% Volatile on Ignition*
142-666-7 Black mastic (from under green 9x9 floor tile) / 6-Landing Between Basement and First Floor	*Not Analyzed*
142-666-8 Black mastic (from under green 9x9 floor tile) / 7-Landing Between Basement and First Floor	*Not Analyzed*
142-666-9 White hard plaster layer (on light gray granular plaster layer) / 8-East Stairwell Landing Between Second and Third Floors	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-10 Light gray granular plaster layer (from under sample #9) / 9-East Stairwell Landing Between Second and Third Floors	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-11 Hard brown 12x12 floor tile (on brown and black mastic) / 10-Third Floor in Front of Elevator	*<1% Chrysotile Asbestos* *77% Non- Fibrous Particles* *23% Volatile on Ignition*
142-666-12 Brown and black mastic (from under sample #11) / 10-Third Floor in Front of Elevator	*<1% Chrysotile Asbestos* *66% Non- Fibrous Particles* *34% Volatile on Ignition*
142-666-13 Brown brittle molding adhesive () / 11-Third Floor	*No Asbestos Detected* *50% Non- Fibrous Particles* *50% Volatile on Ignition*
142-666-14 Brown brittle molding adhesive () / 12-Third Floor	*No Asbestos Detected* *55% Non- Fibrous Particles* *45% Volatile on Ignition*
142-666-15 Brown brittle molding adhesive (on white hard plaster layer) / 13-Third Floor	*No Asbestos Detected* *51% Non- Fibrous Particles* *49% Volatile on Ignition*
142-666-16 White hard plaster layer (from under sample #15) / 13-Third Floor	*No Asbestos Detected* *100% Non- Fibrous Particles*

NVLAP **ACCREDITED LAB# 101061-0**

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-17 Hard brown 12x12 floor tile (on black mastic) / 14-First Floor in Front of Elevator	*Not Analyzed*
142-666-18 Black mastic (from under sample #17) / 14-First Floor in Front of Elevator	*12% Chrysotile Asbestos* *7% Non- Fibrous Particles* *81% Volatile on Ignition*
142-666-19 Gray fibrous 12x12 ceiling tile with a white face () / 15-Basement Cafeteria	*No Asbestos Detected* *15% Non- Fibrous Particles* *65% Mineral Wool* *20% Cellulose*
142-666-20 Brown hard glue dab () / 15A-Basement Cafeteria	*No Asbestos Detected* *52% Non- Fibrous Particles* *48% Volatile on Ignition*
142-666-21 Gray fibrous 12x12 ceiling tile with a white face () / 16-Basement Cafeteria	*No Asbestos Detected* *15% Non- Fibrous Particles* *65% Mineral Wool* *20% Cellulose*
142-666-22 Brown hard glue dab () / 16A-Basement Cafeteria	*No Asbestos Detected* *55% Non- Fibrous Particles* *45% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-23 Gray fibrous 12x12 ceiling tile with a white face () / 17-Basement Cafeteria	*No Asbestos Detected* *15% Non- Fibrous Particles* *65% Mineral Wool* *20% Cellulose*
142-666-24 Brown hard glue dab () / 17A-Basement Cafeteria	*No Asbestos Detected* *52% Non- Fibrous Particles* *48% Volatile on Ignition*
142-666-25 White crumbly joint compound with off-white painted face () / 18-Basement West Side Landing	*No Asbestos Detected* *87% Non- Fibrous Particles* *13% Volatile on Ignition*
142-666-26 White crumbly joint compound with off-white painted face () / 19-Basement West Side Landing	*No Asbestos Detected* *90% Non- Fibrous Particles* *10% Volatile on Ignition*
142-666-27 White crumbly joint compound with off-white painted face () / 20-Basement West Side Landing	*No Asbestos Detected* *85% Non- Fibrous Particles* *15% Volatile on Ignition*
142-666-28 Gray flexible molding (on brown and white adhesive) / 21-Basement West Side Landing	*No Asbestos Detected* *82% Non- Fibrous Particles* *18% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-29 Brown and white adhesive (from under sample #28) / 21-Basement West Side Landing	*No Asbestos Detected* *35% Non- Fibrous Particles* *65% Volatile on Ignition* *<1% Wollastonite*
142-666-30 Hard brown 12x12 floor tile (on black mastic) / 22-Basement West Side Landing	*Not Analyzed*
142-666-31 Black mastic (from under sample #30) / 22-Basement West Side Landing	*14% Chrysotile Asbestos* *26% Non- Fibrous Particles* *60% Volatile on Ignition*
142-666-32 Hard white 12x12 floor tiel with green streaks (on gray mastic) / 23-Basement Cafeteria	*No Asbestos Detected* *86% Non- Fibrous Particles* *14% Volatile on Ignition*
142-666-33 Hard white 12x12 floor tiel with green streaks (on gray mastic) / 24-Basement Cafeteria	*No Asbestos Detected* *85% Non- Fibrous Particles* *15% Volatile on Ignition*
142-666-34 Hard white 12x12 floor tiel with green streaks (on gray mastic) / 25-Basement Cafeteria	*No Asbestos Detected* *86% Non- Fibrous Particles* *14% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-35 Gray mastic (from under sample #32) / 23-Basement Cafeteria	*No Asbestos Detected* *42% Non- Fibrous Particles* *58% Volatile on Ignition*
142-666-36 Gray mastic (from under sample #33) / 24-Basement Cafeteria	*No Asbestos Detected* *18% Non- Fibrous Particles* *82% Volatile on Ignition*
142-666-37 Gray mastic (from under sample #34) / 25-Basement Cafeteria	*No Asbestos Detected* *31% Non- Fibrous Particles* *69% Volatile on Ignition*
142-666-38 Beige crumbly molding adhesive with a brown undercoating () / 26-Basement Cafeteria	*No Asbestos Detected* *83% Non- Fibrous Particles* *17% Volatile on Ignition*
142-666-39 Brown hard flooring material on brown woven material () / 27-Girl's Building G106	*No Asbestos Detected* *33% Non- Fibrous Particles* *67% Volatile on Ignition*
142-666-40 Brown hard flooring material on brown woven material () / 28-Girl's Building G106	*No Asbestos Detected* *28% Non- Fibrous Particles* *72% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-71 Black mastic (from under gray 9x9 floor tile) / 54-Wipple Room 165	*Not Analyzed*
142-666-72 White hard plaster layer (on light gray granular plaster layer) / 55-Girl's Building Second Floor Corridor	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-73 Light gray granular plaster layer (from under sample #72) / 56-Girl's Building Second Floor Corridor	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*
142-666-74 White hard plaster layer (on light gray granular plaster layer) / 57-Girl's Building Basement	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-75 Light gray granular plaster layer (from under sample #74) / 58-Girl's Building Basement	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*
142-666-76 White hard plaster layer (on light gray granular plaster layer) / 59-Administration Building Stairs to Basement Near A-B	*No Asbestos Detected* *100% Non- Fibrous Particles*

NVLAP ACCREDITED LAB# 101061-0

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-77 Light gray granular plaster layer (from under sample #76) / 60-Administration Building Stairs to Basement Near A-B	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair* *<1% Cellulose*
142-666-78 Gray fbrous 2x4 ceiling tile () / 61-Administration Building Landing Near A-B	*No Asbestos Detected* *15% Non- Fibrous Particles* *50% Cellulose* *35% Mineral Wool*
142-666-79 Gray fbrous 2x4 ceiling tile () / 62-Administration Building Landing Near A-B	*No Asbestos Detected* *15% Non- Fibrous Particles* *50% Cellulose* *35% Mineral Wool*
142-666-80 Gray fbrous 2x4 ceiling tile () / 63-Administration Building Landing Near A-B	*No Asbestos Detected* *15% Non- Fibrous Particles* *50% Cellulose* *35% Mineral Wool*
142-666-81 Dark gray hard ceiling cement skim coat with an off-white face () / 64-Room A238	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-82 Dark gray hard ceiling cement skim coat with an off-white face () / 65-Room A238	*No Asbestos Detected* *100% Non- Fibrous Particles*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-83 Dark gray hard ceiling cement skim coat with an off-white face () / 66-Room A238	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-84 White hard plaster layer (on light gray granular plaster layer) / 67-Room A238	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-85 Light gray granular plaster layer (from under sample #84) / 68-Room A238	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
142-666-86 White hard plaster layer (on light gray granular plaster layer) / 69-Room A238	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-87 Light gray granular plaster layer (from under asmple #86) / 69-Room A238	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
142-666-88 Light gray fibrous 12x12 type I ceiling tile (on brown hard glue dab) / 70-Administration Building Corridor Near A252 Second Floor-West Side	*15% Amosite Asbestos* *20% Non- Fibrous Particles* *65% Mineral Wool* *<1% Cellulose*

NVLAP ACCREDITED LAB# 101061-0

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-89 Light gray fibrous 12x12 type I ceiling tile (on brown hard glue dab) / 71-Administration Building Corridor Near A252 Second Floor-West Side	*Not Analyzed*
142-666-90 Light gray fibrous 12x12 type I ceiling tile (on brown hard glue dab) / 72-Administration Building Corridor Near A252 Second Floor-West Side	*Not Analyzed*
142-666-91 Brown hard glue dab (from under sample #88) / 70-Administration Building Corridor Near A252 Second Floor-West Side	*No Asbestos Detected* *52% Non- Fibrous Particles* *48% Volatile on Ignition*
142-666-92 Brown hard glue dab (from under sample #89) / 71-Administration Building Corridor Near A252 Second Floor-West Side	*No Asbestos Detected* *52% Non- Fibrous Particles* *48% Volatile on Ignition*
142-666-93 Brown hard glue dab (from under sample #90) / 72-Administration Building Corridor Near A252 Second Floor-West Side	*No Asbestos Detected* *54% Non- Fibrous Particles* *46% Volatile on Ignition*
142-666-94 White hard plaster layer (on light gray granular plaster layer) / 73-Administration Building Corridor Near A252 Second Floor-West Side	*No Asbestos Detected* *100% Non- Fibrous Particles*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-95 Light gray granular plaster layer (from under sample #94) / 74-Administration Building Corridor Near A252 Second Floor-West Side	*2% Amosite Asbestos* *88% Non- Fibrous Particles* *10% Mineral Wool* *<1% Cellulose* *<1% Horse Hair*
142-666-96 Tan fibrous 12x12 large pinhole ceiling tile with a white face () / 75-Administration Building Corridor Second Floor-East Side	*No Asbestos Detected* *2% Non- Fibrous Particles* *98% Cellulose*
142-666-97 Tan fibrous 12x12 large pinhole ceiling tile with a white face () / 76-Administration Building Corridor Second Floor-East Side	*No Asbestos Detected* *2% Non- Fibrous Particles* *98% Cellulose*
142-666-98 Tan fibrous 12x12 large pinhole ceiling tile with a white face () / 77-Administration Building Corridor Second Floor-East Side	*No Asbestos Detected* *2% Non- Fibrous Particles* *98% Cellulose*
142-666-99 Brown hard glue dab (from under 12x12 ceilign tile) / 78-Administration Building Corridor Second Floor-East Side	*No Asbestos Detected* *48% Non- Fibrous Particles* *52% Volatile on Ignition*
142-666-100 White hard plaster layer (on light gray granular plaster layer) / 79-G104	*No Asbestos Detected* *100% Non- Fibrous Particles*

NVLAP ACCREDITED LAB# 101061-0

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings

AIHA Bulk Asbestos Proficiency Analytical Testing (PAT) Program. PAT Proficient Lab #100134
Accreditation by the National Institute of Standards and Technology/National Voluntary Lab Accreditation Program (NVLAP) does not imply endorsement by this Federal Agency.
This report pertains only to the samples tested and may not be reproduced in part.
The scope of Accreditation referenced in this report pertains to bulk asbestos analysis by PLM.
Connecticut Approved Environmental Lab PH 0581
See test parameters on reverse side of this report.

Signature (if applicable)	Signature (if applicable)	*Authorized Signature:*	or	*Authorized Signature:*
Analyst	Inspector	*Ronald D. Arena* *Director*		*Suzanne Cristante* *QA Coordinator*

NVLAP ACCREDITED LAB# 101061-0

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
1	Imitation wood Linoleum						No Asbestos Detected	Corridor outside A145				
2	↓						No Asbestos Detected.	Corridor outside A149				
3	Green 9" Floor Tile						Not Analyzed	Landing between Basement/First Floor				
4	↓						↓	↓				
5	↓						↓	↓				
6	Mastic from Green 9" Floor Tile						28% Chrysotile Asbestos.	↓				
7	↓							↓				
8	Wall plaster Top Coat						No Asbestos Detected	East Stairwell Landing between 2nd & 3rd				
9	Wall plaster Brown Coat						No Asbestos Detected.	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patrick	9-19-00	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

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ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
10	Brown 12" Floor Tile							3rd Floor in Front of Elevator				
11	Molding Adhesive							Third Floor				
12	↓							↓				
13	Molding Adhesive with plaster top layer							↓				
14	Brown 12" Floor Tile							1st Floor in Front of Elevator				
15	12"x12" Ceiling Tile						No Asbestos Detected	Basement Cafeteria				
15A	Glue Dot						No Asbestos Detected	↓				
16	12" x 12" Ceiling Tile							↓				
16A	Glue Dot							↓				

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SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Paluch	9-19-00	1:00p
				2					
				3					
				4					

ADDITIONAL COMMENTS:

DELTA Environmental Services, Inc.

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

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ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
17	12" x 12" Ceiling Tile							Basement Cafeteria				
17A	Glue Dot							↓				
18	Joint Compound							Basement West Side Landing				
19	↓							↓				
20	↓							↓				
21	Molding Adhesive							↓				
22	Brown 12" Floor Tile							↓				
23	White 12" Floor Tile w/ Green Streaks							Basement Cafeteria				
24	↓							↓				

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SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patnett	9-19-00	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

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ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
25	White 12" Floor Tile w/ Green Streak							Basement Cafeteria				
26	Molding Adhesive							↓				
27	Brown Linoleum						No Asbestos Detected	Girl's Building G106				
28	↓						↓	↓				
29	↓						↓	↓				
30	Tan 12" Floor Tile							G106 (Salient Area)				
31	↓							↓				
32	↓							↓				
33	Wall Plaster Top Coat						No Asbestos Detected	↓				

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Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patucell	4-19-00	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: P97-148-24

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ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
34	Wall plaster Brown coat						No Asbestos Detected	G106				
35	Wall plaster top coat						↓	G107				
36	Wall plaster Brown coat						↓	↓				
37	Joint Compound Partition wall											
38	↓											
39	↓											
40	Sheetrock Partition wall											
41	↓											
42	↓							↓				

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Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patucci	9-19-00	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME:	PROJECT LOCATION:	PROJECT NUMBER:
Mystic Education Center	Mystic, CT	D97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
43	Pipe Insulation							Kitchen Area Near GIF above Ceiling				
44	2 x 4 Suspended Ceiling Tile											
45												
46												
47	Wall plaster Top Coat						No Asbestos	Stairwell Landing to Basement Kitchen Area				
48	Wall plaster Brown Coat						No Asbestos					
49	Light Brown 9" Floor Tile						Not Analyzed.	Whipple Corridor No. 1 Near Dining Rm				
50	Mastic From Light Brown 9" Floor Tile						11% Chrysotile Asbestos					
51	Gray 9" Floor Tile						Not Analyzed	Room 165 Whipple				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

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				1			G. Patucelli	9-19-00	1:00pm
ADDITIONAL COMMENTS:				2					
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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

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ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
52	Gray 9" Floor Tile							Room 165 Whipple				
53	↓							↓				
54	Mastic from Gray 9" Floor Tile						8% Chrysotile Asbestos	↓				
55	Wall plaster top coat							Girls' Building 2nd Floor Corridor				
56	Wall plaster Brown coat							↓				
57	Wall plaster top coat						No Asbestos	Girls' Building Basement				
58	Wall plaster Brown coat						No Asbestos	↓				
59	Wall plaster top coat						No Asbestos	Admin. Bldg. Stairs to Basement Near A-B				
60	Wall plaster Brown coat						No Asbestos	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patucci	9-19-00	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

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ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
61	Ceiling Tile 2'x4' suspended							Landing near A-8 (Admin. Bldg)				
62	↓							↓				
63	↓							↓				
64	Ceiling Cement/ Skim Coat							Room A238				
65	↓							↓				
66	↓							↓				
67	Wall Plaster Top Coat							↓				
68	Wall Plaster Bottom Coat							↓				
69	Wall Plaster Bottom Coat						White-No Asbestos Lt gray-No Asbestos	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	~~ACCEPTED BY~~	DATE	TIME
				1			G. Palucelli	9-19-00	1:00pm
				2					
				3					
				4					

ADDITIONAL COMMENTS:

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CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-140-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
70	12" x 12" Ceiling Tile + Type 1	Glue Dot					15% Amosite Asbestos	Admin. Bldg Corridor Near A252 2nd Floor - West side				
71												
72												
73	Ceiling Plaster Top Coat						No Asbestos.					
74	Ceiling Plaster Brown Coat						2% Amosite Asbestos					
75	12" x 12" Ceiling Tile Large Pinhole						No Asbestos.	Admin Bldg Corridor 2nd Floor - East side				
76												
77												
78	Glue Dot from 12" x 12" Ceiling Tile											

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Palucitt	9-19-00	1:00 pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405

(203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D 97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
79	Ceiling plaster Both Layers							G 104				
80	Pipe fitting on Fiberglass Insulation						No Asbestos Detected.	Whipple-corridor above ceiling near 156				
81	↓							↓				
82	↓							↓				
83	Tan 9" Dot Pattern Floor Tile						3% Chrysotile Asbestos	Whipple Corridor Connecting Passage				
84	↓							↓				
85	↓							↓				
86	Light Brown 9" Floor Tile	[illegible]						Whipple Corridor near Exit				
87	↓							↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patricelli	9-19-00	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D 97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
88	Green 9" Floor Tile							Whizzle Cafeteria				
89	↓							↓				
90	↓							↓				
91	Beige 9" Floor Tile							↓				
92	↓							↓				
93	↓							↓				
94	2x2' Suspd. Ceiling Tile							Whizzle Corridor				
95	↓							↓				
96	↓							↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Paluch	9-19-00	1:00p
ADDITIONAL COMMENTS:				2					
				3					
				4					

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEdu.Ctr.;Admin.Bldg.,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248491 **Material Description:** Brown/White
Client No.: 27 **Location:** Ceiling Tile Room A124

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	95	Cellulose	5

Lab No. 1248492 **Material Description:** Brown/White
Client No.: 28 **Location:** Ceiling Tile Room A124

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	95	Cellulose	5

Lab No. 1248493 **Material Description:** Brown/White
Client No.: 29 **Location:** Ceiling Tile Room A124

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	95	Cellulose	5

Lab No. 1248494 **Material Description:** Tan Mastic
Client No.: 30 **Location:** A/W Ceiling Tile Room A124

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEdu.Ctr.;Admin.Bldg.,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248495
Client No.: 31
Material Description: Tan Mastic
Location: A/W Ceiling Tile Room A124

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1248496
Client No.: 32
Material Description: Tan Mastic
Location: A/W Ceiling Tile Room A124

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1248497
Client No.: 33
Material Description: Brown Mastic
Location: A/W Ceiling Tile Room A124

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC Trace	Tremolite	8	Other	92

Lab No. 1248498
Client No.: 34
Material Description: Brown Mastic
Location: A/W Ceiling Tile Room A124

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC Trace	Tremolite	6	Other	94

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____
Frank B. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEdu.Ctr.;Admin.Bldg.,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248499
Client No.: 35
Material Description: Brown Mastic
Location: A/W Ceiling Tile Room A124

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC Trace	Chrysotile	8	Other	92

Lab No. 1248500
Client No.: 36
Material Description: Black Tar
Location: Room A124 A/W Blackboard

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
15	Chrysotile	None Detected	None Detected	85

Lab No. 1248501
Client No.: 37
Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1248502
Client No.: 38
Material Description: Sample Not Analyzed
Location:

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____
Frank E. Ehrenfeld, III.
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MystioEdu.Ctr.;Admin.Bldg.,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248503
Client No.: 39
Material Description: Brown/WhiteSheetrock
Location: Basement West Landing

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	90	Cellulose	10

No Joint Compound

Lab No. 1248504
Client No.: 40
Material Description: Brown/WhiteSheetrock
Location: Basement West Landing

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	95	Cellulose	5

No Joint Compound

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____
Frank E. Ehrenfeld, III
Laboratory Director

ATL International Asbestos Testing Laboratories
16000 Hoi Unit 100 NJ 08034
Telephone: 609.231.9449 Fax: 609.231.9818

972/9

- Chain of Custody -

Client: Delta Environmental Services
P.O. Box 564
Branford, CT 06405

Phone: (203) 481-7668
FAX: (203) 488-8164

Project Name: Mystic Education Center
Project No.: Mystic, CT
D97-148-24

Contact: Jim McCarthy
Pager:

Special Instructions:

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[✓] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400
[ ] PCM : OSHA
[ ] PCM : Other_____

[ ] AAS : NIOSH 7082 (Air)
[ ] AAS : Lead in Drinking Water
[ ] AAS : Lead in Paint ASTM D3335-85a
[ ] AAS : Lead Dust/Wipe
[ ] AAS : Other Metals / Soil_____

[✓] PLM : Bulk Asbestos EPA 600
[ ] PLM : Point Counting 198.1
[ ] PLM : NOB via 198.1 (PLM only)
[ ] If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements **
(**call to confirm TATI)

[ ] TEM : AHERA
[ ] TEM : NIOSH 7402
[ ] TEM : EPA Level II
[ ] TEM : Microvac Dust
[ ] TEM : Asbestos in Water
[ ] TEM : Bulk Analysis
[ ] TEM : NOB 198.4
[ ] TEM : Other_____
[ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ date / time Verbals: _____ date / time

[ ] 10 Day [ ] 5 Day [ ] 72 hour [✓] 48 hour [ ] 24 hour [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

~42

Client #(s): _____ (start) - _____ (end) IATL#(s): _____ (start) - _____ (end) Total: ___

Chain of Custody:

Relinquished:	James R McCarthy	Date: 3/27/01	Time: 12:00 PM
Received:		Date:	Time:
Sample Log-in:	003/292/50	Date:	Time:
Sample Prep:		Date:	Time:
Analyzed:	[signature]	Date: 3/31/01	Time:
QA/QC Review:		Date:	Time:

MAR 29 2001

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405
(203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center
PROJECT LOCATION: Administration Building Mystic, CT
PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well; SG = Sludge; X = Other; Specify; O = Outfall; S = Soil; WO = Waste Oil; R = River/Stream; RO = Run Off; LF = Landfill; B = Bottom Sediment; WW = Wastewater; SW = Sewage; L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED		COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
27	Symmetrical Pinhole Ceiling Tile						Asbestos Plm EPA 600 1248491	Positive Stop	from A124				
28							1248492						
29							1248493						
30	Brown Glue Dot From Symmetrical Pinhole Ceiling Tile						1248494	Positive Stop					
31							1248495						
32							1248496						
33	Dark Brown Glue Dot From Asymmetrical Pinhole Ceiling Tile						1248497	Positive Stop					
34							1248498						
35							1248499						

Container Codes: P = Plastic; E = EPA VIBL; G = Glass; A = Amber Glass; B = Bacteria Bottle
Preservative Codes: I = Iced; F = Filtered; N = Nitric Acid (HNO_3); H = Hydrochloric Acid (HCl); S= Sodium Hydroxide (NaOH); T = Sodium Thiosulfate; F = Sulfuric Acid; O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James A Melanthos	Delta	3/26/01	3:00 PM	1	1-9	James A Melanthos			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405
(203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Administration Building Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well; SG = Sludge; X = Other; Specify; O = Outfall; S = Soil; WO = Waste Oil; R = River/Stream; RO = Run Off; LF = Landfill; B = Bottom Sediment; WW = Wastewater; SW = Sewage; L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
36	Black Tarry Adhesive From Behind Blackboard						1248500 Positive Stop	Room A124				
37	↓						1248501 ↓	↓				
38	↓						1248502	Basement West Landing				
39	Sheetrock						1248503	↓				
40	↓						1248504					

Container Codes: P = Plastic; E = EPA VIAL; G = Glass; A = Amber Glass; B = Bacteria Bottle
Preservative Codes: I = Iced; F = Filtered; N = Nitric Acid (HNO_3); H = Hydrochloric Acid (HCl); S= Sodium Hydroxide (NaOH); T = Sodium Thiosulfate; E = Sulfuric Acid; O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1					
				2					
				3					
				4					

ADDITIONAL COMMENTS:

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 11/24/2000
Project: Mystic Education Center, 11-14-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1184278 **Material Description:** Brown Floor Tile
Client No.: 97 **Location:** Basement Maintenance Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC Trace	Chrysotile	None Detected	None Detected	100
No Mastic				

Lab No. 1184279 **Material Description:** Black Mastic
Client No.: 98 **Location:** Basement Maintenance Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1184280 **Material Description:** White Ceiling Tile
Client No.: 127 **Location:** Girls Bldg. Copy Center

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 5.4	Amosite	70	Fibrous Glass	PC 24.6

Lab No. 1184281 **Material Description:** Sample Not Analyzed
Client No.: 128 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: [signature] Grohmann

Date: [illegible] 2000

Approved By: [signature]
Frank E. Ehrenfeld, III
Laboratory Director

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED		COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
97	Brown 9" Floor Tile						1184278		Basement Maintenance Shop				
98	Mastic From Above						1184279		↓				
127	12" Ceiling Tile						1184280	Please use positive stop	Girls' Bldg. Copy center				
128	↓						1184281	↓	↓				
129	↓						1184282	↓	↓				
130	12" Beige Floor Tile						1184283	Please use positive stop	G 215				
131	↓						1184284	↓	G 210				
132	↓						1184285	↓	G 207				
133	12" Brown/Tan Floor Tile						1184286	Please use positive stop with #BY125	2nd Floor Corridor				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Thiosulfate (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1					
				2					
				3					
				4					

ADDITIONAL COMMENTS:

ChemScope INDUSTRIAL HYGIENE • ENVIRONMENTAL CHEMISTRY
P.O. BOX 389 FAIR HAVEN STATION, NEW HAVEN, CT 06513-0389
15 Moulthrop Street., North Haven, CT 06473-3686 • Phone (203) 865-5605 • Fax (203) 498-1610

RECEIVED NOV 20 2000

Certificate Of Analysis

Delta Environmental Services, Inc.
PO Box 564
81 Schoolground Road
Branford CT 06405

11/27/00
CS# 143-248

Bulk sample(s) from Mystic Educational Center, Mystic CT received from customer on 11/15/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
143-248-1 White hard plaster top coat with a white face (ceiling) / 99-Administration Building-Basement-Mens' Room	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose*
143-248-2 Brown granular plaster layer (ceiling) / 100-Administration Building-Basement-Mens' Room	*No Asbestos Detected* *100% Non- Fibrous Particles*
143-248-3 White hard plaster top coat on gray granular plaster layer with a beige face (ceiling) / 101-Administration Building-Corridor-Near A251	*No Asbestos Detected* *100% Non- Fibrous Particles*
143-248-4 Gray granular plaster layer (ceiling) / 102-Administration Building-Corridor-Near A251	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose*

NVLAP ACCREDITED LAB# 101061-0 .

Bulk sample(s) from Mystic Educational Center, Mystic CT received from customer on 11/15/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
143-248-5 White hard plaster top coat with an off-white face (wall) / 103-Administration Building-Near A251	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Synthetic Fibers*
143-248-6 Gray granular plaster layer (wall) / 104-Administration Building-Near A251	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
143-248-7 White hard plaster top coat with a pale blue face (wall) / 105-Administration Building-Third Floor-Corridor	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose*
143-248-8 Gray granular plaster layer (wall) / 106-Administration Building-Third Floor-Corridor	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
143-248-9 White hard plaster top coat on gray granular plaster layer with a pale blue face (ceiling) / 107-Administration Building-Third Floor Corridor-Opposite A328	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
143-248-10 White hard plaster top coat on gray granular plaster layer with a pale blue face (ceiling) / 108-Administration Building-Third Floor Corridor-Opposite A328	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*

NVLAP ACCREDITED LAB# 101061-0

Bulk sample(s) from Mystic Educational Center, Mystic CT received from customer on 11/15/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings

AIHA Bulk Asbestos Proficiency Analytical Testing (PAT) Program. PAT Proficient Lab #100134
Accreditation by the National Institute of Standards and Technology/National Voluntary Lab Accreditation Program (NVLAP) does not imply endorsement by this Federal Agency.
This report pertains only to the samples tested and may not be reproduced in part.
The scope of Accreditation referenced in this report pertains to bulk asbestos analysis by PLM.
Connecticut Approved Environmental Lab PH 0581
See test parameters on reverse side of this report.

Signature (if applicable)	Signature (if applicable)	*Authorized Signature:*	or	*Authorized Signature:*
Analyst	Inspector	*Ronald D. Arena* *Director*		*Suzanne Cristante* *QA Coordinator*

NVLAP ACCREDITED LAB# 101061-0

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Educational Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
99	Plaster Top Coat						PLEASE USE - SAMPLES POSITIVE STOP 99-108	Admin. Bldg Basement-Mens Room Ceiling				
100	Plaster Brown Coat											
101	Plaster Both Layers						No Asbestos Detected.	Admin Bldg Corridor Ceiling Near A251				
102	Plaster Brown Coat						No Asbestos Detected					
103	Wall Plaster Top Coat						No Asbestos Detected	Admin Bldg Near A251				
104	Wall Plaster Brown Coat						No Asbestos Detected					
105	Wall Plaster Top Coat							3rd Floor Admin. Bldg. Corridor				
106	Wall Plaster Brown Coat											
107	Ceiling Plaster Both Layers							3rd Floor Corridor Admin Bldg Opposite A328				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	~~ACCEPTED BY~~	DATE	TIME
				1			G. Patterson	11-15-00	9:53am
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Educational Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
108	Ceiling Brown Plaster Layers							3rd Floor Corridor Admin Bldg Outside A32e				
109	Wall Plaster Top Coat						PLEASE USE SAMPLES 109-126 POSITIVE STOP	G101 - North Wall				
110	Wall Plaster Brown Coat						No Asbestos Detected No Asbestos Detected	↓				
111	Wall Plaster Top Coat							G101 - SE Corner				
112	Wall Plaster Brown Coat							↓				
113	Ceiling Plaster Top Coat							G103				
114	Ceiling Plaster Brown Coat							↓				
115	Wall Plaster Top Coat							G110				
116	Wall Plaster Brown Coat						↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patucelli	11-15-00	9:55am
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Educational Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
117	Wall plaster Brown coat						PLEASE USE POSITIVE STOP SAMPLES 109-126 No Asbestos Detected	Girls' Bldg Room below G101 Near wall				
118	↓						No Asbestos Detected	↓ Far wall				
119	Wall plaster Top coat							Room G7				
120	Wall plaster Brown coat							↓				
121	Wall plaster Top coat							Room G5				
122	Wall plaster Brown coat							↓				
123	Wall plaster Top coat							Room G8				
124	Wall plaster Brown coat							↓				
125	Wall plaster Top coat						↓	Room G216				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patricelli	11-15-00	9:53am
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
1	126 Wall Plaster Brown Coat							Room 6216				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patrick	11-15-00	9:53am
ADDITIONAL COMMENTS:				2					
				3					
				4					

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Administration Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217321 **Material Description:** Tan Window Caulk
Client No.: 142 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1217322 **Material Description:** Tan Window Caulk
Client No.: 143 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1217323 **Material Description:** Tan Window Caulk
Client No.: 144 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1217324 **Material Description:** Grey Window Glaze
Client No.: 145 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.5	Chrysotile	None Detected	None Detected	PC 96.5

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: Graciola Manjarres U.

Date: Graciola Manjarres N., AIHA-AAP [illegible]

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Administration Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217325 **Material Description:** Sample Not Analyzed
Client No.: 146 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1217326 **Material Description:** Sample Not Analyzed
Client No.: 147 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: Graciela Manjarres U.

Approved By: Frank Ehrenfeld

Date: Graciela Manjarres N., AIHA-AAE [illegible]

Frank E. Ehrenfeld, III
Laboratory Director

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Administration Building

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify ___ O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
142	Window Caulk				12	17321	Asbestos PCM EPA 600 — Please use positive stop					
143	↓				12	17322	↓					
144	↓				12	17323	↓					
145	Window Glazing				12	17324	Please use positive stop					
146	↓				12	17325	↓					
147	↓				12	17326	↓					

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify ___

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melatto	Delta			1		James R Melatto			
				2					
				3					
				4		[illegible]		1/31/7	001

ADDITIONAL COMMENTS:

ChemScope INDUSTRIAL HYGIENE • ENVIRONMENTAL CHEMISTRY
P.O. BOX 389 FAIR HAVEN STATION, NEW HAVEN, CT 06513-0389
15 Moulthrop Street., North Haven, CT 06473-3686 • Phone (203) 865-5605 • Fax (203) 498-1610

RECEIVED JAN 3 2001

Certificate Of Analysis

Delta Environmental Services, Inc.
PO Box 564
81 Schoolground Road
Branford CT 06405

1/8/01
CS# 143-726
Page 1 of 10

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 1/4/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
143-726-1 Light brown 9x9 floor tile with white streaks (on orange mastic) / 1-Administrative Building A151	*No Asbestos Detected* *58% Non- Fibrous Particles* *3% Wollastonite* *39% Volatile on Ignition*
143-726-2 Light brown 9x9 floor tile with white streaks (on orange mastic) / 2-Administrative Building A151	*No Asbestos Detected* *58% Non- Fibrous Particles* *3% Wollastonite* *39% Volatile on Ignition*
143-726-3 Light brown 9x9 floor tile with white streaks (on orange mastic) / 3-Administrative Building A151	*No Asbestos Detected* *57% Non- Fibrous Particles* *3% Wollastonite* *40% Volatile on Ignition*
143-726-4 Orange mastic (from under sample #1) / 1-Administrative Building A151	*No Asbestos Detected* *45% Non- Fibrous Particles* *55% Volatile on Ignition*

NVLAP ACCREDITED LAB# 101061-0

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 1/4/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
143-726-5 Orange mastic (from under sample #2) / 2-Administrative Building A151	*No Asbestos Detected* *39% Non- Fibrous Particles* *61% Volatile on Ignition*
143-726-6 Orange mastic (from under sample #3) / 3-Administrative Building A151	*No Asbestos Detected* *30% Non- Fibrous Particles* *70% Volatile on Ignition*
143-726-7 Red 9x9 floor tile with white streaks (on black mastic) / 4-Girl's Building-Room G7	*3% Chrysotile Asbestos* *71% Non- Fibrous Particles* *26% Volatile on Ignition*
143-726-8 Red 9x9 floor tile with white streaks (on black mastic) / 5-Girl's Building-Room G7	*Not Analyzed*
143-726-9 Red 9x9 floor tile with white streaks (on black mastic) / 6-Girl's Building-Room G7	*Not Analyzed*
143-726-10 Black mastic (from under sample #4) / 4-Girl's Building-Room G7	*14% Chrysotile Asbestos* *22% Non- Fibrous Particles* *64% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 1/4/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
143-726-23 Brown brittle base molding adhesive () / 14-Girl's Building-Room G7	*No Asbestos Detected* *45% Non- Fibrous Particles* *2% Non- Asbestos Rods* *53% Volatile on Ignition*
143-726-24 Brown brittle base molding adhesive () / 15-Girl's Building-Room G7	*No Asbestos Detected* *43% Non- Fibrous Particles* *2% Non- Asbestos Rods* *55% Volatile on Ignition*
143-726-25 Black 12x12 floor tile (on brown mastic) / 16-Administration Building-Dining Room	*1-2% Chrysotile Asbestos* *70% Non- Fibrous Particles* *28% Volatile on Ignition*
143-726-26 Black 12x12 floor tile (on brown mastic) / 17-Administration Building-Dining Room	*Not Analyzed*
143-726-27 Black 12x12 floor tile (on brown mastic) / 18-Administration Building-Dining Room	*Not Analyzed*
143-726-28 Brown mastic (from under sample #25) / 16-Administration Building-Dining Room	*No Asbestos Detected* *20% Non- Fibrous Particles* *80% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 1/4/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
143-726-29 Brown mastic (from under sample #26) / 17-Administration Building-Dining Room	*No Asbestos Detected* *19% Non- Fibrous Particles* *81% Volatile on Ignition*
143-726-30 Brown mastic (from under sample #27) / 18-Administration Building-Dining Room	*No Asbestos Detected* *17% Non- Fibrous Particles* *83% Volatile on Ignition*
143-726-31 White crumbly adhesive (on fiberglass breeching) / 19-Administration Building-Boiler Room	*No Asbestos Detected* *42% Non- Fibrous Particles* *18% Fiberglass* *40% Volatile on Ignition*
143-726-32 White crumbly adhesive (on fiberglass breeching) / 20-Administration Building-Boiler Room	*No Asbestos Detected* *43% Non- Fibrous Particles* *18% Fiberglass* *39% Volatile on Ignition*
143-726-33 White crumbly adhesive (on fiberglass breeching) / 21-Administration Building-Boiler Room	*No Asbestos Detected* *43% Non- Fibrous Particles* *19% Fiberglass* *38% Volatile on Ignition*
143-726-34 Light gray crumbly 1x1 ceiling tile with a grooved pattern (on brown hard glue dab) / 22-Administration Building-Dining Room	*No Asbestos Detected* *9% Non- Fibrous Particles* *77% Mineral Wool* *14% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 1/4/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
143-726-35 Light gray crumbly 1x1 ceiling tile with a grooved pattern (on brown hard glue dab) / 23-Administration Building-Dining Room	*No Asbestos Detected* *9% Non- Fibrous Particles* *78% Mineral Wool* *13% Volatile on Ignition*
143-726-36 Light gray crumbly 1x1 ceiling tile with a grooved pattern (on brown hard glue dab) / 24-Administration Building-Dining Room	*No Asbestos Detected* *9% Non- Fibrous Particles* *78% Mineral Wool* *13% Volatile on Ignition*
143-726-37 Brown hard glue dab (from under sample #34) / 22-Administration Building-Dining Room	*<1% Chrysotile Asbestos* *54% Non- Fibrous Particles* *46% Volatile on Ignition*
143-726-38 Brown hard glue dab (from under sample #35) / 23-Administration Building-Dining Room	*<1% Chrysotile Asbestos* *50% Non- Fibrous Particles* *50% Volatile on Ignition*
143-726-39 Brown hard glue dab (from under sample #36) / 24-Administration Building-Dining Room	*<1% Chrysotile Asbestos* *50% Non- Fibrous Particles* *50% Volatile on Ignition*
143-726-40 Beige granular plaster (ceiling) / 25-Administration Building-Dining Room	*4% Chrysotile Asbestos* *81% Non- Fibrous Particles* *15% Wollastonite*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 1/4/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
143-726-41 Black 12x12 floor tile (on tan and black mastic) / 26-Administration Building-Dining Room	*Na Asbestos Detected* *85% Non- Fibrous Particles* *15% Volatile on Ignition*
143-726-42 Black 12x12 floor tile (on tan and black mastic) / 27-Administration Building-Dining Room	*No Asbestos Detected* *81% Non- Fibrous Particles* *19% Volatile on Ignition*
143-726-43 Black 12x12 floor tile (on tan and black mastic) / 28-Administration Building-Dining Room	*No Asbestos Detected* *80% Non- Fibrous Particles* *20% Volatile on Ignition*
143-726-44 Tan and black mastic (from under sample #41) / 26-Administration Building-Dining Room	*<1% Chrysotile Asbestos* *70% Non- Fibrous Particles* *30% Volatile on Ignition*
143-726-45 Tan and black mastic (from under sample #42) / 27-Administration Building-Dining Room	*<1% Chrysotile Asbestos* *57% Non- Fibrous Particles* *43% Volatile on Ignition*
143-726-46 Tan and black mastic (from under sample #43) / 28-Administration Building-Dining Room	*<1% Chrysotile Asbestos* *37% Non- Fibrous Particles* *63% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 1/4/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
143-726-47 Tan 9x9 floor tile (on black mastic) / 29-Administration Building-Basement Maintenance Shop	*1-2% Chrysotile Asbestos* *74% Non- Fibrous Particles* *24% Volatile on Ignition*
143-726-48 Tan 9x9 floor tile (on black mastic) / 30-Administration Building-Basement Maintenance Shop	*Not Analyzed*
143-726-49 Black mastic (from under sample #47) / 29-Administration Building-Basement Maintenance Shop	*10% Chrysotile Asbestos* *13% Non- Fibrous Particles* *77% Volatile on Ignition*
143-726-50 Black mastic (from under sample #48) / 30-Administration Building-Basement Maintenance Shop	*Not Analyzed*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 1/4/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings

AIHA Bulk Asbestos Proficiency Analytical Testing (PAT) Program. PAT Proficient Lab #100134
Accreditation by the National Institute of Standards and Technology/National Voluntary Lab Accreditation Program (NVLAP) does not imply endorsement by this Federal Agency.
This report pertains only to the samples tested and may not be reproduced in part.
The scope of Accreditation referenced in this report pertains to bulk asbestos analysis by PLM.
Connecticut Approved Environmental Lab PH 0581
See test parameters on reverse side of this report.

Signature (if applicable)	Signature (if applicable)	*Authorized Signature:*	or	*Authorized Signature:*
Analyst	Inspector	*Ronald D. Arena* *Director*		*Suzanne Cristante* *QA Coordinator*

NVLAP ACCREDITED LAB# 101061-0

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
1	Tan 9" Floor Tile						Asbestos PLM EPA 600	Admin Bldg A 151 Please Analyze Both Tile & Mastic				
2	↓							Admin Bldg A 151				
3	↓							↓				
4	Red-Brick Color 9" Floor Tile							Girls Building Room G7				
5	↓							↓				
6	↓							↓				
7	2x4 Suspended Ceiling Tile Type 2							Girls Building Room G7				
8	↓							Girls Building Room G8				
9	↓							Girls Building Room G13				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melnotte	Delta			1	1-9	James R Melnotte	G. Patricelli	1-4-01	
				2					
				3					
				4					

ADDITIONAL COMMENTS: Please use positive stop - Analyze at least one sample of each tile even if mastic is positive

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
10	Green 9" Floor Tile						Asbestos PLM EPA 600	Girls' Building Room 68				
11	↓							↓				
12	↓							↓				
13	Base Molding Adhesive							Girls' Building Room 67				
14	↓							↓				
15	↓							↓				
16	Black 12" Floor Tile							Admin. Bldg Dining Room				
17	↓							↓				
18	↓							↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melnotte	Delta			1	10-18	James R Melnotte	G. Patucelli	1-4-01	
				2					
				3					
				4					

ADDITIONAL COMMENTS:

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify ___, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
19	Adhesive on Fiberglass Breeching						Asbestos PLM EPA 600	Admin Bldg. Boiler Room				
20	↓							↓				
21	↓							↓				
22	1'x1' Ceiling Tile - Grooved Pattern							Admin Bldg. Dining Room				
23	↓							↓				
24	↓							↓				
25	Plaster Ceiling							↓				
26	Black 12" Floor Tile with White Streaks							↓				
27	↓							↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify ___

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1	19-27	James R Melanthe	[signature]	1-4-01	
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
28	Black 12" Floor Tile with white streaks						Asbestos PLM EPA 600	Admin Bldg Dining Room				
29	Tan 9" Floor Tile							Admin Bldg Basement Maintenance Shop				
30	↓							↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1	28-30	James R Melanthe	G. Palucello	1-4-01	
				2					
				3					
				4					

ADDITIONAL COMMENTS:

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Admin. Bldg.
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217327 **Material Description:** Tan Ceiling Tile
Client No.: 169 **Location:** 1st Floor Conference Room A-134

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	25
		35	Fibrous Glass	

Lab No. 1217328 **Material Description:** Tan Ceiling Tile
Client No.: 170 **Location:** 1st Floor Conference Room A-134

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	25
		35	Fibrous Glass	

Lab No. 1217329 **Material Description:** Tan Ceiling Tile
Client No.: 171 **Location:** 1st Floor Conference Room A-134

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	25
		35	Fibrous Glass	

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed Method not performed unless stated PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: Graciela Manjarres N.

Approved By: Frank Ehrenfeld

Date: JAN

Graciela Manjarres N., AIHA-AAP

Frank E. Ehrenfeld, III
Laboratory Director

DELTA Environmental Services,® Inc.

972/8 (72)

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Admin. Bldg.

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
169	2x4 suspended Ceiling Tile				1217327		Asbestos PCM EPA 600 Positive stop	First Floor Conference Room A-134				
170	↓				1217328		↓	↓				
171	↓				1217329		↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melatto	Delta			1		James R Melatto			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEducationCenter;ETC,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248473
Client No.: 1
Material Description: Grey Floor Tile; 12"
Location: Yellow Mastic GroundFloor; Men'sRm

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1248473
Client No.: 1
Material Description: Grey Floor Tile; 12"
Location: Yellow Mastic GroundFloor; Men'sRm

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Yellow Mastic				
From Above				

Lab No. 1248474
Client No.: 2
Material Description: Grey Floor Tile; 12"
Location: Yellow Mastic GroundFloor; Men'sRm

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1248474
Client No.: 2
Material Description: Grey Floor Tile; 12"
Location: Yellow Mastic GroundFloor; Men'sRm

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Yellow Mastic				
From Above				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM

Analysis Performed By: _____

Date: _____

Approved By: _____

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEducationCenter;ETC,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248475
Client No.: 3
Material Description: Grey Floor Tile; 12"
Location: Yellow/BlkMix.Mastic GroundFloor, Men'sRm

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1248475
Client No.: 3
Material Description: Grey Floor Tile; 12"
Location: Yellow/BlkMix.Mastic GroundFloor, Men'sRm

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Yellow/BlkMix.Mastic
From Above

Lab No. 1248476
Client No.: 4
Material Description: White Plaster
Location: Wall; Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1248477
Client No.: 5
Material Description: White Plaster
Location: Wall; Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____
Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEducationCenter;RTC,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248478
Client No.: 6
Material Description: White Plaster
Location: White Joint Compound Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1248478
Client No.: 6
Material Description: White Plaster
Location: White Joint Compound Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

White Joint Compound
From Above

Lab No. 1248479
Client No.: 7
Material Description: Grey Cement
Location: Wall; Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1248480
Client No.: 8
Material Description: Grey Cement
Location: Wall; Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____
Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEducationCenter;ETC,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248481 **Material Description:** Grey Cement
Client No.: 9 **Location:** Wall; Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1248482 **Material Description:** Tan/WhiteCeilingTile
Client No.: 10 **Location:** 2x2; Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	25
		35	Mineral Wool	

Lab No. 1248483 **Material Description:** Tan/WhiteCeilingTile
Client No.: 11 **Location:** 2x2; Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	25
		35	Mineral Wool	

Lab No. 1248484 **Material Description:** Tan/WhiteCeilingTile
Client No.: 12 **Location:** 2x2; Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	25
		35	Mineral Wool	

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____
Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MystucEducationCenter;ETC,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248485
Client No.: 13
Material Description: White Joint Compound
Location: Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

No Sheetrock

Lab No. 1248486
Client No.: 14
Material Description: White Joint Compound
Location: Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

No Sheetrock

Lab No. 1248487
Client No.: 15
Material Description: White Joint Compound
Location: Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

No Sheetrock

Lab No. 1248488
Client No.: 16
Material Description: Brown/WhiteSheetrock
Location: Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	80	Cellulose	20
		Trace	Mineral Wool	

No Joint Compound

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____
Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEducationCenter;ETC,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248489
Client No.: 17
Material Description: Brown/WhiteSheetrock
Location: Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	75	Cellulose	25
No Joint Compound		Trace	Mineral Wool	

Lab No. 1248490
Client No.: 18
Material Description: Brown/WhiteSheetrock
Location: Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	90	Cellulose	10
No Joint Compound		Trace	Mineral Wool	

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: _____

Date: _____

Approved By: _____
Frank E. Ehrenfeld, III
Laboratory Director

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405
(203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center - ETC
PROJECT LOCATION: Mystic, CT
PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED		COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
1	Grey 12" Floor Tile						Asbestos PLM EPA 600 1248473	Positive stop	Ground Floor Men's Room				
2							1248474						
3							1248475						
4	Wall plaster top coat						1248476	Positive stop	Ground Floor Air Handler Room				
5							1248477						
6							1248478						
7	Wall plaster Brown Coat						1248479	Positive stop					
8							1248480						
9							1248481						

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME
James P. McArthur	Delta	3/26/01	2:00 PM

TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
1	1-9	James P. McArthur			
2					
3					
4					

ADDITIONAL COMMENTS:

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405

481-7668

Left ET in Project Name because all samples on this page are in same location as previous page

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

D97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED		COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
10	2x2 Ceiling Tile						1248482	Positive Stop	Ground Floor Air Handler Room				
11	↓						1248483	↓	↓				
12	↓						1248484	↓	↓				
13	Joint Compound						1248485	Positive Stop					
14	↓						1248486	↓					
15	↓						1248487	↓					
16	Sheetrock						1248488	Positive Stop					
17	↓						1248489	↓					
18	↓						1248490	↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James A. McLaughlin	Delta	3/26/01	2:00 PM	1		James A. McLaughlin			
				2					
				3					
				4					

ADDITIONAL COMMENTS:

APPENDIX C

Laboratory and Inspector Accreditations

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT - INSP/MGMT PLANNER

LICENSE NO.
000044
CURRENT THROUGH
02/28/01
VALIDATION NO.
00-321886

JAMES P. MCCARTHY

SIGNATURE

COMMISSIONER, DEPT. OF PUBLIC HEALTH

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

CHEMSCOPE, INC.
NORTH HAVEN, CT

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

BULK ASBESTOS FIBER ANALYSIS

March 31, 2002
Effective through

David F. Alderman
For the National Institute of Standards and Technology

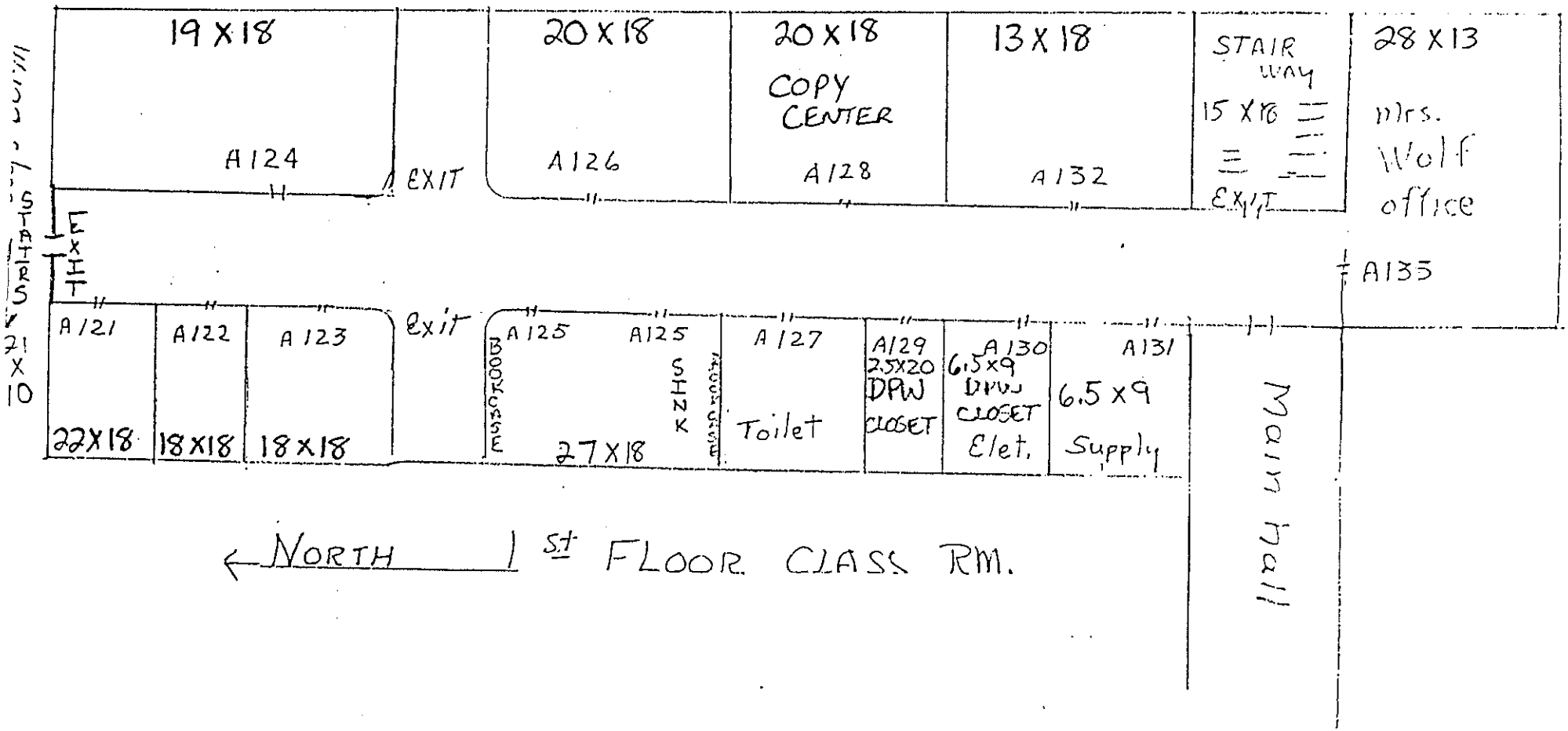
NVLAP Lab Code: 101061-0

NVLAP-01C (11-95)

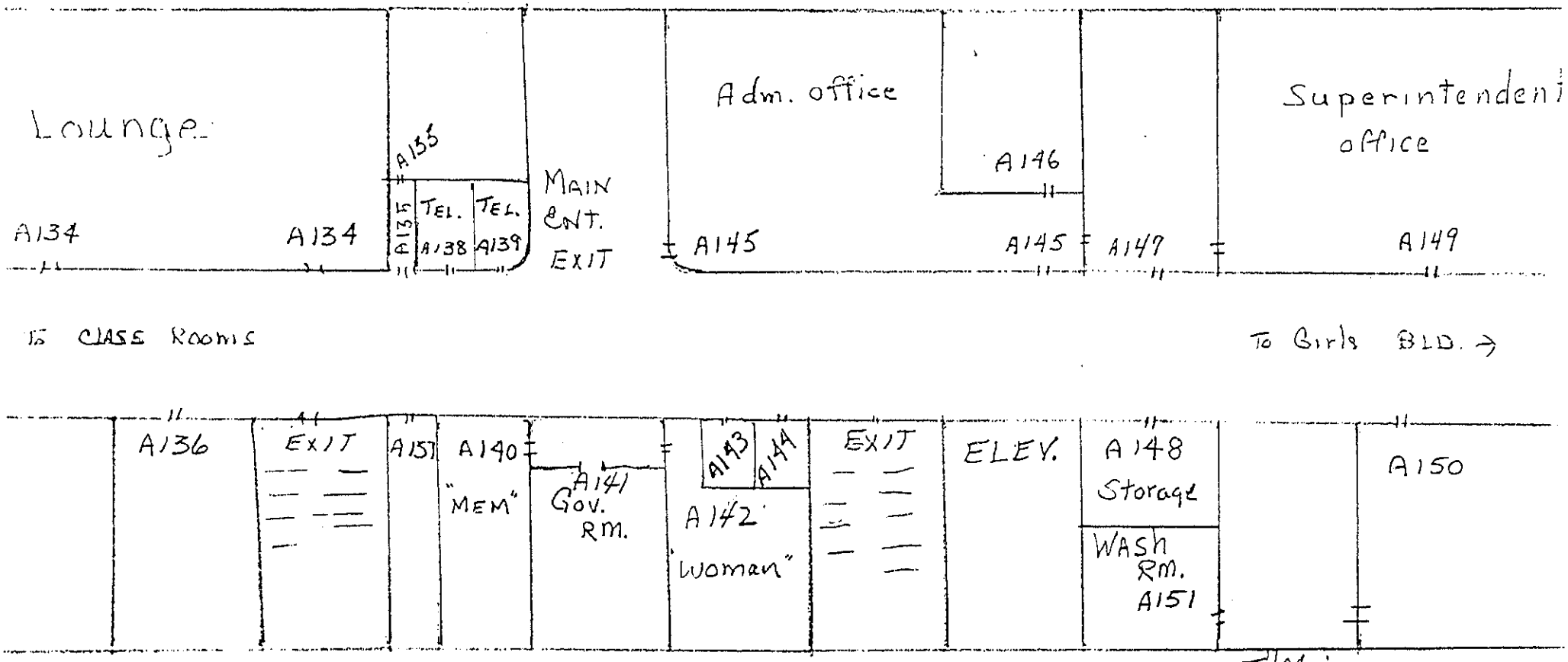
APPENDIX D

Building Diagrams

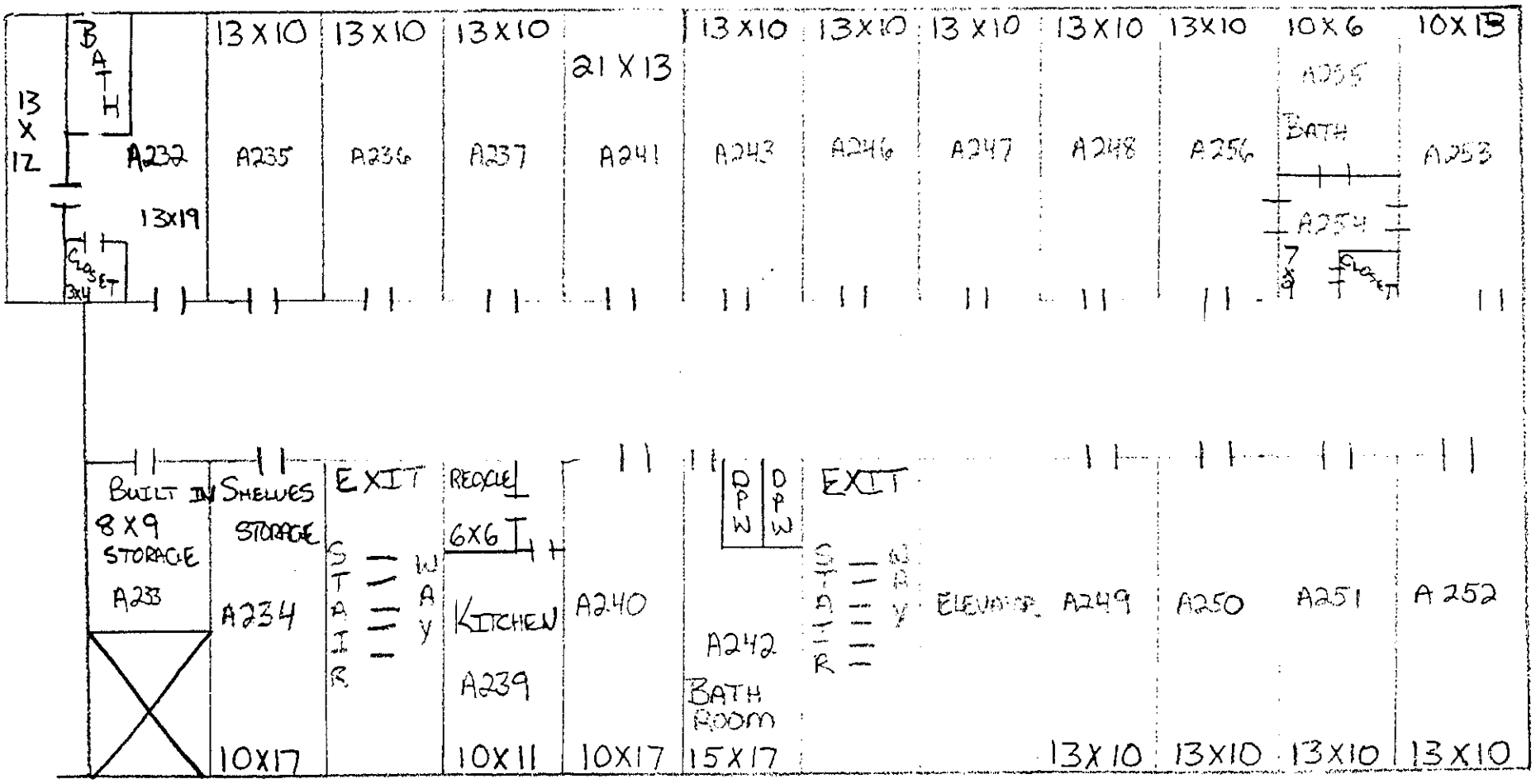
160 X 50 = 8000 SQ FT.



← NORTH 1st FLOOR CLASS RM.

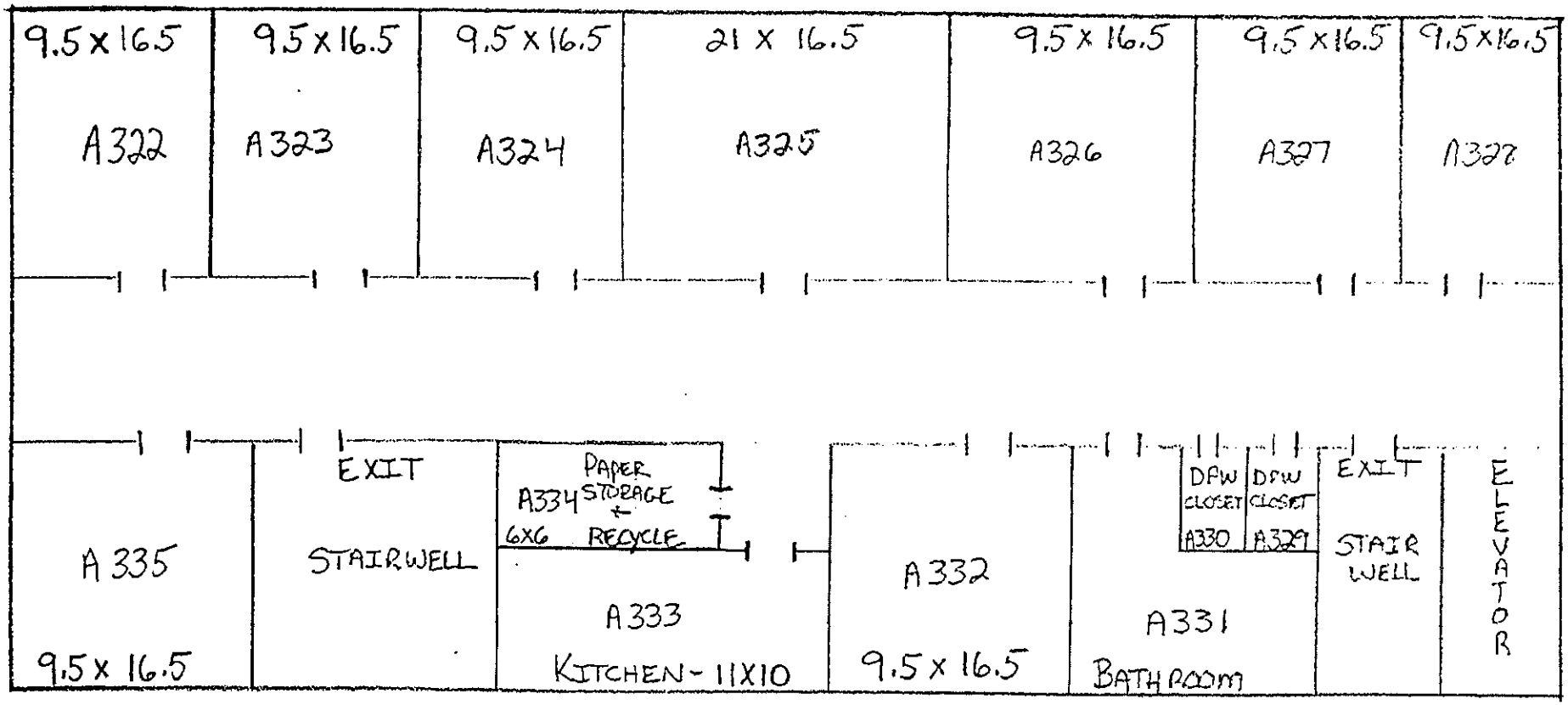


EAST 1st FLOOR Administrative



EAST 2ND FLOOR BEDROOM OF ADMIN. BLDG.

80 X 50 = 4000 SQ FT.



← EAST 3RD FLOOR BEDROOMS OF ADMIN. BLDG.

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
ADMINISTRATION BUILDING (DPW Building 16945)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: November 2001

DELTA
ENVIRONMENTAL
SERVICES®, INC.

81 Schoolground Road
P.O. Box 564, Branford, CT
(203) 481-7668

ASBESTOS INSPECTION

MYSTIC EDUCATION CENTER
ADMINISTRATION BUILDING (DPW Building 16945)
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PREPARED FOR:

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PROJECT NUMBER: BI-2B-105 (ASB)

REPORT DATE: November 2001

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1.0 INTRODUCTION

This report summarizes the results of an asbestos and lead inspection conducted by DELTA Environmental Services, Inc. (DELTA) for the Administration Building (DPW Building Number 16945) at the Mystic Education Center facility at 290 Oral School Road in Mystic, Connecticut. The project consisted of: review of available building records; physical inspection of the building to determine the quantities and locations of asbestos-containing materials (ACM); and bulk sampling of suspected asbestos-containing materials (ACM).

2.0 BUILDING DESCRIPTION

Mystic Education Center is a seven-building campus-type facility. The property consists of approximately 122 acres and 250,000 square feet of building floor space. The Administration Building (also known as the Main Building) was constructed in 1944. The southern portion of the building houses administrative offices of the Department of Mental Retardation. The northern portion of the building was renovated circa 1992 and is now leased to the Engineering Technology Center, a private corporation. The building is heated by steam radiators. A large boiler room is present in the western portion of the building. Room numbers referred to in this report correspond to the building diagrams in Appendix E.

3.0 SUMMARY OF PREVIOUS ASBESTOS PROJECTS

DELTA reviewed previous correspondence and reports regarding the building in order to plan the building survey. The following documents were reviewed: an asbestos building survey prepared by TRC Environmental Consultants, Inc. (TRC) dated March 26, 1987. A summary of the pertinent contents of the document follows.

The TRC report identified a total of 9,544 square feet of asbestos-containing thermal systems insulation in the building. A large quantity of asbestos-containing boiler, tank, duct and pipe insulation was present in the basement boiler and hot water tank rooms (A-24 and A-25). DELTA's recent inspection found that the boiler room and virtually all of the basement of the southern portion of the building has been abated since 1987. The TRC report found additional asbestos-containing pipe insulation the following areas: pipe chases throughout the building; a pipe tunnel in the basement of the area currently occupied by ETC; and the basement, first, second and third floors of the area currently occupied by ETC.

4.0 ASBESTOS SURVEY

4.1 Asbestos Sampling Procedures

Bulk samples of suspected ACM were collected by James P. McCarthy, P.E., of DELTA, a Connecticut Department of Public Health licensed inspector. Samples were collected using a clean knife or other appropriate tool after first wetting the material to be sampled to limit fiber release.

Samples were placed in dedicated sealable plastic bags and promptly transmitted to the analytical laboratory using strict chain of custody procedures. Sampling was performed in accordance with Environmental Protection Agency protocols, which require a minimum of three negative results in order to establish that a material does not contain asbestos.

4.2 Asbestos Analytical Procedures

Analysis was performed by International Asbestos Testing Laboratories, Inc. (IATL), Mt. Laurel, New Jersey, and Chemscope, Inc., North Haven, Connecticut. Both laboratories are accredited by the National Institute of Standards and Technology accredited laboratory. Analysis was performed using Polarized Light Microscopy (PLM) Method EPA 600. Point counting was used to quantify asbestos content for all samples found to contain less than ten percent asbestos.

4.3 Asbestos Analytical Results

The results of recent bulk sampling performed by DELTA are summarized in Table 4-1. Laboratory data sheets are included in Appendix B.

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: green 9" floor tile and mastic; light brown 9" floor tile and mastic; mastic from brown 12" floor tile (the tile does not contain asbestos); black 12" floor tile (the mastic does not contain asbestos); pipe and pipe fitting insulation; soft ceiling surfacing material in the Dining Room; one type of 12" square ceiling tile located at the west side of the second floor corridor; black tar adhesive used to affix blackboards to the wall; and exterior window glazing.

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
DMR ADMINISTRATION OFFICES (SOUTHERN PORTION OF BUILDING)				
1	142-666-1	Imitation Wood Linoleum	Corridor Outside A145	NAD
2	142-666-2	Imitation Wood Linoleum	Corridor Outside A145	NAD
3	142-666-3 142-666-6	Green 9" Floor Tile Mastic From Above	East Stairwell Landing Between Basement and First Floor	Not Analyzed* 28% Chrysotile
4	142-666-4	Green 9" Floor Tile	East Stairwell Landing Between Basement and First Floor	Not Analyzed*
5	142-666-5	Green 9" Floor Tile	East Stairwell Landing Between Basement and First Floor	Not Analyzed*
6	142-666-7	Green 9" Floor Tile Mastic	East Stairwell Landing Between Basement and First Floor	Not Analyzed*
7	142-666-8	Green 9" Floor Tile Mastic	East Stairwell Landing Between Basement and First Floor	Not Analyzed*
8 9	142-666-9 142-666-10	Wall Plaster Top Coat Wall Plaster Brown Coat	East Stairwell Landing Between Second and Third Floors	NAD NAD

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
10	142-666-11	Brown 12" Floor Tile	Third Floor in Front of Elevator	< 1% Chrysotile (Point Count)
	142-666-12	Mastic From Above		< 1% Chrysotile (Point Count)
11	142-666-13	Baseboard Molding Adhesive	Third Floor	NAD
12	142-666-14	Baseboard Molding Adhesive	Third Floor	NAD
13	142-666-15	Baseboard Molding Adhesive	Third Floor	NAD
	142-666-16	Wall Plaster Top Coat		NAD
14	142-666-17	Brown 12" Floor Tile	First Floor in Front of Elevator	Not Analyzed*
	142-666-18	Mastic From Above		12% Chrysotile
15	142-666-19	Ceiling Tile 12" Square Type 3 - Groove Pattern	Basement Room A-8	NAD
15A	142-666-20	Glue Dot From Ceiling Tile 12" Square Type 3	Basement Room A-8	NAD
16	142-666-21	Ceiling Tile 12" Square Type 3 - Groove Pattern	Basement Room A-8	NAD
16A	142-666-22	Glue Dot From Ceiling Tile 12" Square Type 3	Basement Room A-8	NAD

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
17	142-666-23	Ceiling Tile 12" Square Type 3 - Groove Pattern	Basement Room A-8	NAD
17A	142-666-24	Glue Dot From Ceiling Tile 12" Square Type 3	Basement Room A-8	NAD
18	142-666-25	Joint Compound	Basement West Landing	NAD
19	142-666-26	Joint Compound	Basement West Landing	NAD
20	142-666-27	Joint Compound	Basement West Landing	NAD
21	142-666-28	Baseboard Molding Adhesive	Basement West Landing	NAD
	142-666-29			NAD
22	142-666-30	Brown 12" Floor Tile	Basement West Landing	Not Analyzed*
	142-666-31	Mastic From Above		14% Chrysotile
23	142-666-32	White 12" Floor Tile With Green Streaks	Basement Room A-8	NAD
	142-666-35	Mastic From Above		NAD
24	142-666-33	White 12" Floor Tile With Green Streaks	Basement Room A-8	NAD
	142-666-36	Mastic From Above		NAD

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
25	142-666-34	White 12" Floor Tile With Green Streaks	Basement Room A-8	NAD
	142-666-37	Mastic From Above		NAD
26	142-666-38	Baseboard Molding Adhesive	Basement Room A-8	NAD
27	1248491	Ceiling Tile 12" Square Type 5 - Symmetrical Large Pinhole Pattern	Room A-124	NAD
28	1248492	Ceiling Tile 12" Square Type 5 - Symmetrical Large Pinhole Pattern	Room A-124	NAD
29	1248493	Ceiling Tile 12" Square Type 5 - Symmetrical Large Pinhole Pattern	Room A-124	NAD
30	1248494	Brown Glue Dot From Ceiling Tile 12" Square Type 5 - Symmetrical Large Pinhole Pattern	Room A-124	NAD
31	1248495	Brown Glue Dot From Ceiling Tile 12" Square Type 5 - Symmetrical Large Pinhole Pattern	Room A-124	NAD

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
32	1248496	Brown Glue Dot From Ceiling Tile 12" Square Type 5 - Symmetrical Large Pinhole Pattern	Room A-124	NAD
33	1248497	Dark Brown Glue Dot From Ceiling Tile 12" Square Type 2 - Asymmetrical Large Pinhole Pattern	Room A-124	Trace Chrysotile (Point Count)
34	1248498	Dark Brown Glue Dot From Ceiling Tile 12" Square Type 2 - Asymmetrical Large Pinhole Pattern	Room A-124	Trace Chrysotile (Point Count)
35	1248499	Dark Brown Glue Dot From Ceiling Tile 12" Square Type 2 - Asymmetrical Large Pinhole Pattern	Room A-124	Trace Chrysotile (Point Count)
36	1248500	Black Tar Adhesive From Behind Blackboard	Room A-124	15% Chrysotile
37	1248501	Black Tar Adhesive From Behind Blackboard	Room A-124	Not Analyzed*
38	1248502	Black Tar Adhesive From Behind Blackboard	Room A-124	Not Analyzed*

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MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
39	1248503	Sheetrock	Basement West Stairwell Landing	NAD
40	1248504	Sheetrock	Basement West Stairwell Landing	NAD
59	142-666-76	Wall Plaster Top Coat	Stairs to Basement Near Room A18	NAD
60	142-666-77	Wall Plaster Brown Coat		NAD
61	142-666-78	Suspended Ceiling Tile 2' X 4'	Landing Near Room A-8	NAD
62	142-666-79	Suspended Ceiling Tile 2' X 4'	Landing Near Room A-8	NAD
63	142-666-80	Suspended Ceiling Tile 2' X 4'	Landing Near Room A-8	NAD
64	142-666-81	Ceiling Concrete Skim Coat	Room A-238	NAD
65	142-666-82	Ceiling Concrete Skim Coat	Room A-238	NAD
66	142-666-83	Ceiling Concrete Skim Coat	Room A-238	NAD
67	142-666-84	Wall Plaster Top Coat	Second Floor Room A238	NAD
68	142-666-85	Wall Plaster Brown Coat		NAD
69	142-666-86	Wall Plaster Top Coat	Second Floor Room A238	NAD
	142-666-87	Wall Plaster Brown Coat		NAD

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ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
70	142-666-88	Ceiling Tile 12" Square Type 1 - Small Pinhole Pattern	Second Floor West Side of Corridor Near A252	15% Amosite
71	142-666-89	Ceiling Tile 12" Square Type 1 - Small Pinhole Pattern	Second Floor West Side of Corridor Near A252	Not Analyzed*
72	142-666-90	Ceiling Tile 12" Square Type 1 - Small Pinhole Pattern	Second Floor West Side of Corridor Near A252	Not Analyzed*
73	142-666-94	Ceiling Plaster Top Coat	Second Floor Corridor Near Room A252	NAD
74	142-666-95	Ceiling Plaster Brown Coat		VOID*
** The plaster sample was found to have been contaminated during the sampling procedure. Ceiling tile containing amosite asbestos is glued to the plaster ceiling at this location. Asbestos fibers from the ceiling tile were inadvertently collected with the plaster sample.*				
75	142-666-96	Ceiling Tile 12" Square Type 2 - Asymmetrical Large Pinhole Pattern	Second Floor East Side of Corridor	NAD
76	142-666-97	Ceiling Tile 12" Square Type 2 - Asymmetrical Large Pinhole Pattern	Second Floor East Side of Corridor	NAD
77	142-666-98	Ceiling Tile 12" Square Type 2 - Asymmetrical Large Pinhole Pattern	Second Floor East Side of Corridor	NAD

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
78	142-666-99	Glue Dot From Ceiling Tile 12" Square Type 2 - Asymmetrical Large Pinhole Pattern	Second Floor East Side of Corridor	NAD
97	1184278	Light Brown 9" Floor Tile	Basement Maintenance Shop	< 1% Chrysotile (Point Count)
	1184279	Mastic From Above		NAD
99	143-248-1	Ceiling Plaster Top Coat	Basement Men's Bathroom	NAD
100	143-248-2	Ceiling Plaster Brown Coat		NAD
101	143-248-3	Ceiling Plaster (Both Coats)	Second Floor Corridor Near Room A252	NAD
102	143-248-4	Ceiling Plaster Brown Coat	Second Floor Corridor Near Room A252	NAD
103	143-248-5	Wall Plaster Top Coat	Second Floor Corridor Near A251	NAD
104	143-248-6	Wall Plaster Brown Coat		NAD
105	143-248-7	Wall Plaster Top Coat	Third Floor Corridor Near Elevator	NAD
106	143-248-8	Wall Plaster Brown Coat		NAD

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ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
107	143-248-9	Ceiling Plaster (Both Coats)	Third Floor Corridor Opposite A328	NAD
108	143-248-10	Ceiling Plaster (Both Coats)	Third Floor Corridor Opposite A328	NAD
142	1217321	Window Caulk	Exterior Wood Window	NAD
143	1217322	Window Caulk	Exterior Wood Window	NAD
144	1217323	Window Caulk	Exterior Wood Window	NAD
145	1217324	Window Glazing	Exterior Wood Window	3.5% Chrysotile (Point Count)
146	1217325	Window Glazing	Exterior Wood Window	Not Analyzed*
147	1217326	Window Glazing	Exterior Wood Window	Not Analyzed*
148	143-726-1	Tan 9" Floor Tile with Brown/White Streaks	First Floor Mail Room A151	NAD
149	143-726-2	Tan 9" Floor Tile with Brown/White Streaks	First Floor Mail Room A151	NAD
150	143-726-3	Tan 9" Floor Tile with Brown/White Streaks	First Floor Mail Room A151	NAD
151	143-726-4	Orange Mastic From Tan 9" Floor Tile with Brown/White Streaks	First Floor Mail Room A151	NAD

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
152	143-726-5	Orange Mastic From Tan 9" Floor Tile with Brown/White Streaks	First Floor Mail Room A151	NAD
153	143-726-6	Orange Mastic From Tan 9" Floor Tile with Brown/White Streaks	First Floor Mail Room A151	NAD
154	143-726-25 143-726-28	Black 12" Floor Tile Mastic	First Floor Dining Room	1-2% Chrysotile NAD
155	143-726-26 143-726-29	Black 12" Floor Tile Mastic	First Floor Dining Room	Not Analyzed* NAD
156	143-726-27 143-726-30	Black 12" Floor Tile Mastic	First Floor Dining Room	Not Analyzed* NAD
157	143-726-31	Cement on Fiberglass Breeching Insulation	Boiler Room	NAD
158	143-726-32	Cement on Fiberglass Breeching Insulation	Boiler Room	NAD
159	143-726-33	Cement on Fiberglass Breeching Insulation	Boiler Room	NAD

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
160	143-726-34	White 1' X 1' Ceiling Tile Type 4 - Grooved Pattern	First Floor Dining Room	NAD
	143-726-37	Glue Dot		NAD
161	143-726-35	White 1' X 1' Ceiling Tile Type 4 - Grooved Pattern	First Floor Dining Room	NAD
	143-726-38	Glue Dot		NAD
162	143-726-36	White 1' X 1' Ceiling Tile Type 4 - Grooved Pattern	First Floor Dining Room	NAD
	143-726-39	Glue Dot		NAD
163	143-726-40	Soft Ceiling Surfacing Above Ceiling Tile	First Floor Dining Room	4% Chrysotile
164	143-726-41	Black 12" Floor Tile with White Streaks (Salient Area)	First Floor Dining Room	NAD
	143-726-44	Mastic		< 1% Chrysotile
165	143-726-42	Black 12" Floor Tile with White Streaks (Salient Area)	First Floor Dining Room	NAD
	143-726-45	Mastic		< 1% Chrysotile

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
166	143-726-43 143-726-46	Black 12" Floor Tile with White Streaks (Salient Area) Mastic	First Floor Dining Room	NAD < 1% Chrysotile
167	143-726-47 143-726-49	Light Brown 9" Floor Tile Mastic	Basement Maintenance Area	1-2% Chrysotile 10% Chrysotile
168	143-726-48 143-726-50	Light Brown 9" Floor Tile Mastic	Basement Maintenance Area	Not Analyzed* Not Analyzed*
169	1217327	Suspended Ceiling Tile - 2' X 4'	First Floor Conference Room A134	NAD
170	1217328	Suspended Ceiling Tile - 2' X 4'	First Floor Conference Room A134	NAD
171	1217329	Suspended Ceiling Tile - 2' X 4'	First Floor Conference Room A134	NAD

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
ETC (NORTHERN PORTION) OF BUILDING				
1	1248473	Gray 12" Floor Tile Mastic	Ground Floor Men's Bathroom	NAD NAD
2	1248474	Gray 12" Floor Tile Mastic	Ground Floor Men's Bathroom	NAD NAD
3	1248475	Gray 12" Floor Tile Mastic	Ground Floor Men's Bathroom	NAD NAD
4	1248476	Wall Plaster Top Coat	Ground Floor Air Handler Room	NAD
5	1248477	Wall Plaster Top Coat	Ground Floor Air Handler Room	NAD
6	1248478	Wall Plaster Top Coat	Ground Floor Air Handler Room	NAD
7	1248479	Wall Plaster Brown Coat	Ground Floor Air Handler Room	NAD
8	1248480	Wall Plaster Brown Coat	Ground Floor Air Handler Room	NAD
9	1248481	Wall Plaster Brown Coat	Ground Floor Air Handler Room	NAD

TABLE 4-1: BULK SAMPLE SUMMARY FOR SUSPECT ASBESTOS-CONTAINING MATERIALS
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

DELTA SAMPLE ID	LAB SAMPLE ID	MATERIAL	LOCATION	RESULTS
10	1248482	Ceiling Tile - 2' X 2'	Ground Floor Air Handler Room	NAD
11	1248483	Ceiling Tile - 2' X 2'	Ground Floor Air Handler Room	NAD
12	1248484	Ceiling Tile - 2' X 2'	Ground Floor Air Handler Room	NAD
13	1248485	Joint Compound	Ground Floor Air Handler Room	NAD
14	1248486	Joint Compound	Ground Floor Air Handler Room	NAD
15	1248487	Joint Compound	Ground Floor Air Handler Room	NAD
16	1248488	Sheetrock	Ground Floor Air Handler Room	NAD
17	1248489	Sheetrock	Ground Floor Air Handler Room	NAD
18	1248490	Sheetrock	Ground Floor Air Handler Room	NAD

NOTE: "NAD" INDICATES NO ASBESTOS DETECTED

* EPA protocols consider one positive result as confirmation that a material contains asbestos. If the first sample of a material is found to contain asbestos, no further confirmation is necessary and any additional samples are therefore not analyzed.

The various types of older 9" vinyl floor tile in the building were found to contain between 2 and 7% chrysotile asbestos. The mastic from the 9" tile was also found to contain between 10 and 28% chrysotile asbestos. The brown 12" tile mastic contains 14% chrysotile; the tile itself does not contain asbestos. The black 12" tile contains 2% chrysotile asbestos; the mastic does not contain asbestos.

Floor tile in the building is generally in fair to good condition. Though the tile is unlikely to present a hazard unless it is actively disturbed, any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile (and mastic if applicable) as asbestos.

Asbestos-containing pipe and pipe fitting insulation is present in the building as enumerated in the table in Appendix A. The insulation is generally present in isolated areas such as pipe chases. It appears that the asbestos-containing thermal systems insulation in the basement should be assigned a moderate level of priority for abatement, due to its impact on future building maintenance activities.

A trowel-applied soft ceiling surfacing material in the Dining Room on the First Floor was found to contain 4% chrysotile asbestos. The surfacing is present above a layer of non-asbestos ceiling tile which is glued to the asbestos-containing ceiling material. Given that it is covered by the tile, it appears unlikely that the surfacing material would release asbestos fibers unless actively disturbed. Consequently, it appears that the material should be assigned a relatively low priority for abatement.

A type of 1' square ceiling tile (glued to the ceiling) present only at the west side of the second floor corridor was found to contain 15% amosite asbestos. It appears that this material should be assigned a moderate level of priority for abatement, due to their impact on future building maintenance activities.

TABLE 4-2 : ASBESTOS-CONTAINING MATERIAL
ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
MYSTIC, CONNECTICUT

HOMOGENEOUS AREA NUMBER	MATERIAL DESCRIPTION	LOCATION	ASBESTOS TYPE AND CONTENT (%)
1	Green 9" Floor Tile	Stairwell Landings, Elevator Machine Room, Maintenance Office	7% Chrysotile
2	Mastic From Green 9" Floor Tile	Stairwell Landings, Elevator Machine Room, Maintenance Office	28% Chrysotile
3	Pipe and Fitting Insulation	Throughout	70% Chrysotile
4	Soft Ceiling Surfacing (Above Ceiling Tile)	Dining Room	4% Chrysotile
5	1' X 1' Ceiling Tile Type 1 Small Pinhole Pattern	Second Floor Corridor West Side	15% Amosite
6	Mastic From Brown 12" Floor Tile	First Through Third Floors in Front of Elevators, Basement Stairwell Landing	14% Chrysotile
7	Light Brown 9" Floor Tile	Basement Maintenance Area	2% Chrysotile
8	Mastic From Light Brown 9" Floor Tile	Basement Maintenance Area	10% Chrysotile
9	Black 12" Floor Tile	First Floor Dining Room	2% Chrysotile
10	Exterior Window Glazing	Throughout	3.5% Chrysotile

TABLE 4-3 : NON-ASBESTOS-CONTAINING MATERIAL ADMINISTRATION BUILDING MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
HOMOGENEOUS AREA NUMBER	**MATERIAL DESCRIPTION**	**LOCATION**	**ASBESTOS TYPE AND CONTENT (%)**
11	Imitation Wood Linoleum	Throughout First Through Third Floors	NAD
12	Wall Plaster Top Coat	Throughout	NAD
13	Wall Plaster Brown Coat	Throughout	NAD
14	Ceiling Plaster Top Coat	Throughout	NAD
15	Ceiling Plaster Brown Coat	Throughout	NAD
16	Glue Dots From 1' X 1' Ceiling Tile Type 1	Second Floor Corridor West Side	NAD
17	1' X 1' Ceiling Tile Type 2 Asymmetrical Large Pinhole Pattern	First Floor Corridor, Second Floor Corridor East Side, Third Floor Corridor	NAD
18	Glue Dots From 1' X 1' Ceiling Tile Type 2	First Floor Corridor, Second Floor Corridor East Side, Third Floor Corridor	NAD
19	1' X 1' Ceiling Tile Type 3 Groove Pattern	Basement Room A-8	NAD
20	Glue Dots From 1' X 1' Ceiling Tile Type 3	Basement Room A-8	NAD
21	1' X 1' Ceiling Tile Type 4 Groove Pattern	First Floor Dining Room	NAD
22	Glue Dots From 1' X 1' Ceiling Tile Type 4	First Floor Dining Room	< 1% Chrysotile

TABLE 4-3 : NON-ASBESTOS-CONTAINING MATERIAL ADMINISTRATION BUILDING MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
23	1' X 1' Ceiling Tile Type 5 Symmetrical Large Pinhole Pattern	A-121, A-122, A-123, A-124 and Adjacent Corridor	NAD
24	Glue Dots From 1' X 1' Ceiling Tile Type 5	A-121, A-122, A-123, A-124 and Adjacent Corridor	NAD
25	Brown 12" Floor Tile	First Through Third Floors in Front of Elevators, Basement Stairwell Landing	< 1% Chrysotile
26	Baseboard Molding Adhesive	First Through Third Floors in Front of Elevators, Basement Stairwell Landing, Basement Room A-8	NAD
27	Sheetrock	Basement West Landing	NAD
28	Joint Compound	Basement West Landing	NAD
29	White 12" Floor Tile with Green Streaks	Basement Room A8	NAD
30	Mastic From White 12" Floor Tile with Green Streaks	Basement Room A8	NAD
31	2' X 4' Suspended Ceiling Tile	Basement West Landing, First Floor Room A134	NAD
32	Ceiling Concrete Skim Coat	Second Floor Room A238	NAD
33	Tan 9" Floor Tile with White and Brown Streaks	First Floor Mail Room A151	NAD

TABLE 4-3 : NON-ASBESTOS-CONTAINING MATERIAL ADMINISTRATION BUILDING MYSTIC EDUCATION CENTER MYSTIC, CONNECTICUT			
34	Mastic From Tan 9" Floor tile with White and Brown Streaks	First Floor Mail Room A151	NAD
35	Mastic From Black 12" Floor Tile	First Floor Dining Room	NAD
36	Black 12" Floor Tile with White Streaks	First Floor Dining Room	NAD
37	Mastic From Black 12" Floor Tile with White Streaks	First Floor Dining Room	< 1% Chrysotile
38	Cement on Fiberglass Breeching	Boiler Room	NAD
39	Exterior Window Caulk	Throughout	NAD
40	Gray 12" Floor Tile	ETC Bathroom Areas	NAD
41	Mastic From Gray 12" Floor Tile	ETC Bathroom Areas	NAD
42	Ceiling Tile - 2' X 2' Groove Pattern	ETC Throughout	NAD
43	Joint Compound	ETC Throughout	NAD
44	Sheetrock	ETC Throughout	NAD
NOTE: NAD indicates "No Asbestos Detected"			

Exterior window glazing material was found to contain 3.5% chrysotile asbestos. Window caulking was found not to contain asbestos. The glazing material is hard and is nonfriable. The glazing is unlikely to release asbestos fibers under normal conditions, but would have to be addressed if the windows are replaced.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

5.0. DISCUSSION AND RECOMMENDATIONS

The survey identified the following asbestos-containing materials (ACM) in the building through analytical sampling: green 9" floor tile and mastic; light brown 9" floor tile and mastic; mastic from brown 12" floor tile (the tile does not contain asbestos); black 12" floor tile (the mastic does not contain asbestos); pipe and pipe fitting insulation; soft ceiling surfacing material in the Dining Room; one type of 12" square ceiling tile located at the west side of the second floor corridor; and exterior window glazing.

Floor tile in the building is generally in fair to good condition. Though the tile is unlikely to present a hazard unless it is actively disturbed, any future removal or replacement of floor tile would have to be done as an asbestos abatement project involving removal and disposal of the tile (and mastic if applicable) as asbestos.

Asbestos-containing pipe and pipe fitting insulation is present in the building. The insulation is generally present in isolated areas such as pipe chases. It appears that the asbestos-containing thermal systems insulation in the basement should be assigned a moderate level of priority for abatement, due to its impact on future building maintenance activities.

A trowel-applied soft ceiling surfacing material in the Dining Room on the First Floor was found to contain asbestos. The surfacing is present above a layer of non-asbestos ceiling tile which is glued to the asbestos-containing ceiling material. Given that it is covered by the tile, it appears unlikely that the surfacing material would release asbestos fibers unless actively disturbed. Consequently, it appears that the material should be assigned a relatively low priority for abatement.

A type of 1' square ceiling tile present only at the west side of the second floor corridor was found to contain asbestos. It appears that this material should be assigned a moderate level of priority for abatement, due to their impact on future building maintenance activities.

Exterior window glazing material was found to contain asbestos. Window caulking was found not to contain asbestos. The glazing material is hard and is nonfriable. The glazing is unlikely to release asbestos fibers under normal conditions, but would have to be addressed if the windows are replaced.

Interior fire door core material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless the door is damaged in some way.

Roofing material was not sampled but is presumed to contain asbestos. This material is unlikely to release asbestos fibers unless it is disturbed via roof patching or replacement.

6.0 ESTIMATED COST FOR ASBESTOS ABATEMENT

The estimated cost for asbestos abatement shown in Table 6-1 is provided solely for establishing removal and replacement costs for the DPW asbestos inventory database. The abatement estimate utilizes fixed unit costs for specific item descriptions. Abatement projects are to be estimated with respect to individual project requirements or conditions.

The estimated cost for abatement of the building (including thermal systems reinsulation) is $245,000. It should be noted that the cost estimate does not include removal of roofing materials. The cost estimate utilizes standard unit prices for removal of different types of asbestos-containing materials. When an actual asbestos abatement project is planned, a more precise estimate can be developed based on the specific work scope.

7.0. LIMITATIONS

The survey has the following limitations:

- DELTA's survey included an evaluation for the presence of asbestos-containing insulation on electrical equipment in the building. The inspection included building wiring, whips and fixtures. No suspect insulation was found. The inspection was designed to cover a representative portion of the building, since it was not feasible to examine all fixtures, junction boxes, etc.

TABLE 6-1

ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
ASBESTOS ABATEMENT COST ESTIMATE

Item Description	Quantity	Unit	Unit Cost	Subtotal Cost
REMOVAL				
Thermal System Insulation	226	SF	$10.00	$2,260
Thermal System Insulation	3,224	LF	$15.00	$48,360
Surfacing Material	3,700	SF	$12.50	$46,250
Misc. Material	7,645	SF	$5.00	$38,225
SUB TOTAL REMOVAL				$135,095
REPLACEMENT				
Thermal System Insulation	226	SF	$10.00	$2,260
Thermal System Insulation	3,224	LF	$15.00	$48,360
Surfacing Material		SF	$10.00	$0,00
Miscellaneous Material		LF	N/A	
Miscellaneous Material		SF	N/A	
SUB TOTAL REPLACEMENT				$50,620
Construction				$185,715
Consultant (20%)				$37,143
Contingency (10%)				$22,286
TOTAL				$245,144
ABATEMENT ESTIMATE				**$245,000**

- The survey did not utilize "destructive" sampling methods, and therefore may not have identified all of the asbestos-containing materials in the building. Specifically, the inspection did not include areas enclosed by walls or ceilings, unless these spaces could be accessed without damage.

- The survey did not include destructive sampling of furnishings such as chalkboards, corkboards, fire doors and benchtops.

- The survey attempted to access and identify asbestos-containing materials associated with HVAC and mechanical systems. However, such systems were not dismantled during the inspection. It is possible that boilers, furnaces, fan units and other devices may contain gaskets and other interior asbestos material which can only be accessed through dismantling them. Care should be taken to avoid the accidental disturbance of asbestos during maintenance or repair work on such devices.

APPENDIX A

Inventory of Identified Asbestos-Containing Material

ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

11/13/01

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
BASEMENT													
	PIPE TUNNEL TO GIRLS												
ELEVATOR	ELEVATOR CAB FLOOR	26,6	12" BROWN FLOOR TILE/MASTIC	<1% / 14%	20								
A5	STORAGE												
A6	PHONE CLOSET												
A7	STORAGE	3	PIPE/FITTING INSULATION	70% / 65%				150	20				
A8	FORMER LIBRARY												
A8	STORAGE @PIPE TUNNEL												NEWER FIBERGLASS PIPE INSUL.
A8	PHONE ROOM/MDF												
A8	MEN'S BATHROOM												
A8	WOMEN'S BATHROOM												
A8	PIPE CHASE												
A8	REAR STORAGE												
	CORRIDOR												
	MAINTENANCE AREA	7,8	9" LIGHT BROWN TILE/MASTIC	2% / 10%	2000								
	ELEVATOR MACHINE	1,2	9" GREEN FLOOR TILE/MASTIC	7% / 28%	50								
	MAINTENANCE OFFICE	1,2	9" GREEN FLOOR TILE/MASTIC	7% / 28%	300								
	COMPRESSOR ROOM												
	LADDER STORAGE												
	ELECTRICAL CLOSET												
	HOT WATER TANK ROOM												
	BOILER ROOM												POSSIBLE INTERIOR ASB. IN BOILERS

ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
FIRST FLOOR													
	MAIN VESTIBULE												
	WAITING AREA OFF VEST.												
	BATHROOMS OFF VESTIBULE												
	CORR. NEAR ELEV.	26, 6	12" BROWN FLOOR TILE/MASTIC	< 1% / 14%	40								
	DINING ROOM	9	12" BLACK FLOOR TILE	2%	3700								
	DINING ROOM	4	SOFT CEILING PLASTER	4%		3700							NON-ASBESTOS CEILING TILE BELOW
	DINING ROOM	3	PIPE/FITTING INSULATION	70% / 65%				30	18				PRESENT ON PIPING TO GAS BLOWERS
	KITCHEN	3	PIPE/FITTING INSULATION	70% / 65%				170	26				
	CORR. IN CLASSROOM WING												
A121	VENDING MACHINES												
A122	CLASSROOM												
	CORRIOOR												
A123	CLASSROOM												
A124	CLASSROOM												
A125	CLASSROOM												
A126	CLASSROOM												
A127	BATHROOM												
A128	CLASSROOM												
A129	PIPE CHASE												
A130	STORAGE												
A131	STORAGE												
A132	CLASSROOM												
A133	CLASSROOM												
A134	CONFERENCE	26, 6	12" BROWN FLOOR TILE/MASTIC	< 1% / 14%	25								VESTIBULE OUTSIDE CONFERENCE
A135	OFFICE												
A136	STORAGE												
A137	PIPE CHASE	3	PIPE/FITTING INSULATION	70% / 65%				40	6				
A138	CLOSET												
A139	CLOSET												
A140	ELEC. CLOSET												
A144	PIPE CHASE	3	PIPE/FITTING INSULATION	70% / 65%				50	5				
A145	ADMIN. OFFICE												
A146	OFFICE												
A147	OFFICE												
A148	STORAGE												
A149	OFFICE	3	PIPE/FITTING INSULATION	70% / 65%				8	1				INSULATION IN ENCLOSED CHASE
A150	OFFICE	3	PIPE/FITTING INSULATION	70% / 65%				80	22				
A151	MAIL ROOM												

ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
SECOND FL.													
	CORRIDOR	5	1' X 1' CEILING TILE - SMOOTH SURFACE	15%		500							
	CORR. NEAR ELEVATOR	26, 6	12" BROWN FLOOR TILE/MASTIC	< 1% / 14%	40								TILE IS IN WEST SIDE OF CORRIDOR ONLY
A231	OFFICE												
A232	OFFICE												
A233	OFFICE												
A234	OFFICE												
A235	OFFICE												
A236	OFFICE												
A237	OFFICE												
A238	OFFICE	3	PIPE/FITTING INSULATION	70% / 65%				30	2				
A239	KITCHENETTE												
A240	OFFICE												
A241	MAIN OFFICE												
A242	BATHROOM												
A243	OFFICE												
A244	PHONE CLOSET												
A245	PIPE CHASE	3	PIPE/FITTING INSULATION	70% / 65%				30	3				SOME DAMAGED INSULATION
A246	OFFICE												
A247	OFFICE	3	PIPE/FITTING INSULATION	70% / 65%				16	2				
A248	OFFICE												
A249	OFFICE												
A250	OFFICE												
A251	OFFICE												
A252	OFFICE												
A253	OFFICE												

ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
THIRD FLOOR													
	CORRIDOR												
	CORR. NEAR ELEVATOR	26, 6	12" BROWN FLOOR TILE/MASTIC	< 1% / 14%	40								
A322	OFFICE												
A323	OFFICE												
A324	OFFICE												
A325	OFFICE												
A326	OFFICE												
A327	OFFICE												
A328	OFFICE												
A329	PIPE CHASE	3	PIPE/FITTING INSULATION	70% / 65%				40	3				
A330	ELECTRICAL CLOSET												
	COMPUTER ROOM												
A331	BATHROOM												
A335													
ATTIC													
ATTIC													
STAIRWELLS													
EAST	EAST STAIRWELL LANDINGS	1, 2	9" GREEN FLOOR TILE/MASTIC	7% / 28%	250								BASEMENT LANDING
EAST	EAST STAIRWELL LANDINGS	1, 2	9" GREEN FLOOR TILE/MASTIC	7% / 28%	60								INTER. BETWEEN BASE. AND FIRST
EAST	EAST STAIRWELL LANDINGS	1, 2	9" GREEN FLOOR TILE/MASTIC	7% / 28%	60								FIRST FLOOR LANDING
WEST	WEST STAIRWELL LANDINGS	26, 6	12" BROWN FLOOR TILE/MASTIC	< 1% / 14%	280								BASEMENT LANDING
WEST	WEST STAIRWELL LANDINGS	1, 2	9" GREEN FLOOR TILE/MASTIC	7% / 19%	60								INTER. BETWEEN BASE. AND FIRST
WEST	WEST STAIRWELL LANDINGS	1, 2	9" GREEN FLOOR TILE/MASTIC	7% / 19%	60								FIRST FLOOR LANDING

ADMINISTRATION BUILDING
MYSTIC EDUCATION CENTER
INVENTORY OF IDENTIFIED
ASBESTOS-CONTAINING MATERIALS

ROOM NUMBER	ROOM NAME	HOMOGENEOUS AREA	SUSPECT MATERIAL DESCRIPTION	ASBESTOS CONTENT (%)	FLOORING (SF)	CEILING (SF)	WALLS (SF)	PIPE INSULATION (LF)	PIPE FITTING INSULATION (EA)	DUCT INSULATION (SF)	EQUIPMENT INSULATION (SF)	MISCELLANEOUS (SF)	COMMENTS/CONDITION
ETC AREA													
TUNNEL	STEAM PIPING TO ELEC. ROOM	3	PIPE/FITTING INSULATION	70% / 65%				1000	30				QUANTITIES ARE ESTIMATES
BASEMENT													
CRAWLSPACE	STEAM PIPE CRAWLSPACE	3	PIPE/FITTING INSULATION	70% / 65%				1400	60				DIRT FLOOR; INSUL. IS IN FAIR CONDITION
FIRST FLOOR													
PIPE CHASE	ACCESS IN MEN'S BATHROOM	3	PIPE/FITTING INSULATION	70% / 65%				60	10				
SECOND FL.													
PIPE CHASE	ACCESS IN BATHROOM	3	PIPE/FITTING INSULATION	70% / 65%				60	10				
THIRD FLOOR													
PIPE CHASE	ACCESS IN BATHROOM	3	PIPE/FITTING INSULATION	70% / 65%				60	10				
STAIRWELLS													
NORTH	MAIN STAIRWELL	1, 2	9" GREEN FLOOR TILE/MASTIC	7% / 19%	80								INTER. LANDING BET. 1ST AND 2ND FL.
NORTH	MAIN STAIRWELL	1, 2	9" GREEN FLOOR TILE/MASTIC	7% / 19%	80								SECOND FLOOR LANDING
	TOTALS:				7,145	4,200	0	3,224	226	0	0	0	

APPENDIX B

Asbestos Bulk Sample Laboratory Data Sheets/Chain of Custody

ChemScope INDUSTRIAL HYGIENE • ENVIRONMENTAL CHEMISTRY
P.O. BOX 389 FAIR HAVEN STATION, NEW HAVEN, CT 06513-0389
15 Moulthrop Street., North Haven, CT 06473-3686 • Phone (203) 865-5605 • Fax (203) 498-1610

RECEIVED SEP 25 2000

Certificate Of Analysis

Delta Environmental Services, Inc.
PO Box 564
81 Schoolground Road
Branford CT 06405

9/21/00
CS# 142-666

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-1 Brown hard flooring material on beige woven material () / 1-Corridor Outside AIY5	*No Asbestos Detected* *39% Non- Fibrous Particles* *61% Volatile on Ignition*
142-666-2 Brown hard flooring material on beige woven material () / 2-Corridor Outside AIY9	*No Asbestos Detected* *49% Non- Fibrous Particles* *51% Volatile on Ignition*
142-666-3 Hard green 9x9 floor tile (on black mastic) / 3-Landing Between Basement and First Floor	*Not Analyzed*
142-666-4 Hard green 9x9 floor tile (on black mastic) / 4-Landing Between Basement and First Floor	*Not Analyzed*

NVLAP ACCREDITED LAB# 101061-0

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-5 Hard green 9x9 floor tile (on black mastic) / 5-Landing Between Basement and First Floor	*Not Analyzed*
142-666-6 Black mastic (from under sample #3) / 5-Landing Between Basement and First Floor	*28% Chrysotile Asbestos* *18% Non- Fibrous Particles* *54% Volatile on Ignition*
142-666-7 Black mastic (from under green 9x9 floor tile) / 6-Landing Between Basement and First Floor	*Not Analyzed*
142-666-8 Black mastic (from under green 9x9 floor tile) / 7-Landing Between Basement and First Floor	*Not Analyzed*
142-666-9 White hard plaster layer (on light gray granular plaster layer) / 8-East Stairwell Landing Between Second and Third Floors	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-10 Light gray granular plaster layer (from under sample #9) / 9-East Stairwell Landing Between Second and Third Floors	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-11 Hard brown 12x12 floor tile (on brown and black mastic) / 10-Third Floor in Front of Elevator	*<1% Chrysotile Asbestos* *77% Non- Fibrous Particles* *23% Volatile on Ignition*
142-666-12 Brown and black mastic (from under sample #11) / 10-Third Floor in Front of Elevator	*<1% Chrysotile Asbestos* *66% Non- Fibrous Particles* *34% Volatile on Ignition*
142-666-13 Brown brittle molding adhesive () / 11-Third Floor	*No Asbestos Detected* *50% Non- Fibrous Particles* *50% Volatile on Ignition*
142-666-14 Brown brittle molding adhesive () / 12-Third Floor	*No Asbestos Detected* *55% Non- Fibrous Particles* *45% Volatile on Ignition*
142-666-15 Brown brittle molding adhesive (on white hard plaster layer) / 13-Third Floor	*No Asbestos Detected* *51% Non- Fibrous Particles* *49% Volatile on Ignition*
142-666-16 White hard plaster layer (from under sample #15) / 13-Third Floor	*No Asbestos Detected* *100% Non- Fibrous Particles*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-17 Hard brown 12x12 floor tile (on black mastic) / 14-First Floor in Front of Elevator	*Not Analyzed*
142-666-18 Black mastic (from under sample #17) / 14-First Floor in Front of Elevator	*12% Chrysotile Asbestos* *7% Non- Fibrous Particles* *81% Volatile on Ignition*
142-666-19 Gray fibrous 12x12 ceiling tile with a white face () / 15-Basement Cafeteria	*No Asbestos Detected* *15% Non- Fibrous Particles* *65% Mineral Wool* *20% Cellulose*
142-666-20 Brown hard glue dab () / 15A-Basement Cafeteria	*No Asbestos Detected* *52% Non- Fibrous Particles* *48% Volatile on Ignition*
142-666-21 Gray fibrous 12x12 ceiling tile with a white face () / 16-Basement Cafeteria	*No Asbestos Detected* *15% Non- Fibrous Particles* *65% Mineral Wool* *20% Cellulose*
142-666-22 Brown hard glue dab () / 16A-Basement Cafeteria	*No Asbestos Detected* *55% Non- Fibrous Particles* *45% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-23 Gray fibrous 12x12 ceiling tile with a white face () / 17-Basement Cafeteria	*No Asbestos Detected* *15% Non- Fibrous Particles* *65% Mineral Wool* *20% Cellulose*
142-666-24 Brown hard glue dab () / 17A-Basement Cafeteria	*No Asbestos Detected* *52% Non- Fibrous Particles* *48% Volatile on Ignition*
142-666-25 White crumbly joint compound with off-white painted face () / 18-Basement West Side Landing	*No Asbestos Detected* *87% Non- Fibrous Particles* *13% Volatile on Ignition*
142-666-26 White crumbly joint compound with off-white painted face () / 19-Basement West Side Landing	*No Asbestos Detected* *90% Non- Fibrous Particles* *10% Volatile on Ignition*
142-666-27 White crumbly joint compound with off-white painted face () / 20-Basement West Side Landing	*No Asbestos Detected* *85% Non- Fibrous Particles* *15% Volatile on Ignition*
142-666-28 Gray flexible molding (on brown and white adhesive) / 21-Basement West Side Landing	*No Asbestos Detected* *82% Non- Fibrous Particles* *18% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
142-666-29 Brown and white adhesive (from under sample #28) / 21-Basement West Side Landing	*No Asbestos Detected* *35% Non- Fibrous Particles* *65% Volatile on Ignition* *<1% Wollastonite*
142-666-30 Hard brown 12x12 floor tile (on black mastic) / 22-Basement West Side Landing	*Not Analyzed*
142-666-31 Black mastic (from under sample #30) / 22-Basement West Side Landing	*14% Chrysotile Asbestos* *26% Non- Fibrous Particles* *60% Volatile on Ignition*
142-666-32 Hard white 12x12 floor tiel with green streaks (on gray mastic) / 23-Basement Cafeteria	*No Asbestos Detected* *86% Non- Fibrous Particles* *14% Volatile on Ignition*
142-666-33 Hard white 12x12 floor tiel with green streaks (on gray mastic) / 24-Basement Cafeteria	*No Asbestos Detected* *85% Non- Fibrous Particles* *15% Volatile on Ignition*
142-666-34 Hard white 12x12 floor tiel with green streaks (on gray mastic) / 25-Basement Cafeteria	*No Asbestos Detected* *86% Non- Fibrous Particles* *14% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-35 Gray mastic (from under sample #32) / 23-Basement Cafeteria	*No Asbestos Detected* *42% Non- Fibrous Particles* *58% Volatile on Ignition*
142-666-36 Gray mastic (from under sample #33) / 24-Basement Cafeteria	*No Asbestos Detected* *18% Non- Fibrous Particles* *82% Volatile on Ignition*
142-666-37 Gray mastic (from under sample #34) / 25-Basement Cafeteria	*No Asbestos Detected* *31% Non- Fibrous Particles* *69% Volatile on Ignition*
142-666-38 Beige crumbly molding adhesive with a brown undercoating () / 26-Basement Cafeteria	*No Asbestos Detected* *83% Non- Fibrous Particles* *17% Volatile on Ignition*
142-666-39 Brown hard flooring material on brown woven material () / 27-Girl's Building G106	*No Asbestos Detected* *33% Non- Fibrous Particles* *67% Volatile on Ignition*
142-666-40 Brown hard flooring material on brown woven material () / 28-Girl's Building G106	*No Asbestos Detected* *28% Non- Fibrous Particles* *72% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-71 Black mastic (from under gray 9x9 floor tile) / 54-Wipple Room 165	*Not Analyzed*
142-666-72 White hard plaster layer (on light gray granular plaster layer) / 55-Girl's Building Second Floor Corridor	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-73 Light gray granular plaster layer (from under sample #72) / 56-Girl's Building Second Floor Corridor	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*
142-666-74 White hard plaster layer (on light gray granular plaster layer) / 57-Girl's Building Basement	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-75 Light gray granular plaster layer (from under sample #74) / 58-Girl's Building Basement	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair*
142-666-76 White hard plaster layer (on light gray granular plaster layer) / 59-Administration Building Stairs to Basement Near A-B	*No Asbestos Detected* *100% Non- Fibrous Particles*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-77 Light gray granular plaster layer (from under sample #76) / 60-Administration Building Stairs to Basement Near A-B	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Horse Hair* *<1% Cellulose*
142-666-78 Gray fbrous 2x4 ceiling tile () / 61-Administration Building Landing Near A-B	*No Asbestos Detected* *15% Non- Fibrous Particles* *50% Cellulose* *35% Mineral Wool*
142-666-79 Gray fbrous 2x4 ceiling tile () / 62-Administration Building Landing Near A-B	*No Asbestos Detected* *15% Non- Fibrous Particles* *50% Cellulose* *35% Mineral Wool*
142-666-80 Gray fbrous 2x4 ceiling tile () / 63-Administration Building Landing Near A-B	*No Asbestos Detected* *15% Non- Fibrous Particles* *50% Cellulose* *35% Mineral Wool*
142-666-81 Dark gray hard ceiling cement skim coat with an off-white face () / 64-Room A238	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-82 Dark gray hard ceiling cement skim coat with an off-white face () / 65-Room A238	*No Asbestos Detected* *100% Non- Fibrous Particles*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00 .

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-83 Dark gray hard ceiling cement skim coat with an off-white face () / 66-Room A238	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-84 White hard plaster layer (on light gray granular plaster layer) / 67-Room A238	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-85 Light gray granular plaster layer (from under sample #84) / 68-Room A238	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
142-666-86 White hard plaster layer (on light gray granular plaster layer) / 69-Room A238	*No Asbestos Detected* *100% Non- Fibrous Particles*
142-666-87 Light gray granular plaster layer (from under asmple #86) / 69-Room A238	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
142-666-88 Light gray fibrous 12x12 type I ceiling tile (on brown hard glue dab) / 70-Administration Building Corridor Near A252 Second Floor-West Side	*15% Amosite Asbestos* *20% Non- Fibrous Particles* *65% Mineral Wool* *<1% Cellulose*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-89 Light gray fibrous 12x12 type I ceiling tile (on brown hard glue dab) / 71-Administration Building Corridor Near A252 Second Floor-West Side	*Not Analyzed*
142-666-90 Light gray fibrous 12x12 type I ceiling tile (on brown hard glue dab) / 72-Administration Building Corridor Near A252 Second Floor-West Side	*Not Analyzed*
142-666-91 Brown hard glue dab (from under sample #88) / 70-Administration Building Corridor Near A252 Second Floor-West Side	*No Asbestos Detected* *52% Non- Fibrous Particles* *48% Volatile on Ignition*
142-666-92 Brown hard glue dab (from under sample #89) / 71-Administration Building Corridor Near A252 Second Floor-West Side	*No Asbestos Detected* *52% Non- Fibrous Particles* *48% Volatile on Ignition*
142-666-93 Brown hard glue dab (from under sample #90) / 72-Administration Building Corridor Near A252 Second Floor-West Side	*No Asbestos Detected* *54% Non- Fibrous Particles* *46% Volatile on Ignition*
142-666-94 White hard plaster layer (on light gray granular plaster layer) / 73-Administration Building Corridor Near A252 Second Floor-West Side	*No Asbestos Detected* *100% Non- Fibrous Particles*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
142-666-95 Light gray granular plaster layer (from under sample #94) / 74-Administration Building Corridor Near A252 Second Floor-West Side	*2% Amosite Asbestos* *88% Non- Fibrous Particles* *10% Mineral Wool* *<1% Cellulose* *<1% Horse Hair*
142-666-96 Tan fibrous 12x12 large pinhole ceiling tile with a white face () / 75-Administration Building Corridor Second Floor-East Side	*No Asbestos Detected* *2% Non- Fibrous Particles* *98% Cellulose*
142-666-97 Tan fibrous 12x12 large pinhole ceiling tile with a white face () / 76-Administration Building Corridor Second Floor-East Side	*No Asbestos Detected* *2% Non- Fibrous Particles* *98% Cellulose*
142-666-98 Tan fibrous 12x12 large pinhole ceiling tile with a white face () / 77-Administration Building Corridor Second Floor-East Side	*No Asbestos Detected* *2% Non- Fibrous Particles* *98% Cellulose*
142-666-99 Brown hard glue dab (from under 12x12 ceilign tile) / 78-Administration Building Corridor Second Floor-East Side	*No Asbestos Detected* *48% Non- Fibrous Particles* *52% Volatile on Ignition*
142-666-100 White hard plaster layer (on light gray granular plaster layer) / 79-G104	*No Asbestos Detected* *100% Non- Fibrous Particles*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 9/19/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification **Findings**

AIHA Bulk Asbestos Proficiency Analytical Testing (PAT) Program. PAT Proficient Lab #100134
Accreditation by the National Institute of Standards and Technology/National Voluntary Lab
Accreditation Program (NVLAP) does not imply endorsement by this Federal Agency.
This report pertains only to the samples tested and may not be reproduced in part.
The scope of Accreditation referenced in this report pertains to bulk asbestos analysis by PLM.
Connecticut Approved Environmental Lab PH 0581
See test parameters on reverse side of this report.

Signature (if applicable)	Signature (if applicable)	*Authorized Signature:*	or	*Authorized Signature:*
Analyst	Inspector	*Ronald D. Arena* *Director*		*Suzanne Cristante* *QA Coordinator*

NVLAP ACCREDITED LAB# 101061-0

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS ~~REQUIRED~~	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
1	Imitation wood Linoleum						No Asbestos Detected	Corridor outside A145				
2	↓						No Asbestos Detected.	Corridor outside A149				
3	Green 9" Floor Tile						Not Analyzed	Landing between Basement/First Floor				
4	↓						↓	↓				
5	↓						↓	↓				
6	Mastic from Green 9" Floor Tile						28% Chrysotile Asbestos.	↓				
7	↓							↓				
8	Wall plaster top coat						No Asbestos Detected	East stairwell landing between 2nd & 3rd				
9	Wall plaster brown coat						No Asbestos Detected.	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patrick	9-19-00	1:00pm
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services, Inc.

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10	Brown 12" Floor Tile							3rd Floor in Front of Elevator				
11	Molding Adhesive							Third Floor				
12	↓							↓				
13	Molding Adhesive with plaster top coat							↓				
14	Brown 12" Floor Tile							1st Floor in Front of Elevator				
15	12"x12" Ceiling Tile						No Asbestos Detected	Basement Cafeteria				
15A	Glue Dot						No Asbestos Detected	↓				
16	12" x 12" Ceiling Tile							↓				
16A	Glue Dot							↓				

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				1			G. Patucelli	9-19-00	1:00p
ADDITIONAL COMMENTS:				2					
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17	12" x 12" Ceiling Tile							Basement Cafeteria				
17A	Glue Dot							↓				
18	Joint Compound							Basement West Side Landing				
19	↓							↓				
20	↓							↓				
21	Molding Adhesive							↓				
22	Brown 12" Floor Tile							↓				
23	White 12" Floor Tile w/ Green Streaks							Basement Cafeteria				
24	↓							↓				

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25	White 12" Floor Tile w/ Green Stream							Basement Cafeteria				
26	Molding Adhesive							↓				
27	Brown Linoleum						No Asbestos Detected	Girl's Building G106				
28	↓						↓	↓				
29	↓						↓	↓				
30	Tan 12" Floor Tile							G106 (Salient Area)				
31	↓							↓				
32	↓							↓				
33	Wall Plaster Top Coat						No Asbestos Detected	↓				

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34	Wall Plaster Brown Coat						No Asbestos Detected	G106				
35	Wall Plaster Top Coat						↓	G107				
36	Wall Plaster Brown Coat						↓	↓				
37	Joint Compound Partition Wall											
38	↓											
39	↓											
40	Sheetrock Partition Wall											
41	↓											
42	↓							↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

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				1			G. Patucci	9-19-00	1:00pm
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CHAIN-OF-CUSTODY RECORD

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43	Pipe Insulation							Kitchen Area Near GYE above ceiling				
44	2x4 suspended ceiling tile											
45												
46												
47	Wall plaster top coat						No Asbestos	Stairwell landing to basement Kitchen Area				
48	Wall plaster brown coat						No Asbestos					
49	Light brown 9" Floor Tile						Not Analyzed.	Wheeler Corridor No. 1 Near Dining Rm				
50	Mastic from light brown 9" Floor Tile						11% Chrysotile Asbestos					
51	Gray 9" Floor Tile						Not Analyzed	Room 165 Wheeler				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

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S2	Gray 9" Floor Tile							Room 165 Whipple				
S3	↓							↓				
S4	Mastic from Gray 9" Floor Tile						8% Chrysotile Asbestos	↓				
S5	Wall Plaster Top Coat							Girls' Building 2nd Floor Corridor				
S6	Wall Plaster Brown Coat							↓				
S7	Wall Plaster Top Coat						No Asbestos	Girls' Building Basement				
S8	Wall Plaster Brown Coat						No Asbestos	↓				
S9	Wall Plaster Top Coat						No Asbestos	Admin. Bldg. Stairs to Basement Near A-8				
S10	Wall Plaster Brown Coat						No Asbestos	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
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CHAIN-OF-CUSTODY RECORD

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ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
61	Ceiling Tile 2'x4' suspended							Landing near A-8 (Admin. Bldg)				
62	↓							↓				
63	↓							↓				
64	Ceiling Cement/ Skim Coat							Room A238				
65	↓							↓				
66	↓							↓				
67	Wall Plaster Top Coat							↓				
68	Wall Plaster Base Coat							↓				
69	Wall Plaster Base Coat						White-No Asbestos Lt gray-No Asbestos	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	~~ACCEPTED BY~~	DATE	TIME
				1			G. Palucelli	9-19-00	1:00pm
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				3					
				4					

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-140-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
70	12" x 12" Ceiling Tile + Type 1	Glue Dot					15% Amosite Asbestos	Admin. Bldg Corridor Near A252 2nd Floor - West side				
71												
72												
73	Ceiling plaster Tan Coat						No Asbestos.					
74	Ceiling plaster Brown Coat						2% Amosite Asbestos					
75	12" x 12" Ceiling Tile Large pinhole						No Asbestos.	Admin Bldg Corridor 2nd Floor - East side				
76												
77												
78	Glue Dot from 12" x 12" ceiling Tile											

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle
Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

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79	Ceiling plaster Both Layers							G 104				
80	Pipe fitting on fiberglass Insulation						No Asbestos Detected.	whipple corridor above ceiling near 156				
81	↓							↓				
82	↓							↓				
83	Tan 9" Dot Pattern Floor Tile						3% Chrysotile Asbestos	whipple corridor connecting passage				
84	↓							↓				
85	↓							↓				
86	Light Brown 9" Floor Tile	[illegible]						whipple corridor near Exit				
87	↓							↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

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ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
88	Green 9" Floor Tile							Whipple Cafeteria				
89	↓							↓				
90	↓							↓				
91	Beige 9" Floor Tile							↓				
92	↓							↓				
93	↓							↓				
94	2'x2' Sqr. Ceiling Tile							Whipple Corridor				
95	↓							↓				
96	↓							↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

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				1			G. Patucelli	9-19-01	1:00p
ADDITIONAL COMMENTS:				2					
				3					
				4					

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEdu.Ctr.;Admin.Bldg.,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248491 **Material Description:** Brown/White
Client No.: 27 **Location:** Ceiling Tile Room A124

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	95	Cellulose	5

Lab No. 1248492 **Material Description:** Brown/White
Client No.: 28 **Location:** Ceiling Tile Room A124

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	95	Cellulose	5

Lab No. 1248493 **Material Description:** Brown/White
Client No.: 29 **Location:** Ceiling Tile Room A124

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	95	Cellulose	5

Lab No. 1248494 **Material Description:** Tan Mastic
Client No.: 30 **Location:** A/W Ceiling Tile Room A124

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent on endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Thom Snyder

Date: MAR 3 . 2001

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEdu.Ctr.;Admin.Bldg.,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248495 **Material Description:** Tan Mastic
Client No.: 31 **Location:** A/W Ceiling Tile Room A124

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1248496 **Material Description:** Tan Mastic
Client No.: 32 **Location:** A/W Ceiling Tile Room A124

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1248497 **Material Description:** Brown Mastic
Client No.: 33 **Location:** A/W Ceiling Tile Room A124

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC Trace	Tremolite	8	Other	92

Lab No. 1248498 **Material Description:** Brown Mastic
Client No.: 34 **Location:** A/W Ceiling Tile Room A124

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC Trace	Tremolite	6	Other	94

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Thom Snyder

Date: MAR 3 1 20

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEdu.Ctr.;Admin.Bldg.,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248499 **Material Description:** Brown Mastic
Client No.: 35 **Location:** A/W Ceiling Tile Room A124

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC Trace	Tremolite	8	Other	92

Lab No. 1248500 **Material Description:** Black Tar
Client No.: 36 **Location:** Room A124 A/W Blackboard

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
15	Chrysotile	None Detected	None Detected	85

Lab No. 1248501 **Material Description:** Sample Not Analyzed
Client No.: 37 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1248502 **Material Description:** Sample Not Analyzed
Client No.: 38 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Thom Snyder

Date: MAR

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEdu.Ctr.;Admin.Bldg.,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248503 **Material Description:** Brown/WhiteSheetrock
Client No.: 39 **Location:** Basement West Landing

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	90	Cellulose	10

No Joint Compound

Lab No. 1248504 **Material Description:** Brown/WhiteSheetrock
Client No.: 40 **Location:** Basement West Landing

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	95	Cellulose	5

No Joint Compound

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Thom Snyder

Date: MAR

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

ATL International Asbestos Testing Laboratories
16000 Rol
Telephone: 609.231.9449 FAX: 609.231.9818

9779

- Chain of Custody -

Client: Delta Environmental Services
P.O. Box 564
Branford, CT 06405

Phone: (203) 481-7668
FAX: (203) 488-8164

Project Name: Music Education Center
Project No.: Milford, CT
097-148-24

Contact: Jim McCarthy
Pager:

Special Instructions:

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[✓] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400
[ ] PCM : OSHA
[ ] PCM : Other_____

[ ] AAS : NIOSH 7082 (Air)
[ ] AAS : Lead in Drinking Water
[ ] AAS : Lead in Paint ASTM D3335-85a
[ ] AAS : Lead Dust/Wipe
[ ] AAS : Other Metals / Soil_____

[✓] PLM : Bulk Asbestos EPA 600
[ ] PLM : Point Counting 198.1
[ ] PLM : NOB via 198.1 (PLM only)
[ ] If <1% by PLM, to TEM via 198.4 to meet NYSDOH requirements **
(**call to confirm TAT!)

[ ] TEM : AHERA
[ ] TEM : NIOSH 7402
[ ] TEM : EPA Level II
[ ] TEM : Microvac Dust
[ ] TEM : Asbestos in Water
[ ] TEM : Bulk Analysis
[ ] TEM : NOB 198.4
[ ] TEM : Other_____
[ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ (date / time) Verbals: _____ (date / time)

[ ] 10 Day [ ] 5 Day [ ] 72 hour [✓] 48 hour [ ] 24 hour [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): _____ (start) - _____ (end)

IATL#(s): _____ (start) - _____ (end) Total: 242

Chain of Custody:

Relinquished: James R McCarthy	Date: 3/27/01	Time: 12:00 PM
Received:	Date:	Time:
Sample Log-in: 03/29 2:50	Date:	Time:
Sample Prep:	Date:	Time:
Analyzed:	Date: 3/31/01	Time:
QA/QC Review:	Date:	Time:

MAR 29 2001

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Administration Building Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED		COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
27	Symmetrical Pinhole Ceiling Tile						Asbestos PCM EPA 600 1248491	Positive stop	Room A124				
28							1248192						
29							1248493						
30	Brown Glue Dot From Symmetrical Pinhole Ceiling Tile						1248494	Positive stop					
31							1248495						
32							1248496						
33	Dark Brown Glue Dot From Asymmetrical Pinhole Ceiling Tile						1248497	Positive stop					
34							1248498						
35							1248499						

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME
James R Melanthos	Delta	3/26/01	3:00 PM

TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
1	1-9	James R Melanthos			
2					
3					
4					

ADDITIONAL COMMENTS:

0024F

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center Administration Building

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
36	Black Tarry Adhesive From Behind Blackboard						1248500 Positive Stop	Room A124				
37	↓						1248501 ↓	↓				
38	↓						1248502					
39	Sheetrock						1248503	Basement West Landing				
40	↓						1248504	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1					
ADDITIONAL COMMENTS:				2					
				3					
				4					

0024F

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 11/24/2000
Project: Mystic Education Center, 11-14-00
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1184278 **Material Description:** Brown Floor Tile
Client No.: 97 **Location:** Basement Maintenance Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC Trace	Chrysotile	None Detected	None Detected	100
No Mastic				

Lab No. 1184279 **Material Description:** Black Mastic
Client No.: 98 **Location:** Basement Maintenance Shop

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1184280 **Material Description:** White Ceiling Tile
Client No.: 127 **Location:** Girls Bldg. Copy Center

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 5.4	Amosite	70	Fibrous Glass	PC 24.6

Lab No. 1184281 **Material Description:** Sample Not Analyzed
Client No.: 128 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent on endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Albert Grohmann
Date: NOV 28 2000

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

ChemScope INDUSTRIAL HYGIENE • ENVIRONMENTAL CHEMISTRY
P.O. BOX 389 FAIR HAVEN STATION, NEW HAVEN, CT 06513-0389
15 Moulthrop Street., North Haven, CT 06473-3686 • Phone (203) 865-5605 • Fax (203) 498-1610

RECEIVED NOV 20 2000

Certificate Of Analysis

Delta Environmental Services, Inc.
PO Box 564
81 Schoolground Road
Branford CT 06405

11/27/00
CS# 143-248

Bulk sample(s) from Mystic Educational Center, Mystic CT received from customer on 11/15/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
143-248-1 White hard plaster top coat with a white face (ceiling) / 99-Administration Building-Basement-Mens' Room	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose*
143-248-2 Brown granular plaster layer (ceiling) / 100-Administration Building-Basement-Mens' Room	*No Asbestos Detected* *100% Non- Fibrous Particles*
143-248-3 White hard plaster top coat on gray granular plaster layer with a beige face (ceiling) / 101-Administratian Building-Corridor-Near A251	*No Asbestos Detected* *100% Non- Fibrous Particles*
143-248-4 Gray granular plaster layer (ceiling) / 102-Administration Building-Corridor-Near A251	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose*

NVLAP ACCREDITED LAB# 101061-0

Bulk sample(s) from Mystic Educational Center, Mystic CT received from customer on 11/15/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
143-248-5 White hard plaster top coat with an off-white face (wall) / 103-Administration Building-Near A251	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Synthetic Fibers*
143-248-6 Gray granular plaster layer (wall) / 104-Administration Building-Near A251	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
143-248-7 White hard plaster top coat with a pale blue face (wall) / 105-Administration Building-Third Floor-Corridor	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose*
143-248-8 Gray granular plaster layer (wall) / 106-Administration Building-Third Floor-Corridor	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
143-248-9 White hard plaster top coat on gray granular plaster layer with a pale blue face (ceiling) / 107-Administration Building-Third Floor Corridor-Opposite A328	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*
143-248-10 White hard plaster top coat on gray granular plaster layer with a pale blue face (ceiling) / 108-Administration Building-Third Floor Corridor-Opposite A328	*No Asbestos Detected* *100% Non- Fibrous Particles* *<1% Cellulose* *<1% Horse Hair*

NVLAP **ACCREDITED LAB# 101061-0**

Bulk sample(s) from Mystic Educational Center, Mystic CT received from customer on 11/15/00

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings

AIHA Bulk Asbestos Proficiency Analytical Testing (PAT) Program. PAT Proficient Lab #100134
Accreditation by the National Institute of Standards and Technology/National Voluntary Lab Accreditation Program (NVLAP) does not imply endorsement by this Federal Agency.
This report pertains only to the samples tested and may not be reproduced in part.
The scope of Accreditation referenced in this report pertains to bulk asbestos analysis by PLM.
Connecticut Approved Environmental Lab PH 0581
See test parameters on reverse side of this report.

Signature (if applicable)	Signature (if applicable)	*Authorized Signature:*	or	*Authorized Signature:*
Analyst	Inspector	*Ronald D. Arena* *Director*		*Suzanne Cristante* *QA Coordinator*

NVLAP ACCREDITED LAB# 101061-0

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Educational Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
99	Plaster Top Coat						PLEASE USE - SAMPLES POSITIVE STOP 99-108	Admin. Bldg Basement - Mens Room Ceiling				
2 100	Plaster Brown Coat											
3 101	Plaster Both Layers						No Asbestos Detected.	Admin Bldg Corridor Ceiling Near A251				
4 102	Plaster Brown Coat						No Asbestos Detected					
5 103	Wall Plaster Top Coat						No Asbestos Detected	Admin Bldg Near A251				
6 104	Wall Plaster Brown Coat						No Asbestos Detected					
7 105	Wall Plaster Top Coat							3rd Floor Admin. Bldg. Corridor				
8 106	Wall Plaster Brown Coat											
9 107	Ceiling Plaster Both Layers							3rd Floor Corridor Admin Bldg Opposite A328				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	~~ACCEPTED BY~~	DATE	TIME
				1			G. Patucelli	11-15-00	9:53am
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Educational Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
108	Ceiling, both plaster layers							3rd Floor Corridor Admin Bldg opposite A328				
109	Wall plaster Top Coat						PLEASE USE SAMPLES POSITIVE STOP 109-126 No Asbestos Detected	G101 - North Wall				
110	Wall plaster Brown Coat						No Asbestos Detected	↓				
111	Wall plaster Top Coat							G101 - SE Corner				
112	Wall plaster Brown Coat							↓				
113	Ceiling plaster Top Coat							G 103				
114	Ceiling plaster Brown Coat							↓				
115	Wall plaster Top Coat							G 110				
116	Wall plaster Brown Coat						↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Paticelli	11-15-00	9:53am
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Educational Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify ___, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
117	Wall plaster Brown coat						PLEASE USE POSITIVE STOP SAMPLES 109-126 No Asbestos Detected	Girls' Bldg Room Below G101 Near wall				
118	↓						No Asbestos Detected	↓ Far wall				
119	Wall plaster Top coat							Room G7				
120	Wall plaster Brown coat							↓				
121	Wall plaster Top coat							Room G5				
122	Wall plaster Brown coat							↓				
123	Wall plaster Top coat							Room G8				
124	Wall plaster Brown coat							↓				
125	Wall plaster Top coat						↓	Room G216				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify ___

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patricelli	11-15-00	9:53am
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
126	Wall plaster Brown Coat							Room 6216				

Container Codes: P = Plastic E = EPA VIAL G = Glass A = Amber Glass B = Bacteria Bottle
Preservative Codes: I = Iced F = Filtered N = Nitric Acid (HNO_3) H = Hydrochloric Acid (HCl) S= Sodium Hydroxide (NaOH) T = Sodium Thiosulfate F = Sulfuric Acid
O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
				1			G. Patrick	11-15-00	9:53am
ADDITIONAL COMMENTS:				2					
				3					
				4					

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Administration Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217321 **Material Description:** Tan Window Caulk
Client No.: 142 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1217322 **Material Description:** Tan Window Caulk
Client No.: 143 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1217323 **Material Description:** Tan Window Caulk
Client No.: 144 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1217324 **Material Description:** Grey Window Glaze
Client No.: 145 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.5	Chrysotile	None Detected	None Detected	PC 96.5

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Graciela Manjarres N.

Date: JAN 31 2001

Graciela Manjarres N., AIHA-AAP [illegible]

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Administration Building
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217325 **Material Description:** Sample Not Analyzed
Client No.: 146 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1217326 **Material Description:** Sample Not Analyzed
Client No.: 147 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Graciela Manjarres N.

Approved By: Frank Ehrenfeld

Date: JAN 31 2001

Graciela Manjarres N., AIHA-AAP [illegible]

Frank E. Ehrenfeld, III
Laboratory Director

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Administration Building

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
142	Window caulk				12	17321	Asbestos PLM EPA 600 PLEASE USE POSITIVE STOP					
143	↓				12	17322	↓					
144	↓				12	17323	↓					
145	Window Glazing				12	17324	PLEASE USE POSITIVE STOP					
146	↓				12	17325	↓					
147	↓				12	17326	↓					

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
				2					
				3					
				4		[illegible]		1/31/2001	

ADDITIONAL COMMENTS:

LSG 1/30

JAN 26

ChemScope INDUSTRIAL HYGIENE • ENVIRONMENTAL CHEMISTRY
P.O. BOX 389 FAIR HAVEN STATION, NEW HAVEN, CT 06513-0389
15 Moulthrop Street., North Haven, CT 06473-3686 • Phone (203) 865-5605 • Fax (203) 498-1610

RECEIVED JAN 1 2001

Certificate Of Analysis

Delta Environmental Services, Inc.
PO Box 564
81 Schoolground Road
Branford CT 06405

1/8/01
CS# 143-726

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 1/4/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
143-726-1 Light brown 9x9 floor tile with white streaks (on orange mastic) / 1-Administrative Building A151	*No Asbestos Detected* *58% Non- Fibrous Particles* *3% Wollastonite* *39% Volatile on Ignition*
143-726-2 Light brown 9x9 floor tile with white streaks (on orange mastic) / 2-Administrative Building A151	*No Asbestos Detected* *58% Non- Fibrous Particles* *3% Wollastonite* *39% Volatile on Ignition*
143-726-3 Light brown 9x9 floor tile with white streaks (on orange mastic) / 3-Administrative Building A151	*No Asbestos Detected* *57% Non- Fibrous Particles* *3% Wollastonite* *40% Volatile on Ignition*
143-726-4 Orange mastic (from under sample #1) / 1-Administrative Building A151	*No Asbestos Detected* *45% Non- Fibrous Particles* *55% Volatile on Ignition*

NVLAP ACCREDITED LAB# 101061-0

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 1/4/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
143-726-5 Orange mastic (from under sample #2) / 2-Administrative Building A151	*No Asbestos Detected* *39% Non- Fibrous Particles* *61% Volatile on Ignition*
143-726-6 Orange mastic (from under sample #3) / 3-Administrative Building A151	*No Asbestos Detected* *30% Non- Fibrous Particles* *70% Volatile on Ignition*
143-726-7 Red 9x9 floor tile with white streaks (on black mastic) / 4-Girl's Building-Room G7	*3% Chrysotile Asbestos* *71% Non- Fibrous Particles* *26% Volatile on Ignition*
143-726-8 Red 9x9 floor tile with white streaks (on black mastic) / 5-Girl's Building-Room G7	*Not Analyzed*
143-726-9 Red 9x9 floor tile with white streaks (on black mastic) / 6-Girl's Building-Room G7	*Not Analyzed*
143-726-10 Black mastic (from under sample #4) / 4-Girl's Building-Room G7	*14% Chrysotile Asbestos* *22% Non- Fibrous Particles* *64% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 1/4/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
143-726-29 Brown mastic (from under sample #26) / 17-Administration Building-Dining Room	*No Asbestos Detected* *19% Non- Fibrous Particles* *81% Volatile on Ignition*
143-726-30 Brown mastic (from under sample #27) / 18-Administration Building-Dining Room	*No Asbestos Detected* *17% Non- Fibrous Particles* *83% Volatile on Ignition*
143-726-31 White crumbly adhesive (on fiberglass breeching) / 19-Administration Building-Boiler Room	*No Asbestos Detected* *42% Non- Fibrous Particles* *18% Fiberglass* *40% Volatile on Ignition*
143-726-32 White crumbly adhesive (on fiberglass breeching) / 20-Administration Building-Boiler Room	*No Asbestos Detected* *43% Non- Fibrous Particles* *18% Fiberglass* *39% Volatile on Ignition*
143-726-33 White crumbly adhesive (on fiberglass breeching) / 21-Administration Building-Boiler Room	*No Asbestos Detected* *43% Non- Fibrous Particles* *19% Fiberglass* *38% Volatile on Ignition*
143-726-34 Light gray crumbly 1x1 ceiling tile with a grooved pattern (on brown hard glue dab) / 22-Administration Building-Dining Room	*No Asbestos Detected* *9% Non- Fibrous Particles* *77% Mineral Wool* *14% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 1/4/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
143-726-35 Light gray crumbly 1x1 ceiling tile with a grooved pattern (on brown hard glue dab) / 23-Administration Building-Dining Room	*No Asbestos Detected* *9% Non- Fibrous Particles* *78% Mineral Wool* *13% Volatile on Ignition*
143-726-36 Light gray crumbly 1x1 ceiling tile with a grooved pattern (on brown hard glue dab) / 24-Administration Building-Dining Room	*No Asbestos Detected* *9% Non- Fibrous Particles* *78% Mineral Wool* *13% Volatile on Ignition*
143-726-37 Brown hard glue dab (from under sample #34) / 22-Administration Building-Dining Room	*<1% Chrysotile Asbestos* *54% Non- Fibrous Particles* *46% Volatile on Ignition*
143-726-38 Brown hard glue dab (from under sample #35) / 23-Administration Building-Dining Room	*<1% Chrysotile Asbestos* *50% Non- Fibrous Particles* *50% Volatile on Ignition*
143-726-39 Brown hard glue dab (from under sample #36) / 24-Administration Building-Dining Room	*<1% Chrysotile Asbestos* *50% Non- Fibrous Particles* *50% Volatile on Ignition*
143-726-40 Beige granular plaster (ceiling) / 25-Administration Building-Dining Room	*4% Chrysotile Asbestos* *81% Non- Fibrous Particles* *15% Wollastonite*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 1/4/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	**Findings**
143-726-41 Black 12x12 floor tile (on tan and black mastic) / 26-Administration Building-Dining Room	*No Asbestos Detected* *85% Non- Fibrous Particles* *15% Volatile on Ignition*
143-726-42 Black 12x12 floor tile (on tan and black mastic) / 27-Administration Building-Dining Room	*No Asbestos Detected* *81% Non- Fibrous Particles* *19% Volatile on Ignition*
143-726-43 Black 12x12 floor tile (on tan and black mastic) / 28-Administration Building-Dining Room	*No Asbestos Detected* *80% Non- Fibrous Particles* *20% Volatile on Ignition*
143-726-44 Tan and black mastic (from under sample #41) / 26-Administration Building-Dining Room	*<1% Chrysotile Asbestos* *70% Non- Fibrous Particles* *30% Volatile on Ignition*
143-726-45 Tan and black mastic (from under sample #42) / 27-Administration Building-Dining Room	*<1% Chrysotile Asbestos* *57% Non- Fibrous Particles* *43% Volatile on Ignition*
143-726-46 Tan and black mastic (from under sample #43) / 28-Administration Building-Dining Room	*<1% Chrysotile Asbestos* *37% Non- Fibrous Particles* *63% Volatile on Ignition*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 1/4/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings
143-726-47 Tan 9x9 floor tile (on black mastic) / 29-Administration Building-Basement Maintenance Shop	*1-2% Chrysotile Asbestos* *74% Non- Fibrous Particles* *24% Volatile on Ignition*
143-726-48 Tan 9x9 floor tile (on black mastic) / 30-Administration Building-Basement Maintenance Shop	*Not Analyzed*
143-726-49 Black mastic (from under sample #47) / 29-Administration Building-Basement Maintenance Shop	*10% Chrysotile Asbestos* *13% Non- Fibrous Particles* *77% Volatile on Ignition*
143-726-50 Black mastic (from under sample #48) / 30-Administration Building-Basement Maintenance Shop	*Not Analyzed*

Bulk sample(s) from Mystic Education Center, Mystic CT received from customer on 1/4/01

Asbestos Identification in the samples. Examination made by Polarized Light Microscopy (PLM) per EPA Test Method 600/R-93/116

Sample Identification	Findings

AIHA Bulk Asbestos Proficiency Analytical Testing (PAT) Program. PAT Proficient Lab #100134
Accreditation by the National Institute of Standards and Technology/National Voluntary Lab Accreditation Program (NVLAP) does not imply endorsement by this Federal Agency.
This report pertains only to the samples tested and may not be reproduced in part.
The scope of Accreditation referenced in this report pertains to bulk asbestos analysis by PLM.
Connecticut Approved Environmental Lab PH 0581
See test parameters on reverse side of this report.

Signature (if applicable)	Signature (if applicable)	*Authorized Signature:*	or *Authorized Signature:*
Analyst	Inspector	*Ronald D. Arena* *Director*	*Suzanne Cristante* *QA Coordinator*

NVLAP ACCREDITED LAB# 101061-0

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
1	Tan 9" Floor Tile						Asbestos PLM EPA 600 Admin Bldg A 151	Please Analyze Both Tile & Mastic				
2								Admin Bldg A 151				
3												
4	Red-Orange Color 9" Floor Tile							Girls' Building Room G7				
5												
6												
7	2x4 Suspended Ceiling Tile Type 2							Girls' Building Room G7				
8								Girls' Building Room G8				
9								Girls' Building Room G13				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melnotte	Delta			1	1-9	James R Melnotte	G. Patterson	1-4-01	
				2					
				3					
				4					

ADDITIONAL COMMENTS: Please use positive stop - Analyze at least one sample of each tile even if mastic is positive

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
10	Green 9" Floor Tile						Asbestos PLM EPA 600	Girls' Building Room 68				
11	↓							↓				
12	↓							↓				
13	Base molding Adhesive							Girls' Building Room 67				
14	↓							↓				
15	↓							↓				
16	Black 12" Floor Tile							Admin. Bldg Dining Room				
17	↓							↓				
18	↓							↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthin	Delta			1	10-18	James R Melanthin	G. Patucelli	1-4-01	
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify ___, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
19	Adhesive on Fiberglass Breeching						Asbestos PLM EPA 600	Admin Bldg. Boiler Room				
20	↓							↓				
21	↓							↓				
22	1'x1' Ceiling Tile - Grooved Pattern							Admin Bldg. Dining Room				
23	↓							↓				
24	↓							↓				
25	Plaster Ceiling							↓				
26	Black 12" Floor Tile with White Streaks							↓				
27	↓							↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify ___

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthia	Delta			1	19-27	James R Melanthia	[signature]	1-4-01	
ADDITIONAL COMMENTS:				2					
				3					
				4					

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: V97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
28	Black 12" Floor Tile with white streaks						Asbestos PLM EPA 600	Admin Bldg Dining Room				
29	Tan 9" Floor Tile							Admin Bldg Basement Maintenance Shop				
30	↓							↓				

Container Codes: P = Plastic E = EPA VIAL G = Glass A = Amber Glass B = Bacteria Bottle
Preservative Codes: I = Iced F = Filtered N = Nitric Acid (HNO_3) H = Hydrochloric Acid (HCl) S= Sodium Hydroxide (NaOH) T = Sodium Thiosulfate F = Sulfuric Acid
O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthi	Delta			1	28-30	James R Melanthi	G. Palucelli	1-4-01	
ADDITIONAL COMMENTS:				2					
				3					
				4					

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 01/31/2001
Project: Mystic; Admin. Bldg.
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1217327 **Material Description:** Tan Ceiling Tile
Client No.: 169 **Location:** 1st Floor Conference Room A-134

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	25
		35	Fibrous Glass	

Lab No. 1217328 **Material Description:** Tan Ceiling Tile
Client No.: 170 **Location:** 1st Floor Conference Room A-134

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	25
		35	Fibrous Glass	

Lab No. 1217329 **Material Description:** Tan Ceiling Tile
Client No.: 171 **Location:** 1st Floor Conference Room A-134

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	25
		35	Fibrous Glass	

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Graciela Manjarres N.

Date: JAN 31 2001 Graciela Manjarres N., AIHA-AAP 1209

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

DELTA Environmental Services,® Inc.

4/2/8 (TV)

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT Admin. Bldg.

PROJECT NUMBER: V97-14E-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
169	2x4 suspended Ceiling Tile				12	17327	Asbestos PLM EPA 600 positive stop	First Floor Conference Room A-134				
170	↓				12	17328	↓	↓				
171	↓				12	17329	↓	↓				

Container Codes: P = Plastic E = EPA VIAL G = Glass A = Amber Glass B = Bacteria Bottle
Preservative Codes: I = Iced F = Filtered N = Nitric Acid (HNO_3) H = Hydrochloric Acid (HCl) S= Sodium Hydroxide (NaOH) T = Sodium Thiosulfate F = Sulfuric Acid
O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James R Melanthe	Delta			1		James R Melanthe			
				2					
				3					
				4		Graciela Campanis - Diaz		1/31/2001	

ADDITIONAL COMMENTS: LOS 1/30 1840 JAN 2[illegible]

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEducationCenter;ETC,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248473 **Material Description:** Grey Floor Tile; 12"
Client No.: 1 **Location:** Yellow Mastic GroundFloor; Men'sRm

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1248473 **Material Description:** Grey Floor Tile; 12"
Client No.: 1 **Location:** Yellow Mastic GroundFloor; Men'sRm

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Yellow Mastic				
From Above				

Lab No. 1248474 **Material Description:** Grey Floor Tile; 12"
Client No.: 2 **Location:** Yellow Mastic GroundFloor; Men'sRm

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1248474 **Material Description:** Grey Floor Tile; 12"
Client No.: 2 **Location:** Yellow Mastic GroundFloor; Men'sRm

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Yellow Mastic				
From Above				

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Thom Snyder

Date:

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEducationCenter;ETC,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248475 **Material Description:** Grey Floor Tile; 12"
Client No.: 3 **Location:** Yellow/BlkMix.Mastic GroundFloor; Men'sRm

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1248475 **Material Description:** Grey Floor Tile; 12"
Client No.: 3 **Location:** Yellow/BlkMix.Mastic GroundFloor; Men'sRm

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Yellow/BlkMix.Mastic
From Above

Lab No. 1248476 **Material Description:** White Plaster
Client No.: 4 **Location:** Wall; Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1248477 **Material Description:** White Plaster
Client No.: 5 **Location:** Wall; Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Thom Snyder

Date: Mar 3 . 2001

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEducationCenter;ETC,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248478 **Material Description:** White Plaster
Client No.: 6 **Location:** White Joint Compound Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1248478 **Material Description:** White Plaster
Client No.: 6 **Location:** White Joint Compound Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

White Joint Compound
From Above

Lab No. 1248479 **Material Description:** Grey Cement
Client No.: 7 **Location:** Wall; Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1248480 **Material Description:** Grey Cement
Client No.: 8 **Location:** Wall; Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Thom Snyder

Date: MAR 3 1 2001

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEducationCenter;ETC,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248481 **Material Description:** Grey Cement
Client No.: 9 **Location:** Wall; Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1248482 **Material Description:** Tan/WhiteCeilingTile
Client No.: 10 **Location:** 2x2; Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	25
		35	Mineral Wool	

Lab No. 1248483 **Material Description:** Tan/WhiteCeilingTile
Client No.: 11 **Location:** 2x2; Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	25
		35	Mineral Wool	

Lab No. 1248484 **Material Description:** Tan/WhiteCeilingTile
Client No.: 12 **Location:** 2x2; Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	40	Cellulose	25
		35	Mineral Wool	

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Thom Snyder

Date: MAR 31 2001

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEducationCenter;ETC,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248485 **Material Description:** White Joint Compound
Client No.: 13 **Location:** Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
No Sheetrock				

Lab No. 1248486 **Material Description:** White Joint Compound
Client No.: 14 **Location:** Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
No Sheetrock				

Lab No. 1248487 **Material Description:** White Joint Compound
Client No.: 15 **Location:** Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
No Sheetrock				

Lab No. 1248488 **Material Description:** Brown/WhiteSheetrock
Client No.: 16 **Location:** Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	80	Cellulose	20
No Joint Compound		Trace	Mineral Wool	

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Thom Snyder

Date: MAR 3 .. 2001

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEducationCenter;ETC,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248489 **Material Description:** Brown/WhiteSheetrock
Client No.: 17 **Location:** Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	75	Cellulose	25
No Joint Compound		Trace	Mineral Wool	

Lab No. 1248490 **Material Description:** Brown/WhiteSheetrock
Client No.: 18 **Location:** Ground Floor Air Handler Room

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	90	Cellulose	10
No Joint Compound		Trace	Mineral Wool	

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

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Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Thom Snyder

Date: MAR 3 1 2001

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center - ETC

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED		COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
1	Grey 12" Floor Tile						Asbestos PLM EPA 600 1248473	positive stop	Ground Floor Men's Room				
2							1248474						
3							1248475						
4	Wall plaster Top Coat						1248476	positive stop	Ground Floor Air Handler Room				
5							1248477						
6							1248478						
7	Wall plaster Brown Coat						1248479	positive stop					
8							1248480						
9							1248481						

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME
James R. McArthur	Delta	3/26/01	2:00 PM

ADDITIONAL COMMENTS:

TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
1	1-9	James R. McArthur			
2					
3					
4					

0024F

DELTA Environmental Services, Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
10	2x2 Ceiling Tile						1248482 Positive Stop	Ground Floor Air Handler Room				
11	↓						1248483	↓				
12	↓						1248484 ↓	↓				
13	Joint Compound						1248485 Positive Stop					
14	↓						1248486					
15	↓						1248487 ↓					
16	Sheetrock						1248488 Positive Stop					
17	↓						1248489					
18	↓						1248490 ↓	↓				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME	TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
James P. McIntosh	Delta	3/26/01	2:00 PM	1		James P. McIntosh			
ADDITIONAL COMMENTS:				2					
				3					
				4					

0024F

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEduCtr;WhippleBldg,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248505 **Material Description:** Grey Floor Tile; 9"
Client No.: 55 **Location:** Room 201 Connecting Passage

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.50	Chrysotile	None Detected	None Detected	PC 98.50

Lab No. 1248506 **Material Description:** Black Mastic
Client No.: 56 **Location:** A/W9"Tile; Room 201 Connecting Passage

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Lab No. 1248507 **Material Description:** Tan Floor Tile; 9"
Client No.: 57 **Location:** Room 240

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 3.0	Chrysotile	None Detected	None Detected	97
No Mastic				

Lab No. 1248508 **Material Description:** Sample Not Analyzed
Client No.: 58 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Thom Snyder

Date: MAR 2 1 ...

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEduCtr;WhippleBldg,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248509 **Material Description:** Sample Not Analyzed
Client No.: 59 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1248510 **Material Description:** White Floor Tile; 9"
Client No.: 60 **Location:** Ground Floor Landing Stairwell 2

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 2.50	Chrysotile	None Detected	None Detected	PC 97.50
No Mastic				

Lab No. 1248511 **Material Description:** Sample Not Analyzed
Client No.: 61 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

Lab No. 1248512 **Material Description:** Sample Not Analyzed
Client No.: 62 **Location:**

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
Sample Not Analyzed		Sample Not Analyzed		

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Thom Snyder

Date: MAR

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

IATL International Asbestos Testing Laboratories

16000 Horizon Way Unit 100 Mt. Laurel, NJ 08054

Telephone: 856-231-9449 Fax: 856-231-9818

CERTIFICATE OF ANALYSIS

Client: Delta Environmental Services
PO Box 564
Branford CT 06405

Report Date: 03/31/2001
Project: MysticEduCtr;WhippleBldg,3-26-01
Project No.: D97-148-24

BULK SAMPLE ANALYSIS SUMMARY

Lab No. 1248513 **Material Description:** White Floor Tile; 9"
Client No.: 63 **Location:** 2nd Floor Landing Stairwell 1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 1.50	Chrysotile	None Detected	None Detected	PC 98.50
No Mastic				

Lab No. 1248514 **Material Description:** Black Mastic
Client No.: 64 **Location:** 2nd Floor Landing A/W9"Tile;Stairwell1

% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
10	Chrysotile	None Detected	None Detected	90

NIST-NVLAP No. 1165 **NY-DOH No. 11021** **AIHA Lab No. 444**

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP or any agency of the U.S. government.

Analysis Method: EPA 600/R-93/116

Comments: (PC) Indicates Stratified Point Count Method performed. Method not performed unless stated. PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation must be made by quantitative TEM.

Analysis Performed By: Thom Snyder

Date: MAR

Approved By: Frank Ehrenfeld

Frank E. Ehrenfeld, III
Laboratory Director

ATI International Asbestos Testing Laboratories
16000 Horizon Way Unit 100 Mt. Laurel, NJ 08051
Telephone: 609.231.9449 Fax: 609.231.9818

972/9

- Chain of Custody -

Client: Delta Environmental Services
P.O. Box 564
Branford, CT 06405

Project Name: Mystic Education Center
Project No.: Mystic, CT
D97-148-24

Phone: (203) 481-7668
FAX: (203) 488-8164

Contact: Jim McCarthy
Pager:

Special Instructions:

Type:

Asbestos		Lead		Other
[ ] Air	[ ] Soil	[ ] Air	[ ] Soil	
[✓] Bulk	[ ] Dust	[ ] Bulk	[ ] Paint	
[ ] Water	[ ] Other	[ ] Water	[ ] Other	

Analysis Method:

[ ] PCM : NIOSH 7400	[✓] PLM : Bulk Asbestos EPA 600	[ ] TEM : AHERA
[ ] PCM : OSHA	[ ] PLM : Point Counting 198.1	[ ] TEM : NIOSH 7402
[ ] PCM : Other_____	[ ] PLM : NOB via 198.1 (PLM only)	[ ] TEM : EPA Level II
	[ ] If <1% by PLM, to TEM via 198.4	[ ] TEM : Microvac Dust
[ ] AAS : NIOSH 7082 (Air)	to meet NYSDOH requirements **	[ ] TEM : Asbestos in Water
[ ] AAS : Lead in Drinking Water	(**call to confirm TAT!)	[ ] TEM : Bulk Analysis
[ ] AAS : Lead in Paint ASTM D3335-85a		[ ] TEM : NOB 198.4
[ ] AAS : Lead Dust/Wipe		[ ] TEM : Other_____
[ ] AAS : Other Metals / Soil_____		[ ] Total Dust : NIOSH 0500

Turnaround Time:

FAX: _____ (date / time) Verbals: _____ (date / time)

[ ] 10 Day [ ] 5 Day [ ] 72 hour [✓] 48 hour [ ] 24 hour [ ] 6 hour [ ] RUSH

Preliminary FAX/Verbal Results Requested by: _____

Sample Numbers:

Client #(s): _____ (start) - _____ (end)

IATL#(s): _____ (start) - _____ (end) Total: ___

~42

Chain of Custody:

Relinquished:	James R McCarthy	Date: 3/27/01	Time: 12:00 pm
Received:		Date:	Time:
Sample Log-in:	CO3/28/2150	Date:	Time:
Sample Prep:		Date:	Time:
Analyzed:		Date: 3/31/01	Time:
QA/QC Review:		Date: 04/04/01	Time:

MAR 29

Archived/Released: _____ QA/QC InterLAB Use: _____ Date: _____ Time: _____

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Whipple Building Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, SG = Sludge, X = Other; Specify, O = Outfall, S = Soil, WO = Waste Oil, R = River/Stream, RO = Run Off, LF = Landfill, B = Bottom Sediment, WW = Wastewater, SW = Sewage, L = Lake/Ocean

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
55	9" Tan Dot Pattern Floor Tile					1248505		Room 201 Connecting Passage				
56	Mastic From Above					1248506		↓				
57	9" Brown Floor Tile					1248507	positive stop	Room 240				
58	9" Brown Floor Tile					1248508	↓	Room 240				
59	9" Brown Floor Tile					1248509		Room 233				
60	9" White Dot Pattern Floor Tile					1248510	positive stop	Ground Floor Landing - Stairwell 2				
61	↓					1248511	↓	↓				
62	↓					1248512	↓	↓				
63	9" White Floor Tile with Brown Specks					1248513		Second Floor Landing Stairwell 1				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME
James R Melanthy	Delta	3/26/01	2:00 pm

TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
1	1-9	James R Melanthy			
2					
3					
4					

ADDITIONAL COMMENTS:

0024F

DELTA Environmental Services,® Inc.

81 Schoolground Road • P.O. Box 564 • Branford, Connecticut 06405 (203) 481-7668

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Mystic Education Center

PROJECT LOCATION: Whipple Building Mystic, CT

PROJECT NUMBER: D97-148-24

SOURCE CODES: W = Well, O = Outfall, WO = Waste Oil, RO = Run Off, B = Bottom Sediment, SW = Sewage, SG = Sludge, S = Soil, R = River/Stream, LF = Landfill, WW = Wastewater, L = Lake/Ocean, X = Other; Specify

ITEM NO.	SAMPLE I.D.	SOURCE CODE	CONTAINER NO.	CONTAINER TYPE	CONTAINER SIZE	CONTAINER PRESERVE	ANALYSIS REQUIRED	COMMENTS	TNSFR NUMBER AND CHECK 1	2	3	4
64	9" white floor tile mastic				1248514			second floor landing stairwell 1				

Container Codes: P = Plastic, E = EPA VIAL, G = Glass, A = Amber Glass, B = Bacteria Bottle

Preservative Codes: I = Iced, F = Filtered, N = Nitric Acid (HNO_3), H = Hydrochloric Acid (HCl), S= Sodium Hydroxide (NaOH), T = Sodium Thiosulfate, F = Sulfuric Acid, O = Other; Specify

SAMPLER'S SIGNATURE	AFFILIATION	DATE	TIME
James R Melnotte	Delta	3/26/01	2:00 pm

ADDITIONAL COMMENTS:

TRNSF NO.	ITEM NO.	TRANSFERS RELINQUISHED BY	ACCEPTED BY	DATE	TIME
1	10	James R Melnotte			
2					
3					
4					

0024F

APPENDIX C

Laboratory and Inspector Accreditations

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT - INSP/MGMT PLANNER

LICENSE NO.
000044
CURRENT THROUGH
02/28/01
VALIDATION NO.
00-321886

JAMES P. MCCARTHY

James P. McCarthy
SIGNATURE

COMMISSIONER, DEPT. OF PUBLIC HEALTH

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

CHEMSCOPE, INC.

NORTH HAVEN, CT

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

BULK ASBESTOS FIBER ANALYSIS

March 31, 2002
Effective through

David F. Alderman
For the National Institute of Standards and Technology

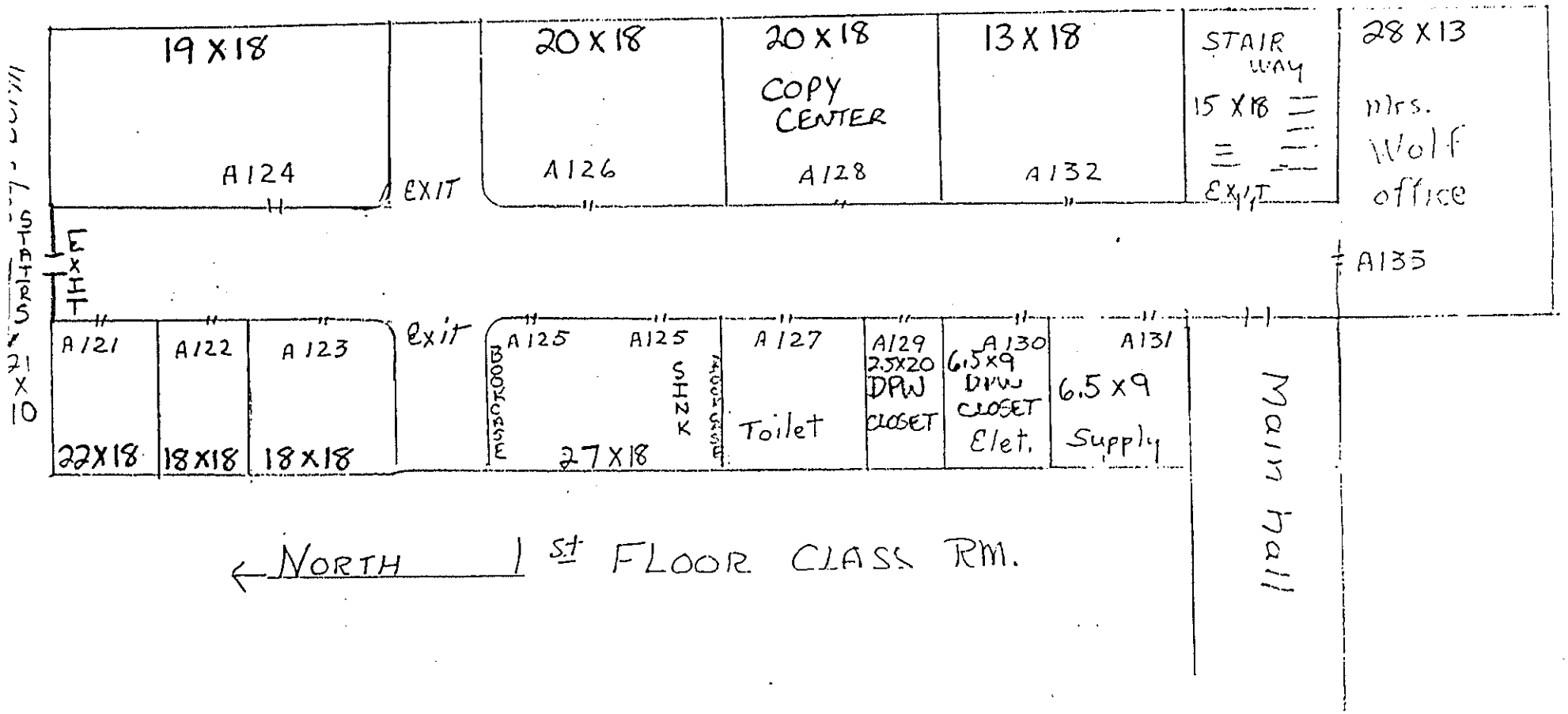
NVLAP Lab Code: 101061-0

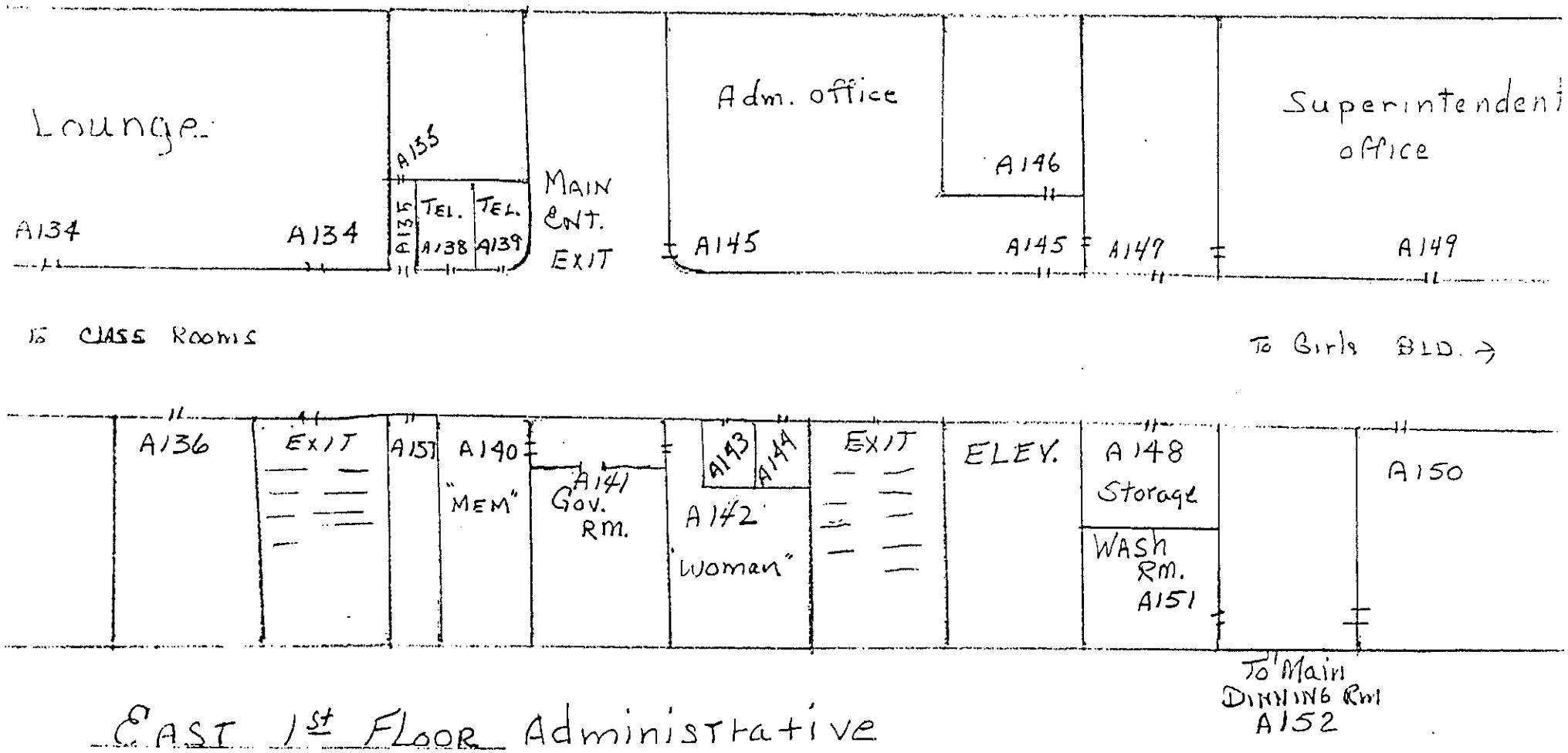
NVLAP-01C (11-95)

APPENDIX D

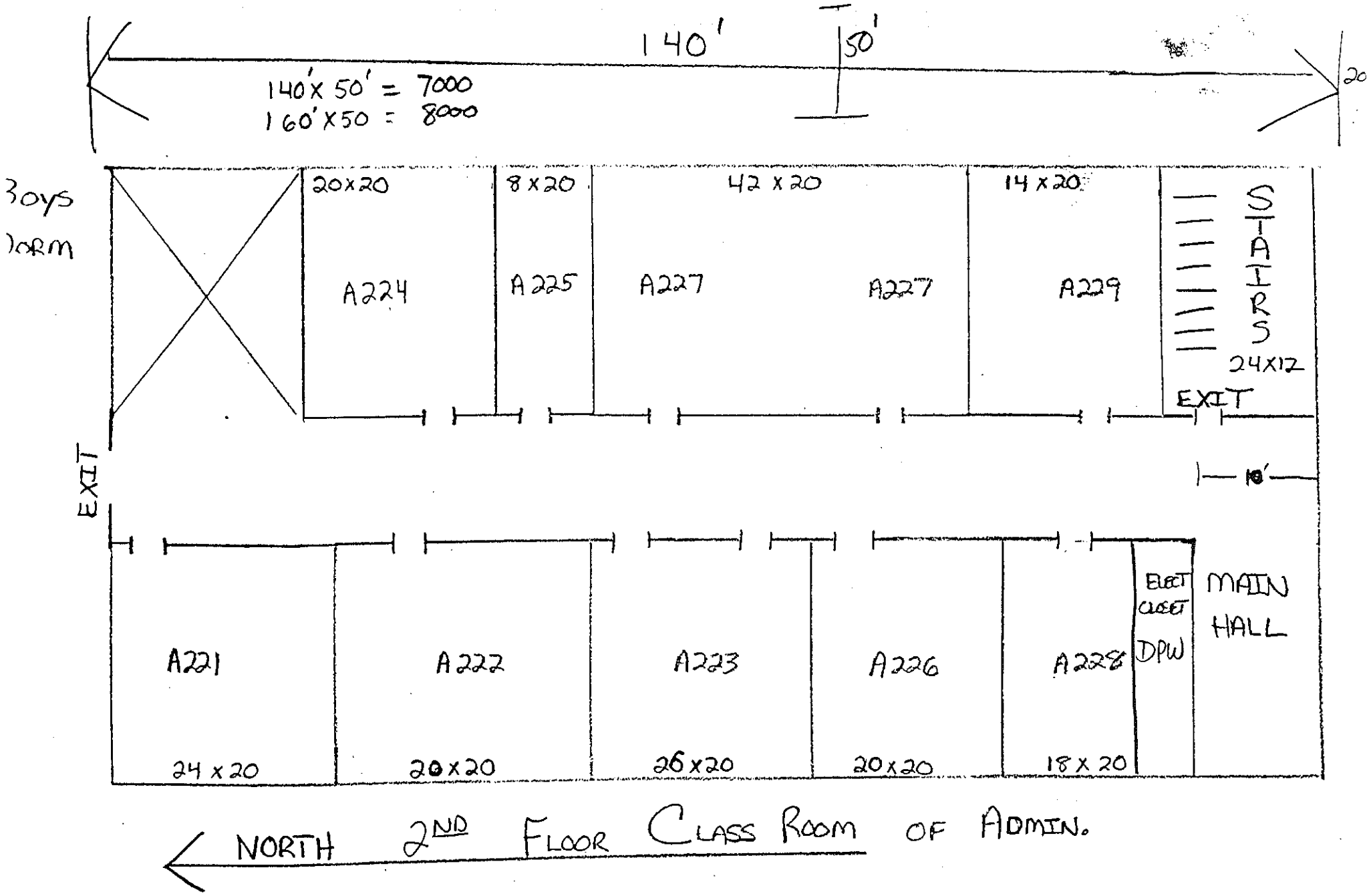
Building Diagrams

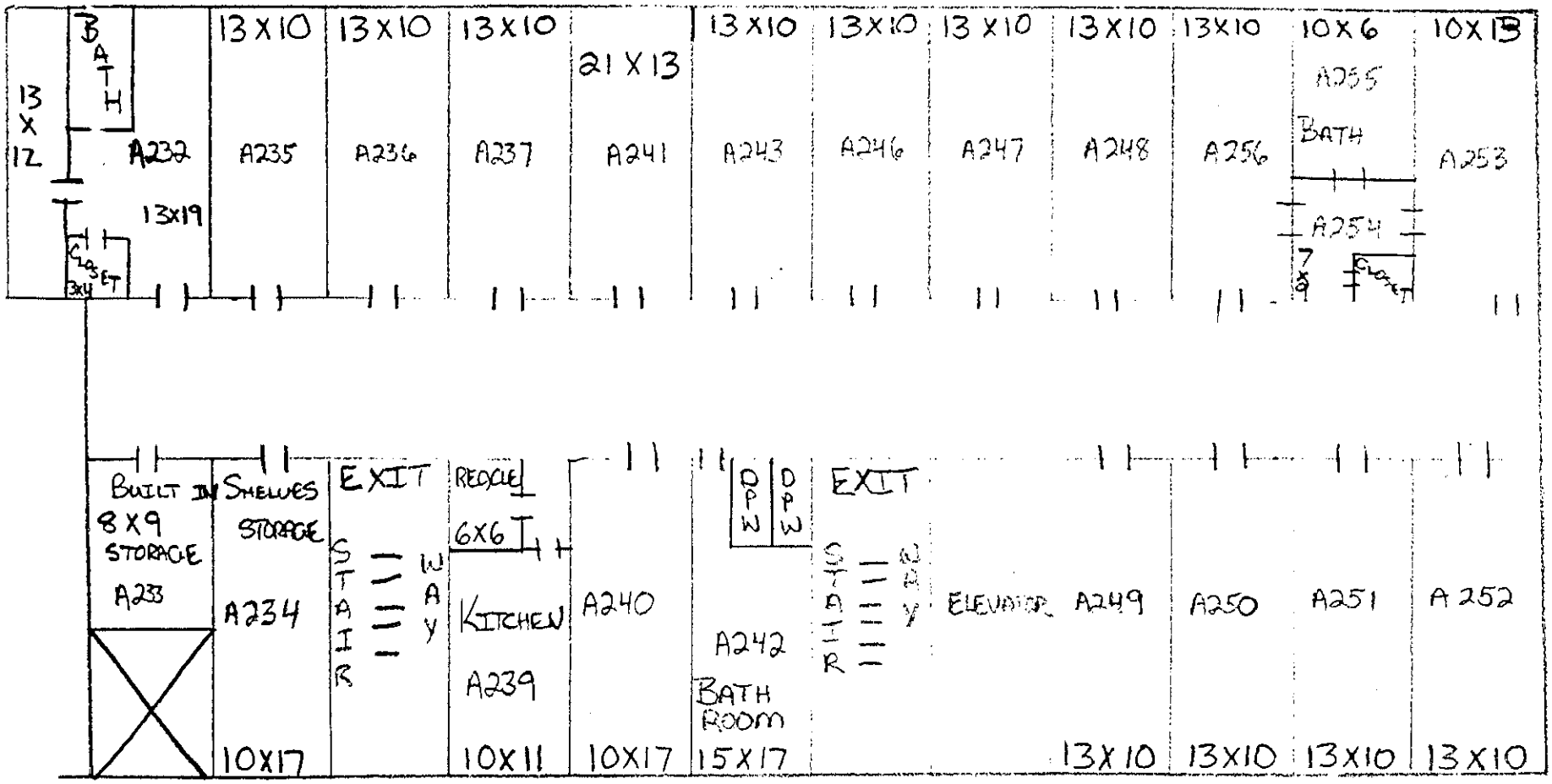
160 X 50 = 8000 SQ FT.





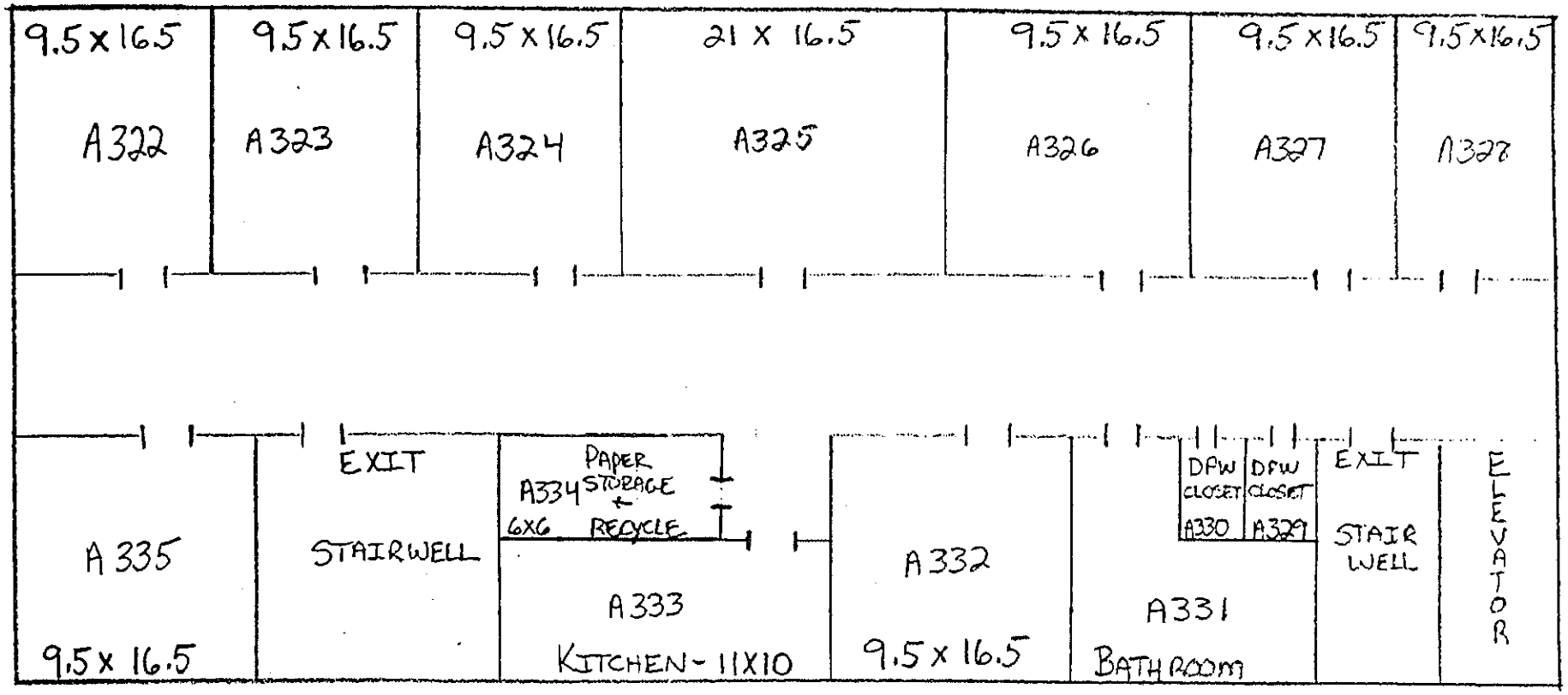
EAST 1st FLOOR Administrative


140'
50'
20
140'x 50' = 7000
160'x50 = 8000
Boys
Dorm
20x20
8x20
42 x 20
14 x 20
A224
A225
A227
A227
A229
STAIRS
24x12
EXIT
EXIT
10'
A221
A222
A223
A226
A228
ELECT
CLOSET
DPW
MAIN
HALL
24 x 20
20x20
26x20
20x20
18 x 20
NORTH
2ND FLOOR CLASS ROOM OF ADMIN.



EAST 2ND FLOOR BEDROOM OF ADMIN. BLDG.

80 X 50 = 4000 SQ FT.



← EAST 3RD FLOOR BEDROOMS OF ADMIN. BLDG.

TRC

REPORT

COMPLIANCE REPORT FOR THE ABATEMENT OF ASBESTOS CONTAINING MATERIALS MYSTIC EDUCATION CENTER – ADMINISTRATION BUILDING GROTON, CONNECTICUT

Project No. RM-06-06
DPW No. 16945

Prepared for

State of Connecticut
Department of Public Works
Hartford, Connecticut

Prepared by

TRC Environmental Corporation
Windsor, Connecticut

December 13, 2006

TRC

COMPLIANCE REPORT FOR THE ABATEMENT OF ASBESTOS CONTAINING MATERIALS MYSTIC EDUCATION CENTER – ADMINISTRATION BUILDING GROTON, CONNECTICUT

Project No. RM-06-06
DPW No. 16945

Prepared for
State of Connecticut Department of Public Works
Hartford, Connecticut

Prepared by
TRC Environmental Corporation
Windsor, Connecticut

Donald LePage
Project Manager

TRC Project No. 43500-5060-00003
December 13, 2006

TRC Environmental Corporation
21 Griffin Road North
Windsor, Connecticut 06095
Telephone 860-298-9692
Facsimile 860-298-6399

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1.0 EXECUTIVE SUMMARY

TRC Environmental Corporation (TRC) of Windsor, Connecticut was retained by the State of Connecticut Department of Public Works (CTDPW) to provide project compliance and industrial hygiene services during the abatement of asbestos containing materials (ACM) conducted at the Mystic Education Center – Administration Building, 240 Oral School Road, Groton, Connecticut. TRC conducted this work per DAS Contract 03PSX0346AE which is effective from May 7, 2004 to September 30, 2008. Asbestos abatement was necessitated in accordance with the U.S. Environmental Protection Agency (USEPA) Asbestos National Emission Standard for Hazardous Air Pollutants (NESHAP) (40 CFR Part 61 Subpart M) as the building structure was scheduled for future renovation. The asbestos abatement contractor for the project was Petco Insulation Company, Inc. (Petco) of West Haven, Connecticut utilizing DAS Contract #03PSX0374AC. TRC was on site throughout the duration of the project to provide monitoring services.

The scope of work for the project, which took place from October 25 through November 3, 2006, involved the abatement of approximately 100 square feet (SF) of asbestos containing plaster/skim coat from the walls of the dining area, approximately 512 SF of asbestos containing floor tile/mastic from the Alion porch and storage area near the dining area, and the cleanup of asbestos containing debris in the crawlspace. Written notification of the abatement activity was filed with the Connecticut Department of Public Health (CT DPH) by Petco ten days prior to the initiation of the abatement work. A copy of the notification was submitted by Petco to TRC. All work conducted by Petco was performed in compliance with OSHA's Occupational Exposure to Asbestos Standard, 29 CFR 1926.1101, the CT DPH Standards for Asbestos Abatement, 19a-332a-1 through 16, and the EPA's Asbestos National Emission Standard for Hazardous Air Pollutants (NESHAP) 40 CFR Part 61 Subpart M. Petco is a licensed State of Connecticut Asbestos Abatement Contractor and all Petco employees performing work on this project were appropriately licensed, trained, and medically qualified to perform such work. Interior work on ACM floor tile/mastic was performed following a pre-approved CTDPH blanket Alternative Work Practice (AWP) with a negative pressure enclosure

(NPE) consisting of critical barriers, a single layer of 6-mil poly and contiguous decontamination system (AWP Scenario #2). Interior work on ACM plaster and skim coat was performed under full containment conditions with a negative pressure enclosure (NPE) and contiguous decontamination system. ACM debris cleanup was performed as a maintenance activity utilizing the dip lag technique to repair pipe insulation that was not intact.

On November 1, 2006, bulk samples of suspected asbestos containing materials (ACM) in the form of plaster and skim coat were taken by a State of Connecticut licensed asbestos inspector. The samples were analyzed by Polarized Light Microscopy in TRC's laboratory and found to be negative.

Air samples were collected during abatement activities to monitor airborne asbestos fiber emissions and were transferred using proper chain-of-custody records to TRC's Accredited Laboratory in Windsor, Connecticut and analyzed on-site by an AIHA Registered Asbestos Analyst from TRC for Phase Contrast Microscopy (PCM) analysis via the National Institute for Occupational Safety and Health (NIOSH) 7400 method. PCM analysis revealed that all airborne asbestos emissions outside of regulated areas were below the OSHA Permissible Exposure Level (PEL). PCM airborne fiber emissions inside the regulated area may have at times exceeded the OSHA PEL; however, the workers were in appropriate respiratory protection for such exposure levels.

After abatement activities, the work areas were visually inspected by a TRC licensed Asbestos Project Monitor following ASTM Standard E1368-90 to ensure complete abatement. Further, reoccupancy asbestos clearance air sampling was conducted by TRC in the interior NPE work areas. The interior NPE reoccupancy clearance air samples were collected and analyzed on-site by an AIHA registered Asbestos Analyst from TRC using PCM analysis via the NIOSH 7400 method. The interior NPE work areas received satisfactory visual inspections on October 30, November 1 and November 3, had reoccupancy clearance air samples collected on October 30, November 1 and November 3, and received acceptable reoccupancy clearance criteria air results on October 30,

November 1 and November 3, 2006. The crawlspace cleanup work area received a satisfactory visual inspection on October 26, 2006 and was deregulated.

The asbestos-containing waste generated during this project was containerized and labeled as asbestos waste in compliance with CTDEP/ CTDPH, OSHA, DOT and USEPA requirements. The waste was removed from the site in accordance with all state and federal disposal requirements, including the USEPA Asbestos NESHAP, and transported by TransWaste, Inc. of Cheshire, Connecticut to Modern Landfill of York, Pennsylvania where it was deposited. Approximately seven (6.75) cubic yards of asbestos waste were removed from the project site.

This concluded TRC's on-site efforts for this project. Refer to Section 2.0 for TRC's complete site log notes documenting all aspects of the project on a daily basis.

2.0 SITE LOGS

TRC

SITE LOG

Page 1

Site / Station CTDPW-Mystic Education-admin. Bldg 240 Oral School Road, Mystic, CT

Month / Year 10/06

Project No 43500-5060-00023

Date	Time	Instrument and TRC ID	Comments	Initials
10/25/06	0715		WE on-site.	WE
	0820		Petco on-site. There is one	
			supervisor and two workers on site.	
			Petco unloads truck.	WE
	0925		Break	
	1000		WE deploy air samples in	
			crawl space and outside the	WE
			area where the crawl space	
			is located.	
	1100		Petco goes into crawl space to	WE
			start picking up asbestos debris.	
			Petco ~~will~~ only has two days to	
			do this.	WE
	1150		Lunch	
	1220		Petco goes back in the crawl	
			space to continue removing the	WE
			asbestos in the soil.	
	1320		Petco wraps up. Petco needs	
			to bring truck back to warehouse.	WE
	1330		WE and Petco off-site.	
10/26/06	0700		WE and Petco on-site.	
	0710		Petco goes back into crawl	WE
			space to continue picking up	
			asbestos debris in the crawl	
			space.	WE
	0726		WE deploy air sampling pumps.	
	0900		Petco finishes picking up asbestos	
			debris on the dirt floor in the	WE
			Crawl space.	
	1000		Petco goes back into crawl	
			space and uses dip laggers	WE
			to the pipes where the pipe	
			insulation is not intact.	

TRC

SITE LOG

Page 2

Site / Station: CT DPW - Mystic Edu. Ctr. - Admin. Bldg. / ~~girls Bldg~~ we
240 Oral School Road, Mystic, CT

Month / Year: 10/06

Project No: 43500-5060-00003

Date	Time	Instrument and TRC ID	Comments	Initials
10/26/06	1/25		we does a visual inspection of	we
			the crawl space. all asbestos	
			has been picked up off the	
			dirt floor. Petco repaired	we
			damaged pipe cover with	
			dip rag on most of all the	
			pipes in the crawl space.	we
	1145		lunch - we also collects air	
			sampling pumps.	
	1243		Petco tears down. ~~what little~~	we
			~~was put up in the first~~	
		Admin. ~~girls~~ we ~~bldg~~ cafeteria	~~place.~~ we	
	1300		Petco bring supplies & equipment	we
			over to the ~~girls~~ Admin. building dining area.	
			Petco starts prepping the three	
			areas where the skim/plaster	we
			coats are falling off the walls	
			in the cafeteria. Petco is	
			making three tents which we	we
			has to do we ~~A~~ three sets of	
			clearances starting tomorrow.	
	1318		we deploys one air sampling	we
			during the prep.	
	1340		we sets up all air & personal	
			samples from 10/25 & 10/26.	we
	1436		Prepping continues on Tents 1 & 2.	
			Tomorrow tent #3 will be set-up.	
			We reads all samples from	we
			10/25 & 10/26/06.	
	1500		Petco starts cleaning up for the	
			day.	we
	1530		we and Petco off site.	

TRC

SITE LOG Page 3

Site / Station CT DPW - ~~Girl's Building~~ Mystic Educational Center Admin. Bldg. dining area 240 Oral School Road, Mystic, CT

Month / Year 10/06

Project No 43580-5060-00003

Date	Time	Instrument and TRC ID	Comments	Initials
10/27/06	0700		We and Petco on-site.	we
	0715		Petco continues prepping Tents	
			1, 2 & 3 in the ~~girl's~~ admin. building.	
			Petco should be ~~starting~~ able to start	we
			removing loose skim coat and	
			~~plaster~~ off the walls this	
			morning or sometime today.	we
	0900		Break (CP-97)	
	0930		Prepping continues in the	
		admin.	~~girl's~~ admin. building cafeteria.	we
	1145		Lunch	
	1230		Prepping continues	
	1500		Prepping completed for tents	we
			1, 2 & 3 in the ~~girl's~~ admin. building	
			cafeteria.	
	1530		We and Petco off site. Petco	we
			will start fixing the skim coat/plaster	
			on the walls on Monday 10/30/06.	
10/30/06	0700		We and Petco on-site. We do a visual insp. in tent #1	we
	0715		Petco starts removing the skim coat	visual passes
			and plaster in Tent #1. Petco	
			is repairing all areas in the	we
			girls building and using	
			CP-97 (CP-55A) to put over the skim	
			coat.	we
	~~0939~~	we 1130	We do a post abatement visual	
			inspection. Visual passes	
	~~0957~~	we 1145	We start PCM clearance	we
			samples in Tent #1.	
	1305		We collect PCM samples in	
			Tent #1.	we
	1340		We read all samples from	
			10/26/06 & 10/27/06. Clearances pass.	

TRC

SITE LOG Page 4

Site / Station: CT DPW - ~~Dirt's Bldg.~~ Admin. Bldg. & ~~Cafeteria~~ Dining Area
240 Oral School Road, Mystic, CT
Mystic Educational Center.

Month / Year: 10/06

Project No: 43500-5060-00003

Date	Time	Instrument and TRC ID	Comments	Initials
10/30/06	1400		Tents 2 & 3 are all set-up and ready to go.	WE
10/30/06	0730	cont'd	We does a pre-abatement visual inspection in Tent #3. Visual passes.	WE
	0733		We deploy air sampling pumps in Tent #3.	WE
	0735		Abatement Repair of wall starts.	
	0745		We does a pre-abatement visual inspection in Tent #2. Visual passes. We also deploy air sampling pumps in Tent #2. Abatement/Repair begins.	WE
	0955		We does a post abatement visual inspection in Tent #2. Visual passes. We starts PCM clearance samples.	WE
	1015		We collects PCM clearance samples from Tent #2.	WE
	1021		We starts PCM clearance samples in Tent #3.	WE
	1101		We reads all air pump and clearance samples. Clearances pass in Tent #2. We gives Petco the okay to tear down Tent #2. Once skimcoat/plaster has been repaired & removed Petco workers put CP-97 & CP-55A to keep skimcoat from falling off the walls.	WE
	1141		We collects PCM clearance samples in Tent #3.	WE

TRC

SITE LOG Page 5

Site / Station CTDPW – ~~Girls Bldg.~~ ~~Cafeteria~~ Admin. Bldg. re Dining Area
240 Oral School Road Mystic, CT
Mystic Educational Center

Month / Year 10/06
Project No 43500-5060-00013

Date	Time	Instrument and TRC ID	Comments	Initials
10/30/06	1200		Lunch	WE
	1243		Clearances pass in Tent #3	
			Petco is tearing down the	
			Containment.	WE
	1311		Petco brings over to the admin	
			building all their supplies &	
			equipment for the last phase	WE
			of the project. Tomorrow Petco will	
			be starting in the admin. bldg.	
			in the Allion porch which	WE
			has floor tile/mastic.	
	1500		Petco starts wrapping up for	
			the day. Petco did a great job	WE
			in the ~~girls~~ admin. building cafeteria.	
	1530		WE & Petco off site.	WE
10/31/06	0700	Admin. Bldg.	WE and Petco on-site.	
	0715	Allion Porch	Petco starts prepping the Allion	
			porch in the admin. building at	WE
			the Mystic Educational Center	
			WE deploy air sampling pump	
			during the prep.	WE
	1045		WE collects air sampling pump.	
	1050		WE does a pre abatement visual	
			inspection. Visual passes. WE deploy	WE
			air sampling during the rug & floor	
			tile removal. Abatement begins.	
	1200		Lunch	WE
	1235		Petco returns to containment to	
			continue working on removing the	
			rug/floor tile on the Allion porch Admin Bldg	WE
	1400		Rug and floor tile completed. There is a	
			very thin layer of mastic that will	WE
			be removed tomorrow.	
	1530		WE and Petco off-site.	WE

TRC

SITE LOG Page 6

Site / Station: Mystic Educational Center
CT DPW - Admin. Bldg., Allian Porch
240 Oral School Road, Mystic, CT

Month / Year: 11/06
Project No: 43500-5060-00003

Date	Time	Instrument and TRC ID	Comments	Initials
11-1-06	0700		WE and Petco on-site.	WE
	0728		WE deploy air sampling pumps	
			in the Admin. Bldg. of Allian Company.	
	0730		Petco takes tuffy, chemical and	WE
			materials in containment to start	
			removing the mastic.	
	0804		Mastic removal continues.	WE
			Bob Leach (site supervisor) tells us	
			that Petco will be doing another area	
			in the girl's building dining area.	WE
			The area was used for storage that	
			has black 9" x 9" black floor	
			tile which are popping up and	WE
			there are also loose pieces	
			along the floor. Two of the	
			maintenance guys will be taking	WE
			all the shelving and other items	
			out today and tomorrow Petco	
			will start prepping the area.	WE
			This is a two-day job. WE	
			will do post clearances on Friday	
			Nov. 3rd.	WE
	0830		WE does a post abatement visual	
			inspection. Visual passes.	
	0840-0842		WE collects air sampling pumps	WE
			and starts clearances in Allian	
			porch in Admin. Bldg.	
	0855		Dave LeRoux from the Dept. of Public	WE
			Works shows up on the site to see	
			how things are going. He tells Bob	
			myself that the area in the dining	WE
			room (storage area) has gotten approval	
			and will abatement on 11/2 & 11/3/06.	

TRC

SITE LOG Page 7

Site / Station: CT DPW - Admin. Bldg. - Alion Porch
240 Oral School Road, Mystic, CT
Mystic Educational Center

Month / Year: 11/06
Project No: 43500-5060-00003

Date	Time	Instrument and TRC ID	Comments	Initials
11-1-06	0930		Dave also tells Bob / LRC that there	LRC
			is another area in the admin.	
			bldg. where there is a leak that	
			needs to be fixed. Dave wants us	LRC
			to take some bulk samples and	
			to get results rather quickly. we	
			will drop samples off at the	LRC
			TRC lab today and try and get	
			results tomorrow. This area is in	
			the foyer near the men's and women's	LRC
			restrooms and a sitting area near	
			the foyer.	
	1115		LRC reads all background, work	LRC
			area and clearance samples	
			from Admin Bldg - Alion Porch.	
			Clearances pass. ~~Petco~~ LRC gives	LRC
			Petco the okay to teardown the	
			containment.	
	1150		Lunch	LRC
	1230		Petco will bring supplies & equipment	
			to Admin. Bldg. dining area where	
			there is a storage area that has	LRC
			9"x9" floor tile that is going to be	
			removed tomorrow.	
	1330		LRC goes back to the office to	LRC
			drop bulk samples and air	
			samples for QC to lab.	
	1530 LRC		Petco off-site	LRC
11-2-06	~~1530~~ LRC 0700		LRC & Petco on-site.	
	0715	storage area in dining area	Petco starts prepping the storage	
			area in the dining area.	LRC
	0740		LRC deploys air sampling pump	
			during the prep	LRC

TRC

SITE LOG Page 8

Site / Station: Mystic Educational Center, CT DPW-Storage Area in Dining Area, 240 Oral School Road, Mystic, CT, Admin. Bldg.

Month / Year: 11/06

Project No: 43500-5060-00003

Date	Time	Instrument and TRC ID	Comments	Initials
11-2-06	0956		Prepping in storage area continues. Petco should be ready very soon so we can do a pre abatement visual inspection.	WE
	1039		We does a pre-abatement visual inspection of the storage area. Visual passes.	WE
	1045		Abatement begins after lunch.	
	1145		Lunch	
	1230-1245		Abatement begins. We deploys air sampling pumps at 10:43.	WE
	1315		Tile is up off the floor. Petco is putting the tiles in bags.	WE
	1329		We collects air sampling pumps.	
	1342		All bags out of containment. There was a total of 19 bags.	WE
			Tomorrow Petco will tackle the mastic. There isn't too much on the floor.	WE
	1500		Petco wraps up for the day.	
	1530		We and Petco off site.	
11-3-06	0700		We and Petco on-site.	WE
	0725		We deploys air sampling pumps.	
	0735		Petco starts removing the mastic from the storage area.	
	0900		~~Break~~	WE
	0815		We reads all pressures, work area, and background samples from 11/2 & 11/3/06.	WE
	0930		Petco continues removing the mastic off the floor. Petco is having a very hard time getting it off the floor.	WE
	1020		We does a post abatement visual inspection. Visual passes.	WE

TRC

SITE LOG

Page 9

Site / Station: Mystic Educational Center
CT DPW - Storage Area in Dining Area
240 Oral School Rd., Mystic, CT
Admin. Bldg.

Month / Year: 11/06

Project No: 43500-5060-00003

Date	Time	Instrument and TRC ID	Comments	Initials
11-3-06	1025		ME starts PCM clearance samples in storage area.	ME
	1145		ME collects samples. Petco is loading up truck.	ME
	1200		ME reads samples. Clearances passed.	
	1210		Petco tears down containment. ME loads truck with supplies/equipment and goes back to the office. LEO off-site.	ME
	1330		Petco off-site.	

PROJECT OUTLINE

Project Address:	Mystic Education Center – Administration Bldg 240 Oral School Road Groton, CT
DAS Contract Number:	03PSX0346AE
DPW Project Manager:	Michael Sanders
DPW Project No.:	RM-06-06
DPW Building No.:	16945
TRC Project No.:	43500-5060-00003
Date(s) of Project:	10/25/06-11/3/06
TRC Project Manager:	Donald LePage
TRC Project Monitor(s)/Inspector(s):	Lance Cotton (#000012) – PM (#000221) – Insp
Abatement Contractor:	Petco Insulation Co., Inc. (#000036)
Materials Abated:	~100 SF ACM plaster/skim coat – dining area walls ~512 SF ACM floor tile/mastic – Alion porch, storage area near dining area - ACM debris – crawlspace
Waste Hauler(s):	TransWaste, Inc., Cheshire, CT
Asbestos Landfill:	Modern Landfill, York, PA
Asbestos Waste Generated:	~ Seven (6.75) cubic yards (CY)

APPENDIX A
NOTIFICATIONS/ALTERNATIVE WORK PRACTICES

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
ASBESTOS ABATEMENT NOTIFICATION FORM

State Use Only

Post Mark Date: _____
Check #: _____
Amount: _____
Transmittal # _____
Record #: _____

This form is to be completed, postmarked and filed with the Connecticut Department of Public Health ten (10) days prior to the start of asbestos abatement, as required by the Regulations of Connecticut State Agencies, Section 19a-332a-3. In case of emergency notifications, this form is to be completed and postmarked within one (1) working day following the start of asbestos abatement. The U.S. EPA may require notification of abatement or demolition, as per 40 CFR, Part 61, the asbestos NESHAP regulation. Faxed originals are not acceptable. Revisions may be faxed unless a fee is required.

(fill in or circle each item)

1. TYPE OF NOTIFICATION

A. NEW _____ **B. BLANKET** _____ **C. CANCELLATION / POSTPONED (C)** _____ **(P)** _____
D. REVISED X **(ITEMS REVISED)** Items 5(B), 6(B), 131 & 13M **REVISION #:** 1
E. EMERGENCY _____ **DESCRIBE NATURE OF EMERGENCY** _____

2. ABATEMENT CONTRACTOR:
Name: Petco Insulation Company, Inc. License #: 000036
Address: 88 Farwell Street, P.O. Box 26127
City: West Haven State: Connecticut Zip Code: 06516
Phone #: (203)934-3926 Contact Person: James Reilly

3. FACILITY OWNER/OPERATOR:
Name: State of Connecticut, Department of Public Works
Address: 165 Capitol Avenue
City: Hartford State: Connecticut Zip Code: 06106
Phone #: (860)713-5821 Contact Person: Jim Sinclair

4. NAME OF FACILITY: (MUST BE FILLED IN)
Name: Mystic Education, Administration Building
Address: 240 School Road
City: Groton State: Connecticut Zip Code: _____

5.(A) START DATE: 10/27/06 **5. (B) COMPLETION DATE:** 11/6/06

FOR PROJECTS INVOLVING 160 SQ FT OR MORE OF ASBESTOS

IF APPLICABLE
6. (A) TOTAL COST OF ABATEMENT: _____ **6. (B) REVISED COST:** _____

Mail to:
Connecticut DPH
Division of Environmental Health
Indoor Air Program
410 Capitol Avenue, MS 51 AIR
PO Box 340308
Hartford, CT 06134-0308

Phone: (860) 509-7367/ Fax: (860) 509-7378
An Equal Opportunity Employer

7. USE OF FACILITY:

A. School (K-12) ____ B. Public Building ____ C. Manufacturing ____
D. Office ____ E. College ____ F. Commercial ____
G. Church/Synagogue ____ H. Residential, # of dwellings ____ I. Other X (SPECIFY) DMR Facility

8. BUILDING DATA:

SQUARE FEET: 69,658 Number of floors: 4 Age: 76 yrs old

9. ABATEMENT CLASSIFICATION:

A. Renovation: X B. Demolition: ____ C. Ordered Demolition -- Agency Issuing Order: ____
NOTE: Attach Demolition Order

10. ABATEMENT TECHNIQUE:

A. Full Containment with Neg. Air X B. Alternative Work Practice (preapproval required) X
Project Designer / License # DPW Blanket AWP, Scenario #2
C. Exterior Abatement ____ D. SPOT REPAIR (>25 SQ FT TOTAL) ____

11. ABATEMENT METHOD:

A. Removal X
B Encapsulation ____
C .Enclosure ____

12. TYPE OF DECONTAMINATION SYSTEM:

A. Contiguous X B. Remote X

13. TYPE AND AMOUNT OF ASBESTOS TO BE ABATED: (REPORTED IN SQUARE FEET)

FRIABLE MATERIAL

A. Sprayed or Troweled on		Sq. ft.	E. Duct Insulation		Sq. ft.
B. Boiler Insulation		Sq. ft.	F. Ceiling Tiles		Sq. ft.
C. Tank Insulation		Sq. ft.	G. Other, Specify: *PLASTER*	100	Sq. ft.
D. Breeching Insulation		Sq. ft.	H. Pipe Insulation*		Sq. ft.
*Pipe Insulation	Total Linear Feet				

Pipe diameter" Linear Feet multiplied by conversion factor* equals Total Sq ft (*see Notif. Conversion table)

	In.		LF	x		
	In.		LF	x		
	In.		LF	x		
	In.		LF	x		

NONFRIABLE MATERIAL

Category I	square feet	Category II	square feet
I. Floor coverings/tiles	512	L. Transite Board	
J. Roofing, specify:		M. Other, specify: Cove Base	35
K. Gaskets, packings			

14. WASTE DIPSOSAL SITE (IF MULTIPLE SITES, LIST SEPARATELY):

Name	Modern Landfill	OR	BFI Imperial Landfill	OR	Manchester Landfill
Address	4400 Mt. Pisgah Rd		11 Boggs Road, P.O Box 47		1 Landfill Way
City, State, Zip	York, PA 17402		Imperial, PA 15126		Mancheseter, CT 06040
Owner, Operator					

15. HAULER/WASTE TRANSPORTER:

Name	Transwaste, Inc.
Address	3 Barker Drive
City, State, Zip	Wallingford, CT 06492

Name of Individual Completing This Form James Reilly

State Use Only

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
ASBESTOS ABATEMENT NOTIFICATION FORM

Post Mark Date:_____
Check #: _____
Amount:_____
Transmittal #_____
Record #:_____

This form is to be completed, postmarked and filed with the Connecticut Department of Public Health ten (10) days prior to the start of asbestos abatement, as required by the Regulations of Connecticut State Agencies, Section 19a-332a-3. In case of emergency notifications, this form is to be completed and postmarked within one (1) working day following the start of asbestos abatement. The U.S. EPA may require notification of abatement or demolition, as per 40 CFR, Part 61, the asbestos NESHAP regulation. Faxed originals are not acceptable. Revisions may be faxed unless a fee is required.

(fill in or circle each item)

1. TYPE OF NOTIFICATION

A. NEW X **B. BLANKET** ____ **C. CANCELLATION / POSTPONED (C)** ____ **(P)** ____
D. REVISED ____ **(ITEMS REVISED)** _____ **REVISION #:** _____
E. EMERGENCY ____ **DESCRIBE NATURE OF EMERGENCY** _____

2. ABATEMENT CONTRACTOR:
Name: Petco Insulation Company, Inc. License #: 000036
Address: 88 Farwell Street, P.O. Box 26127
City: West Haven State: Connecticut Zip Code: 06516
Phone #: (203)934-3926 Contact Person: James Reilly

3. FACILITY OWNER/OPERATOR:
Name: State of Connecticut, Department of Public Works
Address: 165 Capitol Avenue
City: Hartford State: Connecticut Zip Code: 06106
Phone #: (860)713-5821 Contact Person: Jim Sinclair

4. NAME OF FACILITY: (MUST BE FILLED IN)
Name: Mystic Education, Administration Building
Address: 240 School Road
City: Groton State: Connecticut Zip Code: _____

5.(A) START DATE: 10/27/06 **5. (B) COMPLETION DATE:** 11/3/06

FOR PROJECTS INVOLVING 160 SQ FT OR MORE OF ASBESTOS

IF APPLICABLE
6. (A) TOTAL COST OF ABATEMENT: _____ **6. (B) REVISED COST:** _____

43500 - 5060

PHASE 1 Crawl Space

PHASE 2 - Tile from Atrium Porch

PHASE 3 - Dining HALL PLASTER

Mail to:
Connecticut DPH
Division of Environmental Health
Indoor Air Program
410 Capitol Avenue, MS 51 AIR
PO Box 340308
Hartford, CT 06134-0308

Phone: (860) 509-7367/ Fax: (860) 509-7378
An Equal Opportunity Employer

7. USE OF FACILITY:

A. School (K-12) ____ B. Public Building ____ C. Manufacturing ____
D. Office ____ E. College ____ F. Commercial ____
G. Church/Synagogue ____ H. Residential, # of dwellings ____ I. Other X (SPECIFY) DMR Facility

8. BUILDING DATA:

SQUARE FEET: 69,658 Number of floors: 4 Age: 76 yrs old

9. ABATEMENT CLASSIFICATION:

A. Renovation: X B. Demolition: ____ C. Ordered Demolition – Agency Issuing Order: ____
NOTE: Attach Demolition Order

10. ABATEMENT TECHNIQUE:

A. Full Containment with Neg. Air X B. Alternative Work Practice (preapproval required) X
Project Designer / License # DPW Blanket AWP, Scenario #2
C. Exterior Abatement ____ D. SPOT REPAIR (>25 SQ FT TOTAL) ____

11. ABATEMENT METHOD:

A. Removal X
B Encapsulation ____
C .Enclosure ____

12. TYPE OF DECONTAMINATION SYSTEM:

A. Contiguous X B. Remote X

13. TYPE AND AMOUNT OF ASBESTOS TO BE ABATED: (REPORTED IN SQUARE FEET)

FRIABLE MATERIAL

A. Sprayed or Troweled on		Sq. ft.	E. Duct Insulation		Sq. ft.
B. Boiler Insulation		Sq. ft.	F. Ceiling Tiles		Sq. ft.
C. Tank Insulation		Sq. ft.	G. Other, Specify: *PLASTER*	100	Sq. ft.
D. Breeching Insulation		Sq. ft.	H. Pipe Insulation*		Sq. ft.
*Pipe Insulation	Total Linear Feet				

Pipe diameter" Linear Feet multiplied by conversion factor* equals Total Sq ft (*see Notif. Conversion table)

	In.		LF	x		
	In.		LF	x		
	In.		LF	x		
	In.		LF	x		

NONFRIABLE MATERIAL

Category I	square feet	Category II	square feet
I. Floor coverings/tiles	200	L. Transite Board	
J. Roofing, specify:		M. Other, specify:	
K. Gaskets, packings			

14. WASTE DIPSOSAL SITE (IF MULTIPLE SITES, LIST SEPARATELY):

Name	Modern Landfill	OR	BFI Imperial Landfill	OR	Manchester Landfill
Address	4400 Mt. Pisgah Rd		11 Boggs Road, P.O Box 47		1 Landfill Way
City, State, Zip	York, PA 17402		Imperial, PA 15126		Mancheseter, CT 06040
Owner, Operator					

15. HAULER/WASTE TRANSPORTER:

Name	Transwaste, Inc.
Address	3 Barker Drive
City, State, Zip	Wallingford, CT 06492

Name of Individual Completing This Form James Reilly

State of Connecticut
Department of Public Health
Alternative Work Practice (AWP)
Approval Form

Check box for applicable AWP scenario

☐ **1. Renovation Projects – Removal of Friable Asbestos-Containing Material (ACM) Using the Glove-Bag Method**
Variance from Section 19a-332a-5(e)

Abatement work in facilities subject to this approval shall be conducted with appropriate signage, as required by Section 19a-332a-5(a). In lieu of the requirements of Section 19a-332a-5(e), the friable asbestos-containing material shall be removed utilizing the glove-bag procedure outlined in 29 CFR 1926.1101, of the Department of Labor, Occupational Safety and Health Administration regulation. In addition to the glove-bag procedure, the work area is to be isolated from the non-work area by establishing an air-tight barrier of 6 mil polyethylene sheeting covering or composing the wall surfaces and covering the floor surface. In areas where this barrier does not extend to the ceiling, the layer of 6 mil polyethylene sheeting shall compose the ceiling of the air-tight enclosure.

☒ **2. Renovation Projects – Removal of Non-friable ACM**
Variance from Section 19a-332a-5(e)

Abatement work in facilities subject to this approval shall be conducted with appropriate signage, as required by Section 19a-332a-5(a). In lieu of the requirements of Section 19a-332a-5(e), the work area shall be isolated from the non-work area by barriers as outlined in Section 19a-332a-5(c). Additionally, a single layer of 4 or 6 mil polyethylene sheeting shall be used to seal the wall surfaces in the work area. This scenario is limited to non-friable flooring/treading, cove base, mastic/glue, transite/cementitious materials, glue daubs, gaskets, caulking, putty and asphalt materials unless written approval by DPH is granted.

☐ **3. Demolition Projects, Sound Structure – Removal of Friable ACM Using the Glove-Bag Method**
Variance from Section 19a-332a-5(e)

Abatement work in facilities subject to this approval shall be conducted with appropriate signage, as required by Section 19a-332a-5(a). In lieu of the requirements of Section 19a-332a-5(e), the work area shall be isolated from the non-work area by barriers as outlined in Section 19a-332a-5(c). The friable asbestos-containing material shall be removed utilizing the glove-bag procedure outlined in 29 CFR 1926.1101 of the Department of Labor, Occupational Safety and Health Administration regulation. Negative pressure ventilation will be established in accordance with Section 19a-332a-5(h). The work area shall be visually inspected and pass the no visible debris criteria of Sections 19a-332a-5(g) and 19a-332a-7(c). In addition, when the building is to be reoccupied by any person prior to demolition, post abatement reoccupancy air testing shall be performed in accordance with Section 19a-332a-12.

☐ **4. Demolition Projects, Sound Structure – Removal of Non-friable ACM**
Variance from Section 19a-332a-5(e)

Abatement work in facilities subject to this approval shall be conducted with appropriate signage, as required by Section 19a-332a-5(a). In lieu of the requirements of Section 19a-332a-5(e), the work area is to be isolated from the non-work area by barriers as outlined in Section 19a-332a-5(c). Negative pressure ventilation will be established in accordance with Section 19a-332a-5(h). This work practice is applicable *only* for removal of non-friable ACM. For the purposes of this approval, non-friable ACM is limited to non-friable flooring/treading, cove base, mastic/glue, transite/cementitious materials, glue daubs, gaskets, caulking, putty and asphalt materials unless written approval by DPH is granted.

APPENDIX B
CONTRACTOR CERTIFICATIONS/LICENSES

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
ROBERT LEACH

VALIDATION NO.	CERTIFICATION NO.	CURRENT THROUGH
03-323088	000637	05/31/07

PROFESSION
ASBESTOS ABATEMENT SUPERVISOR

SIGNATURE

J Robert Galvin MD, MPH.
COMMISSIONER

NEW ENGLAND LABORERS'
TRAINING TRUST FUND
P.O. Box 77
Pomfret Center, CT 06259
(860) 974-1455

ROBERT M LEACH

The individual named has completed the requisite training for asbestos accreditation under TSCA Title II

Joseph M. Sabitoni *Training Director*

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

ROBERT M LEACH	
Certificate Number 045468560ASBSR0806	
Course Date 3/31/2006	*Exam Date* 3/31/2006
Expires: 3/31/2007	

Robert Leach
045-46-8560
8/7/89 - 8/10/89 8/15/90
Environmental Services, Inc.
25 Science Park • New Haven, CT 06511

EnviroMed Services, Inc.

Certificate of Completion

Robert Leach

has successfully completed, and passed an examination covering the contents of the initial four (4) day thirty-two (32) hour course for Asbestos Abatement Workers in accordance with the United States Environmental Protection Agency's Model Contractor Accreditation Plan.

10812

Certificate Number

George Giaccofr
Training Coordinator
EnviroMed Services, Inc.

8/7/89 - 8/10/89
Course and Exam Date

8/19/90
Instructor

ABATEMENT TECHNIQUES
8-HOUR WORKER UPGRADE to FOREMAN/SUPERVISOR

Name: Robbie Leach
SS #: 045-46-8560
Issued: 5/25/90 Expires: 5/25/91
Test Grade: 70% Certificate #: C-5003-S

New England Laborers' Training
Route 97 & Murdock Rd. - P
Pomfret Center, CT 06

HEALTH, SAFETY & ASBESTOS
ABATEMENT TECHNIQUES
8-HOUR REVIEW COURSE for FOREMAN/SUPERVISOR

Name: Robert Leach
SS #: 045-46-8560
Issued: 4-24-91 Expires: 4-24-92
Test Grade: 88% Certificate #: C-0274SR

New England Laborers' Training Trust Fund
Route 97 & Murdock Rd. - P.O. Box 77
Pomfret Center, CT 06259

Gennaro S. Lepore
Administrator

HEALTH, SAFETY & ASBESTOS
ABATEMENT TECHNIQUES
8-HOUR REVIEW COURSE for FOREMAN/SUPERVISOR

Name: Robert Leach
SS #: 045-46-8560
Issued: 3-18-92 Expires: 3-18-93
Test Grade: 86% Certificate #: C-5003SR

New England Laborers' Training Trust Fund
Route 97 & Murdock Rd. - P.O. Box 77
Pomfret Center, CT 06259

HEALTH, SAFETY & ASBESTOS
ABATEMENT TECHNIQUES
8-HOUR REVIEW COURSE for FOREMAN/SUPERVISOR

Name: Robert Leach
SS #: 045-46-8560
Issued: 2/5/93 Expires: 2/5/94
Test Grade: 84% Certificate #: C-5003SR

New England Laborers' Training Tr
Route 97 & Murdock Rd. - P.O. E
Pomfret Center, CT 06259

Gennaro S. Lepore
Administrator

HEALTH, SAFETY & ASBESTOS
ABATEMENT TECHNIQUES
40-HOUR COURSE for FOREMAN/SUPERVISOR

Name: Robert Leach
SS #: 045-46-8560
Issued: 1-20-94 Expires: 1-20-95
Test Grade: 90% Certificate #: C-5003SR

New England Laborers' Training Trust Fund
Route 97 & Murdock Rd. - P.O. Box 77
Pomfret Center, CT 06259

Gennaro S. Lepore
Administrator

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

Name/Certificate #
Robert Leach
045468560ASBSR0295
Course Date 02-03-95 Exam Date 020395
Expires 020396

NEW ENGLAND LABORERS'
TRAINING TRUST FUND
P.O. Box 77
Pomfret Center, CT 0625
(203) 974-1455

The individual named has comple
the requisite training for asbes
accreditation under TSCA Title II

John LeConche, Administrator

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

Name/Certificate #
Robert Leach
045468560ASBSR0296
Course Date 02-02-96 Exam Date 020296
Expires 020297

NEW ENGLAND LABORERS'
TRAINING TRUST FUND
P.O. Box 77
Pomfret Center, CT 06259
(203) 974-1455

The individual named has completed
the requisite training for asbestos
accreditation under TSCA Title II

John LeConche, Administrator

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

Name/Certificate #
Robert Leach
045468560ASBSR0197
Course Date 01-10-97 Exam Date 011097
Expires 011098

NEW ENGLAND LABOR
TRAINING TRUST FU
P.O. Box 77
Pomfret Center, CT 06
(203) 974-1455

The individual named has com
the requisite training for asb
accreditation under TSCA Ti

John LeConche, Admin

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

Name/Certificate #
Robert Leach
045468560ASBSR0198
Course Date 01-09-98 Exam Date 010998
Expires 010999

NEW ENGLAND LABORERS'
TRAINING TRUST FUND
P.O. Box 77
Pomfret Center, CT 06259
(203) 974-1455

The individual named has completed
the requisite training for asbestos
accreditation under TSCA Title II

John LeConche, Administrator

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

Name/Certificate #
Robert Leach
045468560ASBSR0199
Course Date 01-06-99 Exam Date 010699
Expires 010600

Concentra Medical Centers (CT)

900 Northrup Road WALLINGFORD, CT 06492
Phone: (203) 949-1534 Fax: (203) 949-9036

PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

Service Date: 06/02/2006

Employee Name: Leach, Robert M.

Employee SSN: 045-46-8560

Address:
47 Linden St

WEST HAVEN CT 06516

Employer: Petco Insulation Co

You were evaluated in this office of your medical status related to your physical capability to wear a respirator. (Check ✓ one that applies)

- ☑ There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- ☐ The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

Based upon the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)

- ☑ ARE qualified to wear a respirator.
- ☐ Have the following restrictions concerning respirator usage: _____
- ☐ ARE NOT qualified to wear a respirator.
- ☐ Require further testing by your private physician who must submit a written report of his/her findings to **Concentra Medical Centers (CT)** so that a final decision on your ability to wear a respirator can be made.
- ☐ Must wear Special prescription eye-wear needed to accommodate respirator.
- ☐ Must use an Eye glass conversion kit.
- ☑ May need to shave Facial hair to assure tight seal on certain face masks.
- ☐ Need to stop smoking.

(Check ✓ ALL that apply)

- ☑ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☐ The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☑ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator.Refer to product literature and packaging for specific information regarding fit, use and/or limitations.

PLHCP Signature

Employee's Signature

PLHCP Name (printed)

6/2/07
Expiration Date

[1] Physician or other Licensed Healthcare Professional

To be maintained in the employee's file with a copy to the employee

RESPIRATOR FIT TEST

Date of Test 8\08\06

Name Bob Leech

SS Number 045-46-8560

Respirator Make Grendale 1/2 face, 3m half

Type

PASS/FAIL

Expiration Date 8\08\07

COMMENTS

Test Administrator

This fit test certification will expire in one (1) year unless other physical factors and/or different respirator is required, Re-Test is required.

Health Care or Environmental Health Professional's License Status

This site is part of **CT-clic.com**, the **Connecticut Licensing Info Center,** that links to all YOUR State licensing and registration needs.

Note: Requests for copies of documents related to past disciplinary action for professions other than physicians may be emailed as such documents are not currently available via this web site. Please include your name and telephone number on any request.

License Type:	Asbestos Abatement Worker
License Number:	004431
Name:	MARTINEZ, JUAN C
Expiration Date:	10/31/2007
Granted Date:	2/27/2002
License Name:	Juan Carlos Martinez
License Status:	Current
Disciplinary Action:	None

Questions ? ?

E-mail webmaster.dph@po.state.ct.us or call (860) 509-7603
Return to DPH Licensure/Renewal Page

For Business Registry Questions? Contact **Smart** or call **1-800-392-2122.**

State of Connecticut Disclaimer and Privacy Policy. Copyright @ 2000 State of Connecticut. Universal Website Accessibility Policy applies. For comments about this site contact the webmaster

Health Care or Environmental Health Professional's License Status

This site is part of **CT-clic.com**, the **Connecticut Licensing Info Center**, that links to all YOUR State licensing and registration needs.

Note: Requests for copies of documents related to past disciplinary action for professions other than physicians may be emailed as such documents are not currently available via this web site. Please include your name and telephone number on any request.

License Type:	Asbestos Abatement Worker
License Number:	004431
Name:	MARTINEZ, JUAN C
Expiration Date:	10/31/2006
Granted Date:	2/27/2002
License Name:	Juan Carlos Martinez
License Status:	Current
Disciplinary Action:	None

Questions ? ?

E-mail webmaster.dph@po.state.ct.us or call (860) 509-7603
Return to DPH Licensure/Renewal Page

For Business Registry Questions? Contact **Smart** or call **1-800-392-2122.**

State of Connecticut Disclaimer and Privacy Policy. Copyright @ 2000 State of Connecticut. Universal Website Accessibility Policy applies. For comments about this site contact the webmaster

Superior Industries LLC

SUPERIOR INDUSTRIES L.L.C.

Committed to a Clean Environment

Certificate of Completion

Awarded to

Juan Carlos Martinez

(SSN 040-04-3919) (DOB 10-13-80)

Has completed a 8 Hour 1 day Approved Course of Instruction in Asbestos Abatement Removal and Disposal (AARD)

Worker Refresher - Spanish

January 7, 2006

Required by OSHA and the EPA Revised MAP for accreditation under the TSCA Title 11 as self-certified by Trainer 8/5/97

Required by Connecticut Regulations 19a-332-21

SUPERIOR INDUSTRIES LLC
342 Carter Lane
Southington, CT. 06489
860-620-1133 (voice)
860-621-1134 (fax)

Examination Date: January 7, 2006
Expiration Date: January 7, 2007
Certificate Number: SWR-040-04-3919-06

Earl R. Clark, Training Director

Superior Industries LLC

SUPERIOR INDUSTRIES L.L.C.

Committed to a Clean Environment

Certificate of Completion

Awarded to

Juan Carlos Martinez

(SSN 040-04-3919) (DOB 10-13-80)

Has completed a 32 Hour 4 day Approved Course of Instruction in Asbestos Abatement Removal and Disposal (AARD)

Worker Initial

February 18, 2002 through February 21, 2002

Required by OSHA and the EPA Revised MAP for accreditation under the TSCA Title 11 as self-certified by Trainer 8/5/97

Required by Connecticut Regulations 19a-332-21

SUPERIOR INDUSTRIES LLC
342 Carter Lane
Southington, CT. 06489
860-620-1133 (voice)
860-621-1134 (fax)

Examination Date: February 21, 2002
Expiration Date: February 21, 2003
Certificate Number: 040-04-3919-02

Earl R. Clark, Training Director

Concentra Medical Centers (CT)

701 Main Street EAST HARTFORD, CT 06108
Phone: (860) 289-5561 Fax: (860) 291-1895

PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

Service Date: 02/07/2006

Employee Name: Martinez, Juan C.

Employee SSN: 040-04-3919

Address:
62 Cambridge St.

MANCHESTER CT 06042

Employer: Petco Insulation Co

You were evaluated in this office of your medical status related to your physical capability to wear a respirator. (Check ✓ one that applies)

- [x] There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- [ ] The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

Based upon the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)

- [x] ARE qualified to wear a respirator.
- [ ] Have the following restrictions concerning respirator usage:
- [ ] ARE NOT qualified to wear a respirator.
- [ ] Require further testing by your private physician who must submit a written report of his/her findings to **Concentra Medical Centers (CT)** so that a final decision on your ability to wear a respirator can be made.
- [ ] Must wear Special prescription eye-wear needed to accommodate respirator.
- [ ] Must use an Eye glass conversion kit.
- [x] May need to shave Facial hair to assure tight seal on certain face masks.
- [ ] Need to stop smoking.

(Check ✓ ALL that apply)

- [x] The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- [ ] The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- [x] In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator.Refer to product literature and packaging for specific information regarding fit, use and/or limitations.

PLHCP Signature

Employee's Signature

J. M. Hernandez PA

PLHCP Name (printed)

2/7/07

Expiration Date

[1]Physician or other Licensed Healthcare Professional

To be maintained in the employee's file with a copy to the employee

RESPIRATOR FIT TEST

Date of Test 9\22\06

Name Juan Martinez

SS Number 040-04-3919

Respirator Make Grendale 1/2 face - 3m PAPR

Type

PASS/FAIL

Expiration Date 9\22\07

COMMENTS

Test Administrator

This fit test certification will expire in one (1) year unless other physical factors and/or different respirator is required, Re-Test is required.

Health Care or Environmental Health Professional's License Status

This site is part of **CT-clic.com**, the **Connecticut Licensing Info Center,** that links to all YOUR State licensing and registration needs.

Note: Requests for copies of documents related to past disciplinary action for professions other than physicians may be emailed as such documents are not currently available via this web site. Please include your name and telephone number on any request.

License Type:	Asbestos Abatement Supervisor
License Number:	001050
Name:	LAWRENCE, DELANO
Expiration Date:	2/28/2007
Granted Date:	4/11/2001
License Name:	Delano Lawrence
License Status:	Current
Disciplinary Action:	None

Questions ? ?

E-mail webmaster.dph@po.state.ct.us or call (860) 509-7603
Return to DPH Licensure/Renewal Page

For Business Registry Questions? Contact **Smart** or call **1-800-392-2122.**

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ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

DELANO LAWRENCE	
Certificate Number 044647711ASBSR1205	
Course Date 12/15/2005	*Exam Date* 12/15/2005
Expires: 12/15/2006	

NEW ENGLAND LABORERS'
TRAINING TRUST FUND
P.O. Box 77
Pomfret Center, CT 06259
(860) 974-1455

DELANO LAWRENCE

The individual named has completed the requisite training for asbestos accreditation under TSCA Title II

Joseph M. Sabitoni *Training Director*

CERT # A-114-85-S

CHEMSCOPE TRAINING DIVISION

ASBESTOS CONTRACTOR/SUPERVISOR

AND PROJECT MONITOR TRAINING

40 HOUR CERTIFICATION

Delano Lawrence

044-64-7711

Has attended an 40 hour Course on the subject discipline on

6/22/94 6/26/94 and has passed a written examination.

"The person receiving this certificate has completed the requisite training required for asbestos accreditation as a supervisor under TSCA Title II".

Course topics include asbestos physical properties, health hazards, respiratory protection, procedures for asbestos abatement, protection clothing, air monitoring, government regulations, equipment and supplies, planning work areas, removal practices and procedures, use of the glovebag, and safety hazards other than asbestos, legal issues, insurance and bonding, record keeping, building systems, supervisory techniques, and contract specifications. The course includes lecture, demonstration, and hands on training.

Examination Date: 6/26/94

Expiration Date: 6/26/95

Ronald D. Arena

CHEMSCOPE, INC.
15 Mountbrook Street
North Haven CT 06473

CERT # A-108-890-S

CHEMSCOPE TRAINING DIVISION

ASBESTOS CONTRACTOR/SUPERVISOR/MONITOR

8 HOUR REFRESHER CERTIFICATION

DELANO LAWRENCE

044-64-7711

Has attended an 8 hour Annual Refresher Course on the subject discipline on

7/14/95 and has passed a written examination.

"The person receiving this certificate has completed the requisite training required for asbestos acc supervisor under TSCA Title II".

Course topics include a review and update on asbestos health hazards, personal protection, emission control measures, government regulations, planning work areas, removal practices and procedures and air mon

Examination Date: 7/14/95

Expiration Date: 7/14/96

Ronald D. Arena
Director

CHEMSCOPE
15 Mountbrook
North Haven
(203) 866-6

CERT # A-108-891-S

CHEMSCOPE TRAINING DIVISION

ASBESTOS CONTRACTOR/SUPERVISOR/MONITOR

8 HOUR REFRESHER CERTIFICATION

DELANO LAWRENCE

044-64-7711

Has attended an 8 hour Annual Refresher Course on the subject discipline on

7/12/96 and has passed a written examination.

"The person receiving this certificate has completed the requisite training required for asbestos accreditation as a supervisor under TSCA Title II".

Course topics include a review and update on asbestos health hazards, personal protection, emission control measures, government regulations, planning work areas, removal practices and procedures and air monitoring.

Examination Date: 7/12/96

Expiration Date: 7/12/97

CHEMSCOPE, INC.
15 Mountbrook Street
North Haven CT 06473
(203) 866-4446

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

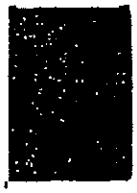
Name/Certificate #	
Delano Lawrence 044647711ASBSR0798	
Course Date 07-10-98	Exam Date 071098
Expires	071099

NEW ENGLAND LABORERS'
TRAINING TRUST FUND
P.O. Box 77
Pomfret Center, CT 06259
(203) 974-1455

The individual named has completed the requisite training for asbestos accreditation under TSCA Title II

John LeConche, Administrator

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER



Name/Certificate #	
Delano Lawrence 044647711ASBSR0797	
Course Date 07-11-97	Exam Date 071197
Expires	071198

NEW ENGLAND LABORERS'
TRAINING TRUST FUND
P.O. Box 77
Pomfret Center, CT 06259
(203) 974-1455

The individual named has completed the requisite training for asbestos accreditation under TSCA Title II

John LeConche, Administrator

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

Name/Certificate #	
Delano Lawrence 044647711ASBSR0799	
Course Date 07-02-99	Exam Date 070299
Expires	070200

Superior Industries LLC

SUPERIOR INDUSTRIES L.L.C.

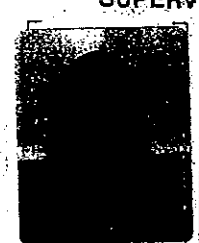
Certificate of Completion
Awarded to
Lawrence DeLano
(SSN 044-64-7711) (DOB 02/26/67)
Has completed an 8 Hour Approved Course of Instruction in Asbestos Abatement Removal and Disposal (AARD)
Supervisor Refresher Training
March 3, 2001
Required by OSHA and the EPA Revised MAP for accreditation under the TSCA Title II as self-certified by Trainer 96/97
Required by Connecticut Regulations 19a-332-31

SUPERIOR INDUSTRIES LLC
342 Carter Lane
Southington, CT 06489
[illegible] (voice)
[illegible]

Examination Date: March 3, 2001
Expiration Date: March 3, 2002
Certificate Number: 044-64-7711-01

Larry Buttiga, Training Director

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER



Name/Certificate #	
Delano Lawrence 044647711ASBSR0202	
Course Date 02-22-02	Exam Date 022202
Expires	022203

Concentra Medical Centers (CT)

370 James St Suite 304 NEW HAVEN, CT 06513
Phone: (203) 503-0482 Fax: (203) 503-0492

PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

Service Date: 04/28/2006

Employee Name: Lawrence Sr. Delano

Employee SSN: 044-64-7711

Address:
P.O.Box 3294

NEW HAVEN CT 06515

Employer: Petco Insulation Co

You were evaluated in this office of your medical status related to your physical capability to wear a respirator. (Check ✓ one that applies)

- ☐ There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- ☐ The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

Based upon the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)

- ☒ ARE qualified to wear a respirator.
- ☐ Have the following restrictions concerning respirator usage: _____
- ☐ ARE NOT qualified to wear a respirator.
- ☐ Require further testing by your private physician who must submit a written report of his/her findings to **Concentra Medical Centers (CT)** so that a final decision on your ability to wear a respirator can be made.
- ☐ Must wear Special prescription eye-wear needed to accommodate respirator.
- ☐ Must use an Eye glass conversion kit.
- ☐ May need to shave Facial hair to assure tight seal on certain face masks.
- ☐ Need to stop smoking.

(Check ✓ ALL that apply)

- ☒ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☐ The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☒ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator.Refer to product literature and packaging for specific information regarding fit, use and/or limitations.

PLHCP Signature

Employee's Signature

PLHCP Name (printed)

Expiration Date

[1]Physician or other Licensed Healthcare Professional

To be maintained in the employee's file with a copy to the employee

RESPIRATOR FIT TEST

Date of Test 5\10\06

Name Delano Lawrence

SS Number 044-64-7711

Respirator Make glendale 1/2 face - 3m PAPR

Type

PASS/FAIL

Expiration Date 5\10\07

COMMENTS

Test Administrator [signature]

This fit test certification will expire in one (1) year unless other physical factors and/or different respirator is required, Re-Test is required.

APPENDIX C
DAILY PROJECT SIGN-IN SHEETS

Mystic Education

SIGN-IN SHEET FOR CT DPW - 240 Oral School Rd., Admin Bldg., Mystic, CT
(Job Name and Project Number)
(43500-5060-00003)

NOTICE: All persons entering and leaving the Clean Room, Showers, Equipment Room and Work Area(s) must sign in and out. Please complete all information slots.

TRC REPRESENTATIVE: Lance Cotton DATE: 10/25/06

NAME	COMPANY	DESTINATION (Clean Room, Showers, Equip. Room, Work Area)	PROTECTIVE CLOTHING (Respirator, Tyvek Suit, Gloves)	PURPOSE of Entry (Inspection, Work)	TIME IN - OUT
Bob Leach	Petco	Crawl space - removal of asbestos debris	OSHA ug'd	Supervisor	0700 - 1330
Juan Martinez				Workers	
Delano Lawrence					

11/86

Mystic Connection Dr.

SIGN-IN SHEET FOR CT DOW - 240 Oral School Road, Mystic, CT Admin. Bldg.
(Job Name and Project Number) L43506-5060-00003

NOTICE: All persons entering and leaving the Clean Room, Showers, Equipment Room and Work Area(s) must sign in and out. Please complete all information slots.

TRC REPRESENTATIVE: Lenne Cotton DATE: 10/26/06

NAME	COMPANY	DESTINATION (Clean Room, Showers, Equip. Room, Work Area)	PROTECTIVE CLOTHING (Respirator, Tyvek Suit, Gloves)	PURPOSE of Entry (Inspection, Work)	TIME IN - OUT
Bob Leach	Petco	crawl space - removal of ash debris off of dirt floor from pipe insulation	OSHA req'd	supervisor	0700-1530
Juan Martinez				worker	
DeLano Lawrence					

11/86

SIGN-IN SHEET FOR CT DPW — ~~Girl's~~ Admin. Bldg. Dining Area, Mystic Educational Center, 240 Oral School Road, Mystic, CT
(Job Name and Project Number)
(43500-5060-00003)

NOTICE: All persons entering and leaving the Clean Room, Showers, Equipment Room and Work Area(s) must sign in and out. Please complete all information slots.

TRC REPRESENTATIVE: Lance Cotton DATE: 10-27-06

NAME	COMPANY	DESTINATION (Clean Room, Showers, Equip. Room, Work Area)	PROTECTIVE CLOTHING (Respirator, Tyvek Suit, Gloves)	PURPOSE of Entry (Inspection, Work)	TIME IN - OUT
Bob Leach	Petco	prep - Tents 1, 2 & 3 ~~Girl's~~ Admin. Bldg. - Dining Area	OSHA reqld	supervisor	0700-1530
Juan Martinez	↓	↓	↓	↓	↓
DeLano Lawrence	↓	↓	↓	↓	↓

11/86

SIGN-IN SHEET FOR CT DPW - ~~Girls~~ Admin. Bldg. Dining Area, 240 Oral School Road Mystic, CT
Mystic Educational Center
(Job Name and Project Number)
(43500-5066-00003)

NOTICE: All persons entering and leaving the Clean Room, Showers, Equipment Room and Work Area(s) must sign in and out. Please complete all information slots.

TRC REPRESENTATIVE: Lance Cotton DATE: 10-30-06

NAME	COMPANY	DESTINATION (Clean Room, Showers, Equip. Room, Work Area)	PROTECTIVE CLOTHING (Respirator, Tyvek Suit, Gloves)	PURPOSE of Entry (Inspection, Work)	TIME IN - OUT
Bob Leach	Petco	Admin. ~~Girls~~ Bldg. - clearances in tents 1, 2, & 3 skimcoat/plaster repair	OSHA req'd	supervisor	0700-1530
Juan Martinez	↓	↓	↓	Wrycus	↓
Delano Lawrence	↓	↓	↓	↓	↓

11/86

SIGN-IN SHEET FOR CT DPW ~~CMS~~ Admin Bldg, ~~Dining Area~~ Ne, 240 Oral School Road Mystic, CT
(Job Name and Project Number)
(43500-5060-00003) Alion Porch

NOTICE: All persons entering and leaving the Clean Room, Showers, Equipment Room and Work Area(s) must sign in and out. Please complete all information slots.

TRC REPRESENTATIVE: Lance Cotton DATE: 10-31-06

NAME	COMPANY	DESTINATION (Clean Room, Showers, Equip. Room, Work Area)	PROTECTIVE CLOTHING (Respirator, Tyvek Suit, Gloves)	PURPOSE of Entry (Inspection, Work)	TIME IN - OUT
Bob Leach	Petco	Admin. Bldg. Alion Porch - removal of tile	OSHA req'd	supervisor	0700-1530
Juan Martinez				workers	
DeLano Lawrence					

11/86

SIGN-IN SHEET FOR CT DPW ~~Girls~~ Admin. Bldg. ~~Dining Area~~ Alien Porch, 240 Oral School Road Mystic, CT
(Job Name and Project Number)
(43500-5060-00003)

NOTICE: All persons entering and leaving the Clean Room, Showers, Equipment Room and Work Area(s) must sign in and out. Please complete all information slots.

TRC REPRESENTATIVE: Lance Cotton DATE: 11-1-06

NAME	COMPANY	DESTINATION (Clean Room, Showers, Equip. Room, Work Area)	PROTECTIVE CLOTHING (Respirator, Tyvek Suit, Gloves)	PURPOSE of Entry (Inspection, Work)	TIME IN - OUT
Bob Leach	Petco	Admin. Bldg. Alien Porch - removal of mastic	OSHA req'd	supervisor	0700-1530
Juan Martinez		Clearances also done on 11/1/06		Workers	
Delano Lawrence					

11/86

SIGN-IN SHEET FOR CTDPW- Admin. Bldg. - dining area (storage area) (Mystic education Ce...)
(Job Name and Project Number)
(43500-5060-00003)

NOTICE: All persons entering and leaving the Clean Room, Showers, Equipment Room and Work Area(s) must sign in and out. Please complete all information slots.

TRC REPRESENTATIVE: Laurel Cottas DATE: 11-2-06

NAME	COMPANY	DESTINATION (Clean Room, Showers, Equip. Room, Work Area)	PROTECTIVE CLOTHING (Respirator, Tyvek Suit, Gloves)	PURPOSE of Entry (Inspection, Work)	TIME IN - OUT
Bob Leach	Petco	prep in storage area in dining area and removal of black 9"x9" floor tile	OSHA req'd	supervisor	0200-1530
Juan Martinez				workers	
DeLano Laurence					

11/86

Mystic

SIGN-IN SHEET FOR CTDPW - Admin. Bldg. (storage area in dining area)
(Job Name and Project Number) 240 Oval School Road Mystic, CT
(43500-5860-00003)

NOTICE: All persons entering and leaving the Clean Room, Showers, Equipment Room and Work Area(s) must sign in and out. Please complete all information slots.

TRC REPRESENTATIVE: Jane Cotton DATE: 11-3-06

NAME	COMPANY	DESTINATION (Clean Room, Showers, Equip. Room, Work Area)	PROTECTIVE CLOTHING (Respirator, Tyvek Suit, Gloves)	PURPOSE of Entry (Inspection, Work)	TIME IN - OUT
Bob Leach	Petco	Admin. Bldg. storage area in dining area - removing mastic (clearances)	OSHA req'd	Supervisor	0700 TBD
Juan Martinez				Workers	
Delano Lawrence					

11/86

APPENDIX D
CONTRACTOR OSHA PERSONNEL AIR SAMPLING RESULTS

Company: PETCO
88 Farwell Street
West Haven, Connecticut 06516-0961

Hygienist TRC

Lab # 81709

Type of Project

☑ Asbestos Abatement ☐ Lead Abatement

Type of Removal

☐ Pre-clean ☐ Set Up ☐ Encapsulation
☐ Pipe ☐ Fittings ☐ Transite Board
☐ Boiler ☐ Tank ☐ Sprayed-On
☐ Breeching ☐ Duct ☐ Floor Tile
☐ Ceiling Tile ☐ Bag Out ☐ Blastrac
☐ Glovebag ☐ Mastic Removal
☑ Other cleaning crawlspace

Date Collected 10/25-06 / 10-26-06
Job Name MYSTIC Ed-Admin-Bldg.
Job Number 201-2645
Project Foreman Bob Leach

Calibration
Analyst: Lance R. Cotton, 10-26-06
QC Analyst: Lance R. Cotton, 10-26-06
Lab Manager: Henry J. Sciberta

☐ Final Clearance Air Test
☑ Personal Sample
☐ Work Sample

Sample Number	Worker Name/S.S. Number / Work Function	Respirator Type/Brand	Time On	Time Off	Flow (L/Min)	Pump No.	Fiber Concentration	T.W.A.
1	Juan Martinez - Excursion / cleaning crawlspace	½ Face glendale	7:15 AM	7:45 AM	2.5		0/100 / ndL 0.036	—
2	Juan Martinez / cleaning crawl space	½ Face glendale	7:45 AM	2:45 PM	2.5		1.5/100 / ndL ~~0.007~~ 0.0012 (W)	— QC-0/100
3	Field Blank	—	—	—	—		0/100	—
4	Field Blank	—	—	—	—		0/100	—
5	Juan Martinez - Excursion / cleaning crawl space	½ Face glendale	7:15 AM	7:45 AM	2.5		3/100 / ndL 0.036	—
6	Juan Martinez / cleaning crawlspace	½ Face glendale	7:45 AM	2:55 PM	2.5		11/100 / ~~0.015~~ 0.005 (W)	Qcld 12/100

Rec'd by: 11/2/06 0330

Company: PETCO
88 Farwell Street
West Haven, Connecticut 06516-0961

Hygienist TRC

Lab #81709

Type of Project

[✓] Asbestos Abatement

[ ] Lead Abatement

Date Collected 10-26-06

Job Name Mystic Edr admin Bldg.

Job Number 201-2645

Project Foreman Bob Leach

Analyst: Lance R. Cotton, 10-26-06
QC Analyst: Lance R. Cotton, 10-26-06
Lab Manager: Henry J. Schiberte

Calibration

[ ] Final Clearance Air Test

[✓] Personal Sample

[ ] Work Sample

Type of Removal

[ ] Pre-clean
[ ] Pipe
[ ] Boiler
[ ] Breeching
[ ] Ceiling Tile
[ ] Glovebag
[✓] Other cleaning crawl space
[ ] Set Up
[ ] Fittings
[ ] Tank
[ ] Duct
[ ] Bag Out
[ ] Encapsulation
[ ] Transite Board
[ ] Sprayed-On
[ ] Floor Tile
[ ] Blastrac
[ ] Mastic Removal

Sample Number	Worker Name/S.S. Number / Work Function	Respirator Type/Brand	Time On	Time Off	Flow (L/Min)	Pump No.	Fiber Concentration	T.W.A.
7	Field Blank	—	—	—	—	—	0/100	—
8	Field Blank	—	—	—	—	—	0/100	—

Recd by [signature] 4/3/06 0830

Company: PETCO
88 Farwell Street
West Haven, Connecticut 06516-0961

Hygienist TRC

Lab # 81710

Type of Project

[x] Asbestos Abatement

[ ] Lead Abatement

Type of Removal

[ ] Pre-clean
[ ] Pipe
[ ] Boiler
[ ] Breeching
[ ] Ceiling Tile
[ ] Glovebag
[ ] Other

[ ] Set Up
[ ] Fittings
[ ] Tank
[ ] Duct
[ ] Bag Out

[ ] Encapsulation
[ ] Transite Board
[ ] Sprayed-On
[ ] Floor Tile
[ ] Blastrac
[ ] Mastic Removal

Date Collected 10-30-06
Job Name Mystic Ed - Dining Rm.
Job Number 201-2643
Project Foreman Bob Leach

Analyst: Lance R. Lottar, 10/30/06
QC Analyst: Lance R. Lottar, 10/30/06
Lab Manager: Henry J. Schiberte

Calibration

[ ] Final Clearance Air Test
[x] Personal Sample
[ ] Work Sample

Sample Number	Worker Name/S.S. Number / Work Function	Respirator Type/Brand	Time On	Time Off	Flow (L/Min)	Pump No.	Fiber Concentration	T.W.A.
1	Juan Martinez Excursion scraping (Acm) Plaster + Paint cp-11	½ Face glendale	7:45 AM	8:15 AM	2.5		2.5/100 / ndL 0.036	Qc'd 6/100 JRC
2	Juan Martinez scraping (Acm) plaster + paint cp-11	½ Face glendale	8:15 AM	11:45 AM	2.5		5/100 / ndL ~~0.013~~ 0.005	QC 5/100
3	Field Blank	—	—	—	—	—	0/100	—
4	Field Blank	—	—	—	—	—	0/100	—

Read by: [signature] 11/2/06 0830

Company: PETCO
88 Farwell Street
West Haven, Connecticut 06516-0961

Hygienist TRC

Lab # 81709

Type of Project

☑ Asbestos Abatement ☐ Lead Abatement

Type of Removal

☐ Pre-clean ☐ Set Up ☐ Encapsulation
☐ Pipe ☐ Fittings ☐ Transite Board
☐ Boiler ☐ Tank ☐ Sprayed-On
☐ Breeching ☐ Duct ☑ Floor Tile
☐ Ceiling Tile ☐ Bag Out ☐ Blastrac
☐ Glovebag ☑ Mastic Removal
☐ Other

Date Collected 10-31-06 / 11-01-06
Job Name MYSTIC Ed - Admin Bldg - Porch
Job Number 201-2645
Project Foreman Bob Leach

Analyst: Lanee R-Cotton, 11-1-06
QC Analyst: Lanee R-Cotton, 11-1-06
Lab Manager: Henry J. Scibetta

Calibration
☐ Final Clearance Air Test
☑ Personal Sample
☐ Work Sample

Sample Number	Worker Name/S.S. Number / Work Function	Respirator Type/Brand	Time On	Time Off	Flow (L/Min)	Pump No.	Fiber Concentration	T.W.A.
1	Juan Martinez - Excursion / Removeing (Acm) Floor Tile + mastic	½ Face glendale	11:15 AM	11:45 AM	2.5	—	1/100 / ndL 0.036	
2	Juan Martinez / Removing (Acm) Floor Tile + mastic	½ Face glendale	11:45 AM	2:35 PM	2.5	—	0/100 / ndL 0.006	QC 0/100
3	Field Blank	—	—	—	—	—	0/100	—
4	Field Blank	—	—	—	—	—	0/100	—
5	Juan Martinez - Excursion / Removeing (Acm) Floor Tile + mastic	½ Face glendale	7:15 AM	7:45 AM	2.5	—	1/100 / ndL 0.036	Qcld 1/100
6	Juan Martinez / Removeing (Acm) Floor Tile + mastic	½ Face glendale	7:45 AM	11:00 AM	2.5	—	0/100 / ndL 0.006	

Rec'd by [illegible] 11/2/06 0830

Company: PETCO
88 Farwell Street
West Haven, Connecticut 06516-0961

Hygienist TRC

Lab # 81709

Type of Project

[✓] Asbestos Abatement
[ ] Lead Abatement

Type of Removal

[ ] Pre-clean
[ ] Pipe
[ ] Boiler
[ ] Breeching
[ ] Ceiling Tile
[ ] Glovebag
[ ] Other
[ ] Set Up
[ ] Fittings
[ ] Tank
[ ] Duct
[ ] Bag Out
[ ] Encapsulation
[ ] Transite Board
[ ] Sprayed-On
[✓] Floor Tile
[ ] Blastrac
[✓] Mastic Removal

Date Collected 11-1-06
Job Name Mystic Ed -Admin Bldg. Porch
Job Number 201-2645
Project Foreman Bob Leach

Calibration Analyst: Lance R. Cotton, 11-1-06
QC Analyst: Lance R. Cotton, 11-1-06
Lab Manager: Henry J. Sciliberto

[ ] Final Clearance Air Test
[✓] Personal Sample
[ ] Work Sample

Sample Number	Worker Name/S.S. Number / Work Function	Respirator Type/Brand	Time On	Time Off	Flow (L/Min)	Pump No.	Fiber Concentration	T.W.A.
7	Field Blank	—	—	—	—	—	0/100	—
8	Field Blank	—	—	—	—	—	0/100	—

Rec'd by: V Williams 11/2/06 0830

Company: PETCO
88 Farwell Street
West Haven, Connecticut 06516-0961

Hygienist TRC

Lab # 81716

Type of Project

☑ Asbestos Abatement ☐ Lead Abatement

Date Collected 11-2-06 / 11-3-06 Storage
Job Name Mystic Ed - Teacher's Dining Room
Job Number 201-2662
Project Foreman Bob Leach

Calibration
Analyst: Lance Cotton 11-3-06
QC Analyst: Lance Cotton 11-3-06
Lab Manager: Henry J. Labiberte

☐ Final Clearance Air Test
☑ Personal Sample
☐ Work Sample

Type of Removal

☐ Pre-clean ☐ Set Up ☐ Encapsulation
☐ Pipe ☐ Fittings ☐ Transite Board
☐ Boiler ☐ Tank ☐ Sprayed-On
☐ Breeching ☐ Duct ☑ Floor Tile
☐ Ceiling Tile ☐ Bag Out ☐ Blastrac
☐ Glovebag ☑ Mastic Removal
☐ Other

Sample Number	Worker Name/S.S. Number / Work Function	Respirator Type/Brand	Time On	Time Off	Flow (L/Min)	Pump No.	Fiber Concentration	T.W.A.
1	Juan Martinez - Excursion / Removing (ACM) Floor Tile	½ Face Glendale	12:30 pm	1:00 pm	2.5	—	0/100 / ~~0.036~~ ✓	QC 0/100
2	Juan Martinez / Removing (ACM) Floor Tile	½ Face Glendale	1:00 pm	2:45	2.5	—	5/100 / (W) 0.010 ~~0.036~~	QC'd 1/100
3	Field Blank	—	—	—	—	—	0/100	—
4	Field Blank	—	—	—	—	—	0/100	—
5	Juan Martinez - Excursion / Removing (ACM) mastic	½ Face Glendale	7:15 am	7:45 am	2.5	—	2/100 / ~~0.036~~ ✓	
6	Juan Martinez / Removing (ACM) mastic	½ Face Glendale	7:45 am	11:00 AM	2.5	—	0/100 / (W) 0.006 ~~0.014~~	

Read by: [illegible] 11/3/06 [illegible]

Company: PETCO
88 Farwell Street
West Haven, Connecticut 06516-0961

Hygienist TRC

Lab # 81716

Type of Project

[x] Asbestos Abatement
[ ] Lead Abatement

Type of Removal

[ ] Pre-clean
[ ] Pipe
[ ] Boiler
[ ] Breeching
[ ] Ceiling Tile
[ ] Glovebag
[ ] Other
[ ] Set Up
[ ] Fittings
[ ] Tank
[ ] Duct
[ ] Bag Out
[ ] Encapsulation
[ ] Transite Board
[ ] Sprayed-On
[x] Floor Tile
[ ] Blastrac
[x] Mastic Removal

Date Collected 11-3-06 Storage Rm
Job Name Mystic Ed. Teachers Dining Rm
Job Number 201-2662
Project Foreman Bob Leach

Analyst: Lance Cotton, 11-3-06
QC Analyst: Lance Cotton, 11-3-06
Lab Manager: Henry J. Laliberte

Calibration
[ ] Final Clearance Air Test
[x] Personal Sample
[ ] Work Sample

Sample Number	Worker Name/S.S. Number / Work Function	Respirator Type/Brand	Time On	Time Off	Flow (L/Min)	Pump No.	Fiber Concentration	T.W.A.
7	Field Blank	—	—	—	—	—	0/100	—
8	Field Blank	—	—	—	—	—	0/100	—

Read by [illegible] 11/3/06 1000

APPENDIX E
TRC CERTIFICATIONS/LICENSES

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT-PROJECT MONITOR

LICENSE NO.
000012
CURRENT THROUGH
07/31/07
VALIDATION NO.
03-348716

LANCE R. COTTON

SIGNATURE

J. Robert Galvin MD, MPH
COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
LANCE R. COTTON

VALIDATION NO.
03-348716

LICENSE NO.
000012

CURRENT THROUGH
07/31/07

PROFESSION
ASBESTOS CONSULTANT-PROJECT MONITOR

SIGNATURE

COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

Lance R. Cotton

has successfully completed the

8 Hour Asbestos Project Monitor Refresher Training

Official record of successful completion of this Course is the DOH2832 Certificate issued on January 3, 2006

conducted by
ATC Associates Inc.
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Edward Kolodziej
Principal Instructor

Gregory J. Morsch
Regional Manager

January 3, 2006
Date of Course

PMR-0720
Certificate Number

January 3, 2007
Expiration Date

January 3, 2006
Examination Date

AMERICAN
INDUSTRIAL
HYGIENE
ASSOCIATION P.O. Box 8390 • 345 White Pond Dr. • Akron, OH 44320 • TEL. (216) 873-AIHA (2442) • FAX (216) 873-1642

LANCE R COTTON
TRC ENVIRONMENTAL CONSULTANTS, INC.
800 CONNECTICUT BOULEVARD
EAST HARTFORD CT 06108

September 25, 1990

You have been entered as an asbestos counter on the AIHA Asbestos Analysts Registry (AAR). In the future, your AAR listing will indicate your performance on AAR quality audit sample analyses. This letter introduces you to some of the procedures related to these quality audit samples, such as how your analytical results should be reported. This letter does not imply final approval of your application, which may still be in review.

Each counter on the Registry has a 4-digit Counter Identification (Counter ID). The organization you work for also has an ID number. (If you move, your new organization should re-enroll you with AIHA.) The following are your ID numbers:

COUNTER ID for LANCE R COTTON: 3750
ORGANIZATION ID for TRC ENVIRONMENTAL CONSULTANTS, INC.: 06108001
ORGANIZATION CONTACT PERSON: PAUL J. HUNT

Quality audit samples will be mailed each quarter along with a form for reporting your results. You will have to enter your Counter ID and Organization ID on the form to properly report your results, so be sure to retain these numbers in a secure place. The enclosed page of instructions gives sample mailing dates, information on reporting results, and performance criteria. Also enclosed is an extra copy of the reporting form which you should keep for possible future use.

The AAR audit samples will be mailed to your organization's contact person. The contact person will receive a set of four samples for every five counters at your address shortly after the sample mailing date. At that time, it is your responsibility to contact that person, obtain a result form, and carefully prepare a wedge from each sample in a set. Performance results are also mailed to the contact person. It is your responsibility to obtain a copy if you want a continuous record of your performance; the AAR reports only your present status (performance over the last two quarters).

If you have questions concerning AAR, call AIHA at 216 873 2442.

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT-INSPECTOR

LANCE R. COTTON

LICENSE NO.
000221
CURRENT THROUGH
07/31/07
VALIDATION NO.
03-348715

SIGNATURE

J. Robert Hilman MD, MPH
COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
LANCE R. COTTON

VALIDATION NO.	LICENSE NO.	CURRENT THROUGH
03-348715	000221	07/31/07

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE

J. Robert Hilman MD, MPH
COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

Lance R. Cotton

has successfully completed the

Asbestos Site Inspector Refresher Training
Asbestos Accreditation Under TSCA Title II
40 CFR Part 763

conducted by

ATC Associates Inc.
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Edward Kolodziej
Principal Instructor

March 23, 2006
Date of Course

March 23, 2007
Expiration Date

Gregory J. Morsch
Regional Manager

SIAR-2132
Certificate Number

March 23, 2006
Examination Date

APPENDIX F
EQUIPMENT CALIBRATION DATA

Low-flow Rotameter Calibration

Rotameter setting	(cc) Trial 1	(cc) Trial 2	(cc) Trial 3	(cc) Trial 4	(cc) Trial 5		LPM
1	1.105	0.978	1.102	0.982	0.959		1.025
2	1.933	1.933	1.933	2.023	1.933		1.951
3	3.034	3.050	3.054	3.054	3.048		3.048
4	4.003	4.014	3.999	3.988	3.956		3.992

Rotameter# L-5

calibrated by [illegible]

date 5/11/06

temperature 22

ameter calibrated using
' ball. Calibrated with
Standard Electronic
Cal DC-1 meter. Model :
-1 Bios International Corp
TRC

*CC = cubic centimeter
*LPM = liters per minute

TRC
Customer-Focused Solutions

TRC Environmental Corporation

Standard Electronic Dry CAL DC-1 meter Model: DC-1 Bios International Corp. S/N TRC W00301

SHEET NO. 2 OF 2

PROJECT NO.

DATE

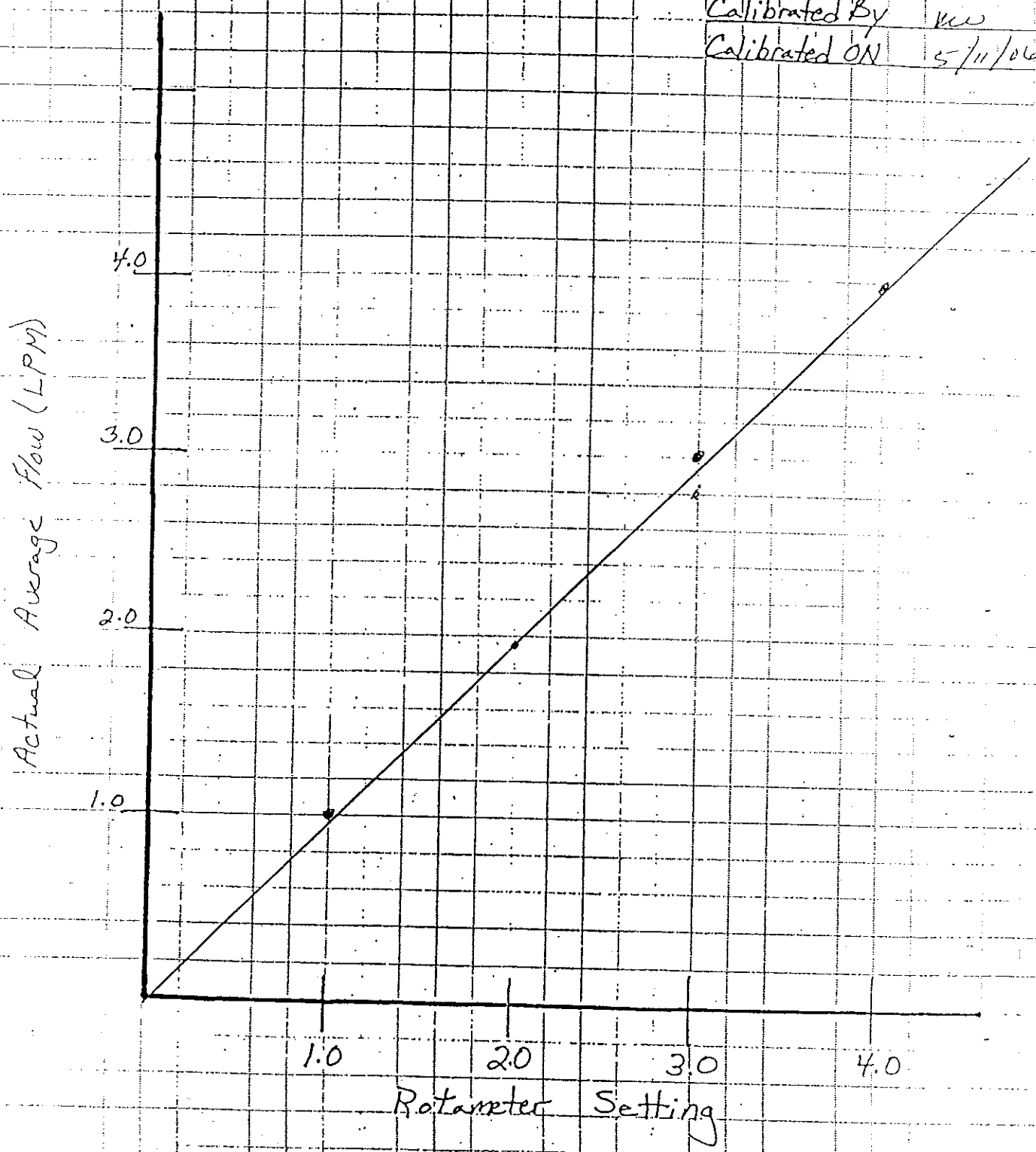
BY

CHK'D

SUBJECT (Low Flow) Rotameter Calibration

(Calibrate to center of ball)

Rotameter # L-5
Calibrated By KW
Calibrated ON 5/11/06



TRC

TRC Environmental

NoTe: Rotameter Calibrated using Center of Ball.

Calibrated with Primary Standard Electronic Dry-CAL DC-1 meter
Model: DC-1 Bios International Corp.
S/N TRC-

SHEET NO. 1 OF 2
PROJECT NO.
DATE
BY
CHK'D

SUBJECT Hi-flow Rotameter Calibration

Rotameter Setting	TRIAL 1	TRIAL 2	TRIAL 3	TRIAL 4	TRIAL 5		Average Flo LPM
4	3.444	3.822	3.846	3.752	3.567	X	3.686
8	7.957	7.878	7.974	7.924	7.965	X	7.940
12	12.02	11.92	11.88	11.89	11.79	X	11.90
16	16.09	16.39	16.26	16.37	16.18	16.30 X	16.27

ROTAMETER # H-10
CALIBRATED BY KW
DATE 5/12/06
TEMPERATURE 23 C

* LPM = Liters Per Minute

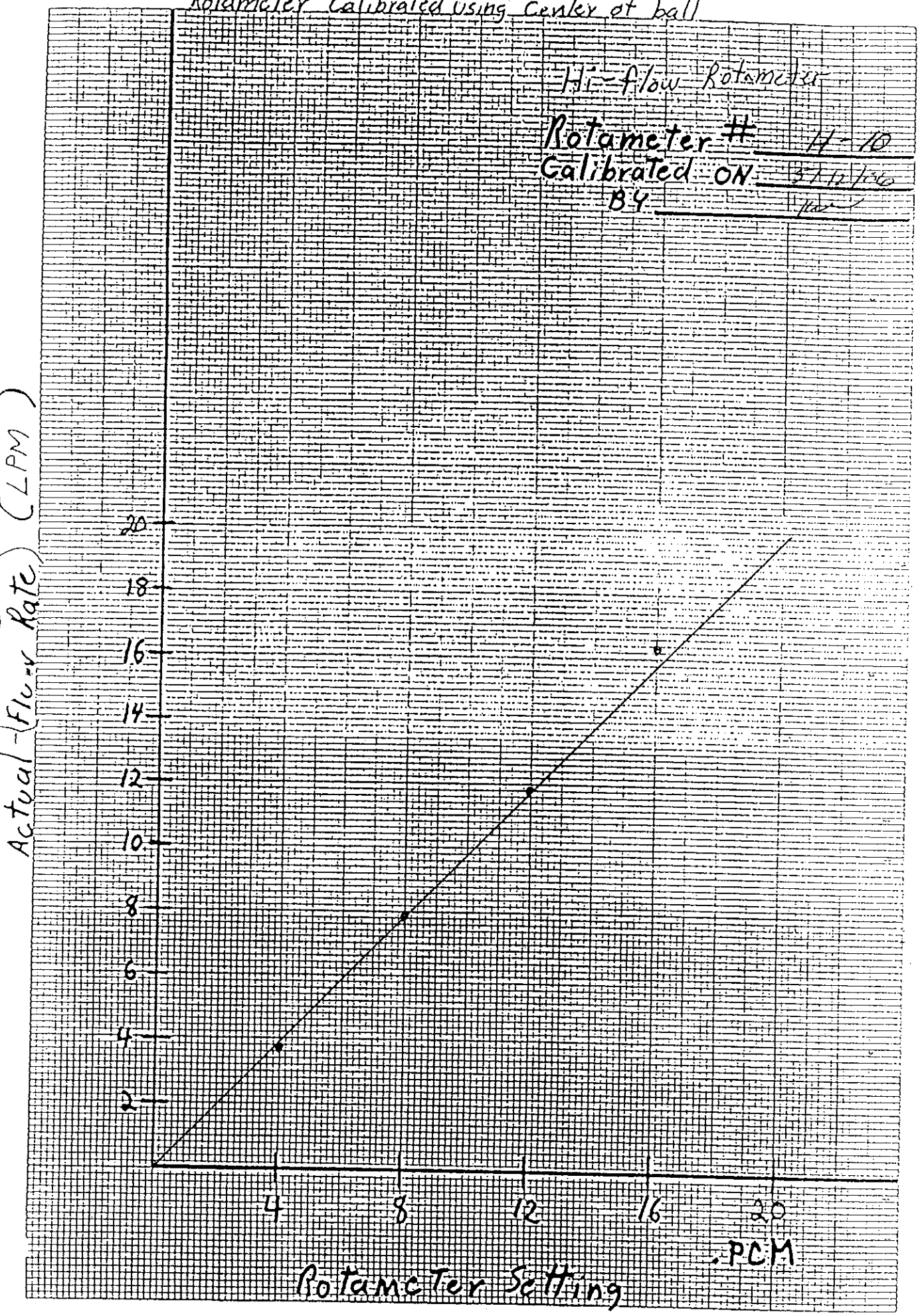
Rotameter calibrated using center of ball

Hi-flow Rotameter

Rotameter # H-10

Calibrated ON 31/12/86

BY [illegible]



AMPAD 22-116 CROSS SECTION 20 SQUARES TO INCH

APPENDIX G
LABORATORY ANALYTICAL CERTIFICATIONS

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

TRC ENVIRONMENTAL CORPORATION

LOCATED AT 21 Griffin Road North IN Windsor, CT 06095

AND REGISTERED IN THE NAME OF Richard A. Love

THIS CERTIFICATE IS ISSUED IN THE NAME OF Henry Laliberte WHO HAS BEEN DESIGNATED BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

ASBESTOS
AIR-FIBER COUNTING - PCM
BULK IDENTIFICATION - PLM

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES December 31, 2007 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 22ND DAY OF DECEMBER 2005

Registration No.

PH- 0426

Ellen J. Blaschinski

CHIEF, REGULATORY SERVICES BRANCH

The American Industrial Hygiene Association

CELEBRATING 30 Thirty Years of AIHA Accrediting Labs

SOUND DATA SMART DECISIONS

1974 – 2004

acknowledges that

TRC Environmental Corporation

21 Griffin Road North, Windsor, CT 06095

Laboratory ID: 100122

has fulfilled the requirements of the AIHA Laboratory Quality Assurance Programs (LQAP), thereby, conforming to the ISO/IEC 17025:1999 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories.* The above named laboratory, along with all premises from which key activities are performed, as listed above, have been accredited by AIHA in the following:

ACCREDITATION PROGRAMS

✓	**INDUSTRIAL HYGIENE**	Accreditation Expires: 02/01/2008
☐	**ENVIRONMENTAL LEAD**	Accreditation Expires:
☐	**ENVIRONMENTAL MICROBIOLOGY**	Accreditation Expires:
☐	**FOOD**	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation.** Continued accreditation is contingent upon successful on-going compliance with LQAP requirements. This certificate is not valid without the attached **Scope of Accreditation.**

David Kahane, CIH
Chairperson, Analytical Accreditation Board

Roy M. Buchan, DrPH, CIH
President, AIHA

Date Issued: 2/24/2006

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:1999

NVLAP LAB CODE: 101424-0

TRC Environmental Corporation

Windsor, CT

is recognized by the National Voluntary Laboratory Accreditation Program for conformance with criteria set forth in NIST Handbook 150:2001 and all requirements of ISO/IEC 17025:1999.
Accreditation is granted for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

2006-07-01 through 2007-06-30

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology

NVLAP-01C (REV. 2005-05-19)

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

PROSCIENCE ANALYTICAL SERVICES, INC.

LOCATED AT 22 Cummings Park IN Woburn, MA 01801

AND REGISTERED IN THE NAME OF Adrian Stanca

THIS CERTIFICATE IS ISSUED IN THE NAME OF Adrian Stanca, Director WHO HAS BEEN DESIGNATED

Martha Kneizys, Co-Director (Chemistry)

BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

WASTEWATER, SOLID WASTE/SOIL

Examination for:
TRACE METALS

ASBESTOS
Bulk Identification (PLM)
Air-Fiber Counting (PCM + TEM)
Water (TEM)

PAINT, SOIL, DUST WIPES
Examination for:
LEAD

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES DECEMBER 31, 2006 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 26th DAY OF MAY 2005

PH-0209

Ellen J. Blaschinski

DIRECTOR, ENVIRONMENTAL HEALTH SECTION

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:1999

NVLAP LAB CODE: 200090-0

ProScience Analytical Services, Inc.

Woburn, MA

is recognized by the National Voluntary Laboratory Accreditation Program for conformance with criteria set forth in NIST Handbook 150:2001 and all requirements of ISO/IEC 17025:1999.
Accreditation is granted for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

2006-01-01 through 2006-12-31

Effective dates

For the National Institute of Standards and Technology

NVLAP-01C (REV. 2005-05-19)

APPENDIX H
ASBESTOS BULK SAMPLE ANALYSIS AND CHAIN-OF-CUSTODY DATA

TRC ENVIRONMENTAL CORPORATION
Environmental Chemistry Laboratory
21 Griffin Road North
Windsor, CT 06095
(860) 298-6308

BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Public Works

Site: Mystic Education Center, 240 Oral School Road, Mystic, CT
Lab Log #: 32994
Project #: 43500-5060-00003
Date Received: 11/01/06
Date Analyzed: 11/02/06

RESULTS

Sample No.	Color	Homogeneous	Multi-Layered	Layer No.	Other Matrix Mat'ls	Asbestos %	Asbestos Type
01	White	Yes	Yes	--	--	ND<1%	None
02	White	Yes	Yes	--	--	ND<1%	None
03	White	Yes	Yes	--	--	ND<1%	None
04	White (skim coat)	No	Yes	1	--	ND<1%	None
04	Grey (plaster)	No	Yes	2	--	ND<1%	None
05	White (skim coat)	No	Yes	1	--	ND<1%	None
05	Grey (plaster)	No	Yes	2	--	ND<1%	None
06	White (skim coat)	No	Yes	1	--	ND<1%	None
06	Grey (plaster)	No	Yes	2	--	ND<1%	None

Reporting limit- asbestos present at 1%
ND<1% - asbestos was not detected
Trace- asbestos was observed at level of less than 1%

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, negative results must be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation (1982), and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey which utilizes polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2007. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through February 1, 2008. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and the QC data related to the samples is available upon written request from the client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

Analyst: Maureen Grissom

QC Analyst: Kathleen Williamson

Reviewed by: _____
Laboratory Analyst

Approved Signatory: Henry J. Laliberte
Henry J. Laliberte
Laboratory Manager

Date Issued: 11/5/06

TRC

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6399

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

Edition: September 2005
Supersede Previous Edition

LAB ID #: 32994

PROJECT NUMBER	PROJECT NAME
43500-5060-00003	CT DPW 240 Oral School Road Mystic Edu. Ctr. Mystic, CT

INSPECTOR: (SIGNATURE)	(PRINTED)
Lance R. Cotton	Lance R. Cotton

TURNAROUND TIME								
PLM:		24hr		48hr		3day		5day
TEM:		24hr		48hr		3day		5day

FIELD SAMPLE NUMBER	DATE	TIME	TYPE: COMP	TYPE: GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM NY NOB 198.1 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
01	11/1/06	0930		X	samples taken in foyer near men's & women's restrooms	X					skimcoat
02	↓	↓		X	↓						↓
03	↓	↓		X	↓						↓
04	↓	↓		X	samples taken in sitting room	X					skimcoat/plaster – please analyze sample
05	↓	↓		X	↓						↓
06	↓	↓		X	↓						↓

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
Lance R. Cotton	11/1/06	11/01/06			
(Printed) Lance R. Cotton	Time: 1415	(Printed) Maureen Grisson 11/2/06	(Printed)	Time:	(Printed)

Remarks: Call me w/ results (774) 230-3354
Thanks, Lance

Condition of Samples: _____
Acceptable: Yes _____ No _____
Comments:

APPENDIX I
ASBESTOS AIR SAMPLE ANALYSIS AND CHAIN-OF-CUSTODY DATA

AIR SAMPLE ANALYSIS REPORT

CLIENT: CT DPW

SITE: 240 Oral School Road Admin.

ADDRESS: Administration Bldg. / ~~Gifts~~ Bldg. Cafeteria
Mystic, CT
Mystic Educational Center

CONTACT/NAME: Don Page

PHONE NO.: (860) 298-6222

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

PROJECT NO.: 43500-5060-00003 DATE: 10/25/06 PG 1 OF 1

SAMPLER PRINT: Lance Cotton SIGNATURE: Lance Cotton

ANALYST PRINT: Lance Cotton SIGNATURE: Lance Cotton 10-26-06

QC ANALYST PRINT: Lance Cotton [signature] SIGNATURE: Lance Cotton 10-26-06 [signature]

LAB SUPERVISOR PRINT: [signature] SIGNATURE:

QC MANAGER PRINT: SIGNATURE: Henry J. [signature]

ROTOMETER NO.: L-5 DATE OF CALIBRATION: 5/11/06 LAB NO.: 33002

SAMPLE TYPE: X PCM ____ TEM ____ OTHER (SPECIFY)

ANALYSIS METHOD: X NIOSH 7400 ____ AHERA ____ OTHER (SPECIFY)
Issue 2 8/15/94

QC - 4/100 [signature]

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Grid 125/100 line

SAMPLE NO.	01-Mystic	02-Mystic	03-Mystic	04-Mystic	05-Mystic	06-Mystic	07-Mystic
SAMPLING LOCATION/ COMMENTS	1/S crawl space during asb. debris removal	0/S crawl space in hallway	1/S crawl space during asb. debris removal	0/S crawl space area in hallway	FB	FB	prep - ~~gifts~~ Admin. bldg. dining area Tents 1,2 ~~3~~ fixing plaster/skim coats on walls
TYPE OF SAMPLE	4	4	4	4			2
PUMP NUMBER							
START TIME/STOP TIME	1000/1317	1000/1317	0726/1133	0726/1135			1318/1441
TOTAL TIME (min)	197	197	247	247			83
FLOW RATE	1.85/1.85	3.0/2.1	3.0/3.0	1.85/1.85			2.5/2.5
TOTAL VOLUME (l)	364	502	741	457			208
FB/FL — BFB/BFL	18/100	8/100	5/100	1/100	0/100	0/100	2/100
AIRBORNE FIBER CONC. (fibers/cc)	0.024 ✓	0.008 ✓	ND< 0.004 ✓	ND< 0.006 ✓	—	—	ND< 0.013 ✓

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: Lance Cotton DATE: 10/26/06 TIME: 1200 (noon)

RECEIVED BY: [signature] DATE: 11/2/06 TIME: 0830

RELINQUISHED BY: ____ DATE: ____ TIME: ____

RECEIVED BY: ____ DATE: ____ TIME: ____

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # 14538 AIHA # 6940 PAT # 6940 NVLAP # 101424

TRC
Customer-Focused Solutions

Supersedes Previous Edition.

AIR SAMPLE ANALYSIS REPORT

CLIENT: CT DPW

SITE: 240 Oral School Road

ADDRESS: ~~Girls~~ Admin re Building - Cafeteria
Mystic, CT
Mystic Educational Center

CONTACT/NAME: Don LePage

PHONE NO.: (860) 298-6222

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

PROJECT NO.: 43500-5060-00003 DATE: ~~10/27~~ Stat 10/30/06 PG 1 OF 2

SAMPLER PRINT: Lance Cotton SIGNATURE: Lance Cotton DATE 10-30-06

ANALYST PRINT: Lance Cotton SIGNATURE: Lance Cotton DATE ANALYZED 10-30-06

QC ANALYST PRINT: Lance Cotton SIGNATURE: Lance Cotton DATE ANALYZED 10-30-06

LAB SUPERVISOR PRINT: H. LaLiberte SIGNATURE: Henry J. LaLiberte DATE ISSUED

QC MANAGER PRINT: SIGNATURE:

ROTOMETER NO.: L-5/H-10 DATE OF CALIBRATION: 5/12/06 LAB NO.: 33002

SAMPLE TYPE: X PCM TEM OTHER (SPECIFY)

ANALYSIS METHOD: X NIOSH 7400 Issue 2 8/15/94 AHERA OTHER (SPECIFY)

QC-0/100 Qc'd 6/100 re

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	08-Mystic	09-Mystic	10-Mystic	11-Mystic	12-Mystic	13-Mystic	14-Mystic	15-Mystic
SAMPLING LOCATION/ COMMENTS	prep Tents 1,2 & 3 fixing plaster skim coats	1/S Tent #1 containment during patching of skim/plaster	0/S Tent #1 containment on top of decon	~~Girls~~ Admin re Building - Cafeteria fixing skim coat & plaster on walls Tent #1 PCM Clearances				
TYPE OF SAMPLE	2	~~4~~ 3 re	4	6	6	6	6	6
PUMP NUMBER								
START TIME/STOP TIME	0721/1301	0952/1140	0952/1140	1145/1305	1145/1305	1145/1305	1145/1305	1145/1305
TOTAL TIME (min)	340	108	108	80	80	80	80	80
FLOW RATE	2.5/2.45	3.2/3.2	1.55/1.5	15/15	15/15	15/15	15/15	15/15
TOTAL VOLUME (l)	843	346	165	1200	1200	1200	1200	1200
FB/FL — BFB/BFL	8/100	2/100	2/100	5/100	5/100	2.5/100	2/100	3/100
AIRBORNE FIBER CONC. (fibers/cc)	0.005	nd<0.008	nd<0.016	nd<0.002	nd<0.002	nd<0.002	nd<0.002	nd<0.002

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: Lance Cotton DATE: 10/30/06 TIME: 1345 pm

RECEIVED BY: [signature] DATE: 11/2/06 TIME: 0830

RELINQUISHED BY: DATE TIME:

RECEIVED BY: DATE: TIME:

LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # 14538 AIHA/PAT # 100122 NVLAP # 101424

Condition of Sample: OK
Acceptable: Y ✓ N
Comments:

TRC

AIR SAMPLE ANALYSIS REPORT

CLIENT: CT DPW

SITE: 240 Oral School Road

ADDRESS: ~~Civil's Dir~~ Admin. ne Building - Cafeteria
Mystic, CT
Mystic Educational Center

CONTACT/NAME: Don LePage

PHONE NO.: (860) 298-6222

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

PROJECT NO.: 43500-5060-00003 DATE: 10/30/06 PG 1 OF 1

SAMPLER PRINT: Lance Cotton SIGNATURE: Lance Cotton 10-30-06

ANALYST PRINT: Lance Cotton SIGNATURE: Lance Cotton 10-30-06

QC ANALYST PRINT: Lance Cotton [signature] SIGNATURE: Lance Cotton 10-30-06

LAB SUPERVISOR PRINT: [signature] SIGNATURE: Henry J. [signature]

QC MANAGER PRINT: SIGNATURE:

ROTOMETER NO.: L-5/H-10 DATE OF CALIBRATION: 5/12/06 LAB NO.: 33002

SAMPLE TYPE: X PCM ____ TEM ____ OTHER (SPECIFY)

ANALYSIS METHOD: X NIOSH 7400 ____ AHERA ____ OTHER (SPECIFY)
Issue 2 8/15/94

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	16-Mystic	17-Mystic					
SAMPLING LOCATION/ COMMENTS	FB	FB					
TYPE OF SAMPLE							
PUMP NUMBER							
START TIME/STOP TIME	/	/	/	/	/	/	/
TOTAL TIME (min)							
FLOW RATE	/	/	/	/	/	/	/
TOTAL VOLUME (l)							
$\frac{FB}{FL} - \frac{BFB}{BFL}$	0/100	0/100					
AIRBORNE FIBER CONC. (fibers/cc)	—	—					

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: Lance Cotton DATE: 10/30/06 TIME: 1345 pm

RECEIVED BY: [signature] DATE: 11/3/06 TIME: 0830

RELINQUISHED BY: ____ DATE: ____ TIME: ____

RECEIVED BY: ____ DATE: ____ TIME: ____

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # 14538 AIHA # 6940 PAT # 6940 NVLAP # 101424

TRC
Customer-Focused Solutions

AIR SAMPLE ANALYSIS REPORT

PROJECT NO.: 43500-5060-00003 DATE: 10/30/06 PG 1 OF 3

CLIENT: CT DPW

SITE: 240 Oral School Road - ~~Civil~~ Admin Bldg. cafeteria

ADDRESS: Mystic, CT
Mystic Education Center

CONTACT/NAME: Don LePage

PHONE NO.: (860) 298-6222

SAMPLER PRINT: Lance Cotton SIGNATURE: Lance Cotton 10-30-06

ANALYST PRINT: Lance Cotton SIGNATURE: Lance Cotton 10-30-06

QC ANALYST PRINT: Lance Cotton SIGNATURE: Lance Cotton 10-30-06

LAB SUPERVISOR PRINT: H. Lakhani SIGNATURE: Henry J. Lakhani

QC MANAGER PRINT: SIGNATURE:

ROTOMETER NO.: L-5/H-10 DATE OF CALIBRATION: 5/12/06 LAB NO.: 33002

SAMPLE TYPE: X PCM TEM OTHER (SPECIFY)

ANALYSIS METHOD: X NIOSH 7400 Issue 2 8/15/94 AHERA OTHER (SPECIFY)

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	18-Mystic	19-Mystic	20-Mystic	21-Mystic	22-Mystic	23-Mystic	24-Mystic
SAMPLING LOCATION/ COMMENTS	ils containment Tent #3 repair of skimcoat/plaster on wall	ols containment on top of decon Tent #2	ils containment Tent #2 repair of skimcoat/plaster on wall	ols containment Tent #2 on top of decon	4 Mystic Edu. Ctr. - Admin Bldg. - cafeteria 4 repair of skimcoat/plaster on wall 4 PCM clearances	4 Tent #2	1
TYPE OF SAMPLE	3	4	3	4	6	6	6
PUMP NUMBER							
START TIME/STOP TIME	0733/0957	0733/0957	0745/1000	0745/1000	0855/1015	0855/1015	0855/1015
TOTAL TIME (min)	144	144	135	135	80	80	80
FLOW RATE	3.2/3.15	2.4/2.4	1.9/1.9	1.5/1.5	15/15	15/15	15/15
TOTAL VOLUME (l)	458	350	257	203	1200	1200	1200
FB/FL – BFB/BFL	24/100	3/100	11/100	1.5/100	3.5/100	4/100	1/100
AIRBORNE FIBER CONC. (fibers/cc)	0.026 ~~ND<0.006~~	ndL0.006	0.021	ndL0.013	ndL0.002	ndL0.002	ndL0.002

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: Lance Cotton DATE: 10/30/06 TIME: 1030 am

RECEIVED BY: DATE: 11/2/06 TIME: 0830

RELINQUISHED BY: DATE: TIME:

RECEIVED BY: DATE: TIME:

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # 14538 AIHA # 6940 PAT # 6940 NVLAP # 101424

TRC
Customer-Focused Solutions

AIR SAMPLE ANALYSIS REPORT

CLIENT: CT DPW

SITE: 240 Oral School Road - ~~Girls~~ Admin. Bldg.

ADDRESS: Mystic Education Center
Mystic, CT

CONTACT/NAME: Don LePage

PHONE NO.: (860) 298-6222

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

PROJECT NO.: 43500-5060-00003 DATE: 10/30/06 PG 2 OF 3

SAMPLER PRINT: Lance Cotton SIGNATURE: Lance Cotton 10-30-06

ANALYST PRINT: Lance Cotton SIGNATURE: Lance Cotton 10-30-06

QC ANALYST PRINT: Lance Cotton SIGNATURE: Lance Cotton 10-30-06

LAB SUPERVISOR PRINT: [signature] SIGNATURE: [signature]

QC MANAGER PRINT: SIGNATURE: [signature]

ROTOMETER NO.: H-10 DATE OF CALIBRATION: 5/12/06 LAB NO.: 33002

SAMPLE TYPE: X PCM ____ TEM ____ OTHER (SPECIFY)

ANALYSIS METHOD: X NIOSH 7400 ____ AHERA ____ OTHER (SPECIFY)
Issue 2 8/15/94

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	25-Mystic	26-Mystic	27-Mystic	28-Mystic	29-Mystic	30-Mystic	31-Mystic
SAMPLING LOCATION/ COMMENTS	Mystic Edu. Ctr. - ~~Girls~~ Admin. Bldg. - Cafeteria repair of skimcoat/plaster on wall Tent #2 PCM clearances		FB	FB	Mystic Edu. Ctr. ~~Girls~~ Admin. Bldg. - Cafeteria Tent #3 repair of skimcoat/plaster on wall PCM clearances		
TYPE OF SAMPLE	6	6			6	6	6
PUMP NUMBER							
START TIME/STOP TIME	0855/1015	0855/1015			1021/1141	1021/1141	1021/1141
TOTAL TIME (min)	80	80			80	80	80
FLOW RATE	15/15	15/15			15/15	15/15	15/15
TOTAL VOLUME (l)	1200	1200			1200	1200	1200
$\frac{FB}{FL} - \frac{BFB}{BFL}$	5/100	2/100	0/100	0/100	1/100	3/100	7.5/100
AIRBORNE FIBER CONC. (fibers/cc)	nd<0.002	nd<0.002			nd<0.002	nd<0.002	0.003

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: Lance Cotton DATE: 10/30/06 TIME: 1200 (noon)

RECEIVED BY: [signature] DATE: 11/2/06 TIME: 0830

RELINQUISHED BY: ____ DATE: ____ TIME: ____

RECEIVED BY: ____ DATE: ____ TIME: ____

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # 14538 AIHA # 6940 PAT # 6940 NVLAP # 101424

TRC
Customer-Focused Solutions

AIR SAMPLE ANALYSIS REPORT

CLIENT: CT DPW

SITE: 240 Oral School Road - ~~Girls~~ Admin. Building

ADDRESS: Mystic Education Ctr. Cafeteria
Mystic, CT

CONTACT/NAME: Don LePage

PHONE NO.: (860) 298-6222

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

PROJECT NO.: 4350-5060-00003 DATE: 10/30/06 PG 3 OF 3

SAMPLER PRINT: Lance Cotton SIGNATURE: Lance Cotton 10-30-06

ANALYST PRINT: Lance Cotton SIGNATURE: Lance Cotton 10-30-06

QC ANALYST PRINT: Lance Cotton SIGNATURE: Lance Cotton 10-30-06

LAB SUPERVISOR PRINT: H. Lalibarte SIGNATURE: Henry J. Lalibarte

QC MANAGER PRINT: SIGNATURE:

ROTOMETER NO.: H-10 DATE OF CALIBRATION: 5/12/06 LAB NO.: 33002

SAMPLE TYPE: X PCM ____ TEM ____ OTHER (SPECIFY)

ANALYSIS METHOD: X NIOSH 7400 ____ AHERA ____ OTHER (SPECIFY)
Issue 2 8/15/94

Qc'd 3/100 me Qc-6/100 me

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	32-Mystic	33-Mystic	34-Mystic	35-Mystic			
SAMPLING LOCATION/ COMMENTS	Admin. ~~Girls~~ Bldg. Mystic Edu. Ctr. Cafeteria - Test #3 ~~32~~ me ← repair of skimcoat/plaster on wall. ~~#~~ pam clearances →		FB	FB			
TYPE OF SAMPLE	6	6					
PUMP NUMBER							
START TIME/STOP TIME	1021/1041	1021/1041	/	/	/	/	/
TOTAL TIME (min)	80	80					
FLOW RATE	15/15	15/15	/	/	/	/	/
TOTAL VOLUME (l)	1200	1200					
FB/FL — BFB/BFL	4/100	7/100	0/100	0/100			
AIRBORNE FIBER CONC. (fibers/cc)	ND<0.002 ✓	0.003 ✓	—	—			

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: Lance Cotton DATE: 10/30/06 TIME: 1200 (noon)

RECEIVED BY: [signature] DATE: 11/3/06 TIME: 0830

RELINQUISHED BY: ____ DATE: ____ TIME: ____

RECEIVED BY: ____ DATE: ____ TIME: ____

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # 14538 AIHA # 6940 PAT # 6940 NVLAP # 101424

TRC
Customer-Focused Solutions

AIR SAMPLE ANALYSIS REPORT

PROJECT NO.: 43500-5060-00003 DATE: 10/31/06 PG 1 OF 1

CLIENT: CT DPW

SITE: 240 Oral School Road - Admin. Allion Bldg. - porch

ADDRESS: Mystic Educational Center Mystic CT

CONTACT/NAME: Don LaPage

PHONE NO.: (860) 298-6222

SAMPLER PRINT: Lance Cotton SIGNATURE: Lance Cotton 11-1-06

ANALYST PRINT: Lance Cotton SIGNATURE: Lance Cotton 11-1-06

QC ANALYST PRINT: Lance Cotton SIGNATURE: Lance Cotton 11-1-06

LAB SUPERVISOR PRINT: [illegible] SIGNATURE: [illegible]

QC MANAGER PRINT: SIGNATURE:

ROTOMETER NO.: 1-5 DATE OF CALIBRATION: 5/11/06 LAB NO.: 33002

SAMPLE TYPE: X PCM TEM OTHER (SPECIFY)

ANALYSIS METHOD: X NIOSH 7400 Issue 2 8/15/94 AHERA OTHER (SPECIFY)

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Qld 7/100 mc

SAMPLE NO.	36-Mystic	37-Mystic	38-Mystic	39-Mystic	40-Mystic	41-Mystic	
SAMPLING LOCATION/ COMMENTS	prep - Admin. Allion Bldg. porch	o/s containment during rug & tile removal Allion porch	o/s containment on top of decon	o/s containment in hallway near conference room	PB	PB	
TYPE OF SAMPLE	2	3	4	4			
PUMP NUMBER							
START TIME/STOP TIME	0723 / 1045	1050 / 1138	1050/1138	1050 / 1138			
TOTAL TIME (min)	202	48	48	48			
FLOW RATE	1.6 / 1.5	1.9 / 1.85	2.5 / 2.45	1.5/1.5			
TOTAL VOLUME (l)	313	90	119	72			
FB/FL — BFB/BFL	10/100	10/100	2/100	0.5/100	0/100	0/100	
AIRBORNE FIBER CONC. (fibers/cc)	0.016	0.054	ndL0.023	ndL0.037	—	—	

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: Lance Cotton DATE: 10/31/06 TIME: 1200 (noon)

RECEIVED BY: [illegible] DATE: 11/2/06 TIME: 0830

RELINQUISHED BY: DATE: TIME:

RECEIVED BY: DATE: TIME:

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # 14538 AIHA # 6940 PAT # 6940 NVLAP # 101424

TRC
Customer-Focused Solutions

AIR SAMPLE ANALYSIS REPORT

CLIENT: CT DPW

SITE: 240 Oral School Road - Admin. Bldg. Allion porch

ADDRESS: Mystic Educational Centr
Mystic, CT

CONTACT/NAME: Don LePage

PHONE NO.: (860) 298-6222

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

PROJECT NO.: 43500-5060-00003 DATE: 11/1/06 PG 1 OF 2

SAMPLER PRINT: Lance Cotton SIGNATURE: Lance Cotton 11-1-06

ANALYST PRINT: Lance Cotton SIGNATURE: Lance Cotton 11-1-06

QC ANALYST PRINT: Lance Cotton Williams SIGNATURE: Lance Cotton 11-1-06

LAB SUPERVISOR PRINT: H. Lalibarte SIGNATURE: Henry J. Lalibarte

QC MANAGER PRINT: SIGNATURE:

ROTOMETER NO.: L-5/H-10 DATE OF CALIBRATION: 5/12/06 LAB NO.: 33002

SAMPLE TYPE: X PCM TEM OTHER (SPECIFY)

ANALYSIS METHOD: X NIOSH 7400 Issue 2 8/15/94 AHERA OTHER (SPECIFY)

QC-1/100

TYPE OF SAMPLE: 1. Background 2. Pre 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	42-Mystic	43-Mystic	44-Mystic	45-Mystic	46-Mystic	47-Mystic	48-Mystic
SAMPLING LOCATION/ COMMENTS	1's containment during mastic removal	0's containment on top of decon	0's containment in hallway near conf. room	← Admin. Bldg. - Allion Porch removal of tile/mastic ← PCM clearances			
TYPE OF SAMPLE	3	4	4	6	6	6	6
PUMP NUMBER							
START TIME/STOP TIME	0728/0840	0728/0842	0728/0842	0840/1000	0840/1000	0840/1000	0840/1000
TOTAL TIME (min)	72	74	74	80	80	80	80
FLOW RATE	3.2/3.1	3.1/3.05	1.5/1.4	15/15	15/15	15/15	15/15
TOTAL VOLUME (l)	227	228	107	1200	1200	1200	1200
FB/FL — BFB/BFL	59.5/100	2.5/100	0/100	14/100	21/100	19.5/100	18/100
AIRBORNE FIBER CONC. (fibers/cc)	0.129*	0.012	nd<0.025	0.006	0.009	0.008	0.007

STANDARDS trug fibers

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: Lance Cotton DATE: 10/1/06 TIME: 1015 am

RECEIVED BY: [illegible] DATE: 11/2/06 TIME: 08:30

RELINQUISHED BY: DATE: TIME:

RECEIVED BY: DATE: TIME:

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # 14538 AIHA # 6940 PAT # 6940 NVLAP # 101424

TRC
Customer-Focused Solutions

AIR SAMPLE ANALYSIS REPORT

CLIENT: CT DPW

SITE: 240 Oral School Rd. Admin. Bldg Allion Porch

ADDRESS: Mystic Educational Ctr. Mystic, CT

CONTACT/NAME: Don LePage

PHONE NO.: (860) 298-6222

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

PROJECT NO.: 43500-5060-00003 DATE: 11/1/06 PG 2 OF 2

SAMPLER PRINT: Lance Cotton SIGNATURE: Lance Cotton 11-1-06

ANALYST PRINT: Lance Cotton SIGNATURE: Lance Cotton 11-1-06

QC ANALYST PRINT: Lance Cotton SIGNATURE: Lance Cotton 11-1-06

LAB SUPERVISOR PRINT: H. [illegible] SIGNATURE:

QC MANAGER PRINT: SIGNATURE: Henry J. [illegible]

ROTOMETER NO.: H-10 DATE OF CALIBRATION: 5/12/06 LAB NO.: 33002

SAMPLE TYPE: X PCM ____ TEM ____ OTHER (SPECIFY)

ANALYSIS METHOD: X NIOSH 7400 ____ AHERA ____ OTHER (SPECIFY)
Issue 2 8/15/94

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	49-Mystic	50-Mystic	51-Mystic				
SAMPLING LOCATION/ COMMENTS	Admin. Bldg. & Allion Porch & titelmastic removal PCM clearance	FB	FB				
TYPE OF SAMPLE	6						
PUMP NUMBER							
START TIME/STOP TIME	0840/1000			/	/	/	/
TOTAL TIME (min)	80						
FLOW RATE	15/15			/	/	/	/
TOTAL VOLUME (l)	1200						
$\frac{FB}{FL} - \frac{BFB}{BFL}$	12/100	0/100	0/100				
AIRBORNE FIBER CONC. (fibers/cc)	0.005	—	—				

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: Lance Cotton DATE: 11/1/06 TIME: 1015 am

RECEIVED BY: [illegible] DATE: 11/2/06 TIME: 0830

RELINQUISHED BY: ____ DATE: ____ TIME: ____

RECEIVED BY: ____ DATE: ____ TIME: ____

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # 14538 AIHA # 6940 PAT # 6940 NVLAP # 101424

TRC
Customer-Focused Solutions

AIR SAMPLE ANALYSIS REPORT

PROJECT NO.: 43500-5060-00003 DATE: 11/2/06-11/3/06 PG 9 OF 1

CLIENT: CT DAW

SITE: 240 Oral School Road - Dining Area storage Area

ADDRESS: Mystic Educational Center
Mystic, CT

CONTACT/NAME: Don LePage

PHONE NO.: (860) 298-6222

SAMPLER PRINT: Lance Cotton SIGNATURE: Lance Cotton 11-3-06

ANALYST PRINT: Lance Cotton SIGNATURE: Lance Cotton 11-3-06

QC ANALYST PRINT: Lance Cotton SIGNATURE: Lance Cotton 11-3-06

LAB SUPERVISOR PRINT: H. Lalibarte SIGNATURE: Henry J. Lalibarte

QC MANAGER PRINT: SIGNATURE:

ROTOMETER NO.: L-5 DATE OF CALIBRATION: LAB NO.: 33009

SAMPLE TYPE: X PCM TEM OTHER (SPECIFY)

ANALYSIS METHOD: X NIOSH 7400 Issue 2 8/15/94 AHERA OTHER (SPECIFY)

QC - 1/100 ...

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Qr'd 16/100 ...

SAMPLE NO.	52-Mystic	53-Mystic	54-Mystic	55-Mystic	56-Mystic	57-Mystic	58-Mystic
SAMPLING LOCATION/ COMMENTS	prep dining area (storage area) removal of tile/mastic	i/s containment during removal of 9"x9" tile ~~off~~ storage area	o/s containment on top of decon storage area	i/s containment during mastic removal storage area	o/s containment on top of decon storage area	FB	FB
TYPE OF SAMPLE	2	3	4	3	4		
PUMP NUMBER							
START TIME/STOP TIME	0740 / 1041	1043/1329	1043/1329	0712 / 1029	0712/1029		
TOTAL TIME (min)	181	166	166	197	197		
FLOW RATE	1.5 / 1.3	3.2/3.15	1.9 / 1.85	1.9 / 1.85	1.3 / 1.3		
TOTAL VOLUME (l)	253	528	312	370	256		
FB/FL - BFB/BFL	11/100	3/100	0/100	19/100	0/100	0/100	0/100
AIRBORNE FIBER CONC. (fibers/cc)	0.021 ✓	nd < 0.005 *	nd < 0.009 ✓	0.025 ✓	~~0.011~~ nd < 0.011	—	—

STANDARDS * very heavy particulate - fibers maybe obstructed

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: Lance Cotton DATE: 11/3/06 TIME: 1030 am

RECEIVED BY: [signature] DATE: 11/3/06 TIME: 1300

RELINQUISHED BY: DATE: TIME:

RECEIVED BY: DATE: TIME:

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # 14538 AIHA # 6940 PAT # 6940 NVLAP # 101424

TRC
Customer-Focused Solutions

AIR SAMPLE ANALYSIS REPORT

CLIENT: CT DPW

SITE: 290 Oral School Road - Storage area in Dining Area

ADDRESS: Mystic Educational Center
Mystic, CT

CONTACT/NAME: Don LePage

PHONE NO.: (860) 298-6222

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

PROJECT NO.: 43500-5060-00003 DATE: 11-3-06 PG 1 OF 1

SAMPLER PRINT: Lance Cotton SIGNATURE: Lance Cotton 11-3-06

ANALYST PRINT: Lance Cotton SIGNATURE: Lance Cotton 11-3-06

QC ANALYST PRINT: Lance Cotton SIGNATURE: Lance Cotton 11-3-06

LAB SUPERVISOR PRINT: H. [illegible] SIGNATURE: Henry J. [illegible]

QC MANAGER PRINT: SIGNATURE:

ROTOMETER NO.: H-10 DATE OF CALIBRATION: LAB NO.: 33009

SAMPLE TYPE: X PCM TEM OTHER (SPECIFY)

ANALYSIS METHOD: X NIOSH 7400 Issue 2 8/15/94 AHERA OTHER (SPECIFY)

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Qc'd 3.5/100 mc

SAMPLE NO.	59-Mystic	60-Mystic	61-Mystic	62-Mystic	63-Mystic	64-Mystic	65-Mystic
SAMPLING LOCATION/ COMMENTS	Admin. Bldg. - Storage Area in Dining Area removal of floor tile/mastic PCM clearances					FB	FB
TYPE OF SAMPLE	6	6	6	6	6		
PUMP NUMBER							
START TIME/STOP TIME	1025/1145	1025/1145	1025/1145	1025/1145	1025/1145		
TOTAL TIME (min)	80	80	80	80	80		
FLOW RATE	15/15	15/15	15/15	15/15	15/15		
TOTAL VOLUME (l)	1200	1200	1200	1200	1200		
$\frac{FB}{FL} - \frac{BFB}{BFL}$	2/100	8/100	7/100	7.5/100	3.5/100	0/100	0/100
AIRBORNE FIBER CONC. (fibers/cc)	ndc0.002	0.003	0.003	0.003	ndc0.002	—	—

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: [signature] DATE: 11-3-06 TIME: 1200 (noon)

RECEIVED BY: [signature] DATE: 11/3/06 TIME: 1300

RELINQUISHED BY: DATE: TIME:

RECEIVED BY: DATE: TIME:

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # 14538 AIHA # 6940 PAT # 6940 NVLAP # 101424

TRC
Customer-Focused Solutions

APPENDIX J
ASBESTOS WASTE SHIPMENT RECORDS

60606 J-2

E.P.A. AGENCY

1726

TRANS WASTE

arker Drive • Wallingford, CT 06492
) 269-8300 • Fax: (203) 269-8600

CT, MA, RI, VT, NH, ME GENERATORS
EPA New England
1 Congress Street
Boston, MA 02114-2023
(617) 918-1111

NY GENERATORS
EPA Region 2
290 Broadway, 26th Floor
New York, NY 10007-1866
(212) 637-3000

EMERGENCY RESPONSE TELEPHONE
#1-800-750-3460

K#

ASBESTOS DISPOSAL & DOCUMENTATION FORM

) Number 201-2642 P.O. #

ontractor Petco Insulation Co., Inc.

ddress 88 Farwell Street

y West Haven State CT Zip 06516

elephone Number 203-934-3926

te Container Del. 10/11/06 Date of Pickup 11/8/06

ype of Container

OLUME 2.05 CY Friable ☑ Non-Friable ☐
MUST BE IN CUBIC YARDS

ag ☑ Drum ☐ Wrapped ☐ Other ☐

RQ, ASBESTOS, 9, NA2212, PG III

GENERATOR/BUILDING OWNER

State of Ct, DPW
Address 165 Capitol Ave
City Hartford State CT Zip 06106
Phone Number

GENERATING LOCATION

Mystic Ed/Admin Bldg/Crawlspace
Address 240 School Rd
City Groton, CT State Zip
Phone Number

ertify the above named material does not contain free liquid as defined by 40 CFR part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR part 261 ny applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to NESHAP standards for asbestos waste osal found in 40 CFR part 61.150.

pper's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, arked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations.

UTHORIZED SIGNATURE W. Pelley

ransporter 1: Name Address Telephone #

river: Signature Registration #: State / # Date:

Acknowledgement of receipt of materials.

ransporter 2: TransWaste, Inc., 3 Barker Drive, Wallingford, CT 06492 (203) 269-8300

iver: Signature Registration #: 40985 A State / # Date: 11-9-06

Acknowledgement of receipt of materials.

ransporter 3: TransWaste, Inc., 3 Barker Drive, Wallingford, CT 06492 (203) 269-8300
Name Address Telephone #

ver: Signature Registration #: State / # Date:

Acknowledgement of receipt of materials.

ne ☐: Modern Landfill	Site ☐: BFI Imperial Landfill	Site ☐:
ddress: 4400 Mount Pisgah Road	Address: 11 Boggs Road	Address:
York, PA 17402	Imperial, PA 15126	
hone: 717-246-4615	Phone: 724-695-0900/L15Y43756	Phone:

Certification of receipt of materials covered by this manifest.

ereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

T. Sherbine — ne of Authorized Agent
T. Sherbine — Signature
11-9-06 — Receipt Date

COPY 1 - GENERATOR

606065-2

TRANS WASTE
arker Drive • Wallingford, CT 06492
3) 269-8300 • Fax: (203) 269-8600

E.P.A. AGENCY

CT, MA, RI, VT, NH, ME GENERATORS
EPA New England
1 Congress Street
Boston, MA 02114-2023
(617) 918-1111

NY GENERATORS
EPA Region 2
290 Broadway, 26th Floor
New York, NY 10007-1866
(212) 637-3000

1727

EMERGENCY RESPONSE TELEPHONE
#1-800-750-3460

ASBESTOS DISPOSAL & DOCUMENTATION FORM

b Number 201-2643 P.O. #
ntractor Petco Insulation Co., Inc.
ddress 88 Farwell Street
y West Haven State CT Zip 06516
elephone Number 203-934-3926
te Container Del. 10/10/16 Date of Pickup 11/8/16
ype of Container 40YD
OLUME .61 CY Friable ☑ Non-Friable ☐
MUST BE IN CUBIC YARDS
ag ☑ Drum ☐ Wrapped ☐ Other ☐

RQ, ASBESTOS, 9, NA2212, PG III

GENERATOR/BUILDING OWNER

State of Ct, DPW
Address 165 Capitol Ave
City Hartford, CT State 06106 Zip
Phone Number

GENERATING LOCATION

Mystic Ed/Dining Hall
Address 240 School Road
City Groton, CT State Zip
Phone Number

ertify the above named material does not contain free liquid as defined by 40 CFR part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR part 261 any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to NESHAP standards for asbestos waste osal found in 40 CFR part 61.150.
pper's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, arked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations.

UTHORIZED SIGNATURE W. Pelly

ransporter 1: _____
Name Address Telephone #

river: _____ Registration #: _____ Date: _____
Signature State / #
Acknowledgement of receipt of materials.

ransporter 2: TransWaste, Inc., 3 Barker Drive, Wallingford, CT 06492 (203) 269-8300
iver: [signature] Registration #: 40985A Date: 11.9.06
Signature State / #
Acknowledgement of receipt of materials.

ransporter 3: TransWaste, Inc., 3 Barker Drive, Wallingford, CT 06492 (203) 269-8300
Name Address Telephone #
iver: _____ Registration #: _____ Date: _____
Signature State / #
Acknowledgement of receipt of materials.

e ☑: Modern Landfill	Site ☐: BFI Imperial Landfill	Site ☐:
ddress: 4400 Mount Pisgah Road	Address: 11 Boggs Road	Address:
York, PA 17402	Imperial, PA 15126	
hone: 717-246-4615	Phone: 724-695-0900/L15Y43756	Phone:

Certification of receipt of materials covered by this manifest.

ereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

T. Sherbine — T. Sherbine — 11-9-06
me of Authorized Agent Signature Receipt Date

COPY 1 - GENERATOR

arker Drive • Wallingford, CT 06492
3) 269-8300 • Fax: (203) 269-8600

E.P.A. AGENCY

CT, MA, RI, VT, NH, ME GENERATORS
EPA New England
1 Congress Street
Boston, MA 02114-2023
(617) 918-1111

NY GENERATORS
EPA Region 2
290 Broadway, 26th Floor
New York, NY 10007-1866
(212) 637-3000

1725

EMERGENCY RESPONSE TELEPHONE
#1-800-750-3460

.C#

ASBESTOS DISPOSAL & DOCUMENTATION FORM

b Number 201-2645 P.O. #
ontractor Petco Insulation Co., Inc.
ddress 88 Farwell Street
y West Haven State CT Zip 06516
elephone Number 203-934-3926
ate Container Del. 10/10/06 Date of Pickup 11/8/06
ype of Container 40 YD.
OLUME 2.25 CY Friable ☑ Non-Friable ☐
MUST BE IN CUBIC YARDS
ag ☑ Drum ☐ Wrapped ☐ Other ☐

RQ, ASBESTOS, 9, NA2212, PG III

GENERATOR/BUILDING OWNER
State of CT DPW
Address 165 Capitol Ave
City Hartford, CT 06106 State Zip
Phone Number

GENERATING LOCATION
Mystic Ed/Admin Bldg/Allion Porch
Address 240 School Rd.
City Groton, CT State Zip
Phone Number

ertify the above named material does not contain free liquid as defined by 40 CFR part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR part 261 ny applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to NESHAP standards for asbestos waste osal found in 40 CFR part 61.150.
pper's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, arked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations.

UTHORIZED SIGNATURE [signature]

ransporter 1: Name Address Telephone #
river: Signature Registration #: State / # Date:
Acknowledgement of receipt of materials.

ransporter 2: ~~TransWaste, Inc.~~, 3 Barker Drive, Wallingford, CT 06492 (203) 269-8300
iver: [signature] Signature Registration #: 109851A CT State / # Date: 11.9.06
Acknowledgement of receipt of materials.

ransporter 3: TransWaste, Inc., 3 Barker Drive, Wallingford, CT 06492 (203) 269-8300
Name Address Telephone #
iver: Signature Registration #: State / # Date:
Acknowledgement of receipt of materials.

..e ☑: Modern Landfill	Site ☐: BFI Imperial Landfill	Site ☐:
ddress: 4400 Mount Pisgah Road	Address: 11 Boggs Road	Address:
York, PA 17402	Imperial, PA 15126	
hone: 717-246-4615	Phone: 724-695-0900/L15Y43756	Phone:

Certification of receipt of materials covered by this manifest.

..ereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

T. Sherbine — me of Authorized Agent
[signature] — Signature
11-9-06 — Receipt Date

COPY 1 - GENERATOR

Cover 5-2

E.P.A. AGENCY

1728

TRANS WASTE
3 Barker Drive • Wallingford, CT 06492
(203) 269-8300 • Fax: (203) 269-8600

CT, MA, RI, VT, NH, ME GENERATORS
EPA New England
1 Congress Street
Boston, MA 02114-2023
(617) 918-1111

NY GENERATORS
EPA Region 2
290 Broadway, 26th Floor
New York, NY 10007-1866
(212) 637-3000

EMERGENCY RESPONSE TELEPHONE
#1-800-750-3460

TK#

ASBESTOS DISPOSAL & DOCUMENTATION FORM

Job Number 201-2662 P.O. #
Contractor Petco Insulation Co., Inc.
Address 88 Farwell Street
City West Haven State CT Zip 06516
Telephone Number 203-934-3926
Date Container Del. 10/10/06 Date of Pickup 11/8/06
Type of Container 40 YD
VOLUME 1.84 CY Friable ☒ Non-Friable ☐
MUST BE IN CUBIC YARDS
Bag ☒ Drum ☐ Wrapped ☐ Other ☐
RQ, ASBESTOS, 9, NA2212, PG III

GENERATOR/BUILDING OWNER
State of Ct, DPW
Address 165 Capitol Ave
City Hartford, ct State 06106 Zip
Phone Number

GENERATING LOCATION
Mystic Ed/Old Teacher's Dining Hall
Address 240 School Road
City Groton, CT State Zip
Phone Number

I certify the above named material does not contain free liquid as defined by 40 CFR part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to NESHAP standards for asbestos waste disposal found in 40 CFR part 61.150.
Shipper's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations.

AUTHORIZED SIGNATURE D. Pellegrini

Transporter 1: _____
Name Address Telephone #
Driver: _____ Registration #: _____ Date: _____
Signature State / #
Acknowledgement of receipt of materials.

Transporter 2: TransWaste, Inc., 3 Barker Drive, Wallingford, CT 06492 (203) 269-8300
Driver: [signature] Registration #: 40985A CT Date: 11.9.06
Signature State / #
Acknowledgement of receipt of materials.

Transporter 3: TransWaste, Inc., 3 Barker Drive, Wallingford, CT 06492 (203) 269-8300
Name Address Telephone #
Driver: _____ Registration #: _____ Date: _____
Signature State / #
Acknowledgement of receipt of materials.

Site ☒: Modern Landfill
Address: 4400 Mount Pisgah Road
York, PA 17402
Phone: 717-246-4615

Site ☐: BFI Imperial Landfill
Address: 11 Boggs Road
Imperial, PA 15126
Phone: 724-695-0900/L15Y43756

Site ☐:
Address:
Phone:

Certification of receipt of materials covered by this manifest.

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

T. Sherbine — Name of Authorized Agent
T. Sherbine — Signature
11-9-06 — Receipt Date

COPY 1 - GENERATOR

REPORT

COMPLIANCE REPORT FOR THE ABATEMENT OF ASBESTOS CONTAINING MATERIALS MYSTIC EDUCATIONAL CENTER ADMINISTRATION BUILDING GROTON, CONNECTICUT

Project No. RM-08-01
DPW No. 16945

Prepared for

State of Connecticut
Department of Public Works
Hartford, Connecticut

Prepared by

TRC
Windsor, Connecticut

August 29, 2008

21 Griffin Road North
Windsor, CT 06095

860.298.9692 PHONE
860.298.6399 FAX

www.TRCsolutions.com

September 5, 2008

Mr. David Arute
Facilities Management
State Office Building
165 Capitol Avenue
Hartford, CT 06106

Re: Compliance Report for Mystic Educational Center – Administration Building, Groton, Connecticut
Project No.: RM-08-01
DPW Building No.: 16945
TRC Project No.: 106957-7800-0003

Dear Mr. Arute:

Enclosed are two copies of the compliance report for the asbestos abatement conducted in January and February, 2008 at the Administration Building.

Please contact me at (860) 298-6222 if have any questions concerning the report.
Very truly yours,

TRC

Donald LePage

Donald LePage
Project Manager

cc: James Sinclair, DPW

COMPLIANCE REPORT FOR THE ABATEMENT OF ASBESTOS CONTAINING MATERIALS MYSTIC EDUCATIONAL CENTER ADMINISTRATION BUILDING GROTON, CONNECTICUT

Project No. RM-08-01
DPW No. 16945

Prepared for
State of Connecticut Department of Public Works
Hartford, Connecticut

Prepared by
TRC
Windsor, Connecticut

Donald LePage

Donald LePage
Project Manager

TRC Project No. 106957-7800-0003
August 29, 2008

TRC
21 Griffin Road North
Windsor, Connecticut 06095
Telephone 860-298-9692
Facsimile 860-298-6399

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D TRC CERTIFICATIONS/LICENSES
E EQUIPMENT CALIBRATION DATA
F LABORATORY ANALYTICAL CERTIFICATIONS
G ASBESTOS AIR SAMPLE ANALYSIS AND CHAIN-OF-CUSTODY DATA
H ASBESTOS WASTE SHIPMENT RECORDS

1.0 EXECUTIVE SUMMARY

TRC of Windsor, Connecticut was retained by the State of Connecticut Department of Public Works (CTDPW) to provide project compliance and industrial hygiene services during the abatement of asbestos containing materials (ACM) conducted at the Mystic Educational Center – Administration Building, Groton, Connecticut. TRC conducted this work per DAS Contract 03PSX0346AE which is effective from May 7, 2004 to September 30, 2008. Asbestos abatement was necessitated in accordance with the U.S. Environmental Protection Agency (USEPA) Asbestos National Emission Standard for Hazardous Air Pollutants (NESHAP) (40 CFR Part 61 Subpart M) as the building structure was scheduled for future renovation. The asbestos abatement contractor for the project was Petco Insulation Company, Inc. (Petco) of West Haven, Connecticut utilizing DAS Contract #03PSX0374AC. TRC was on site throughout the duration of the project to provide monitoring services.

The scope of work for the project, which took place from January 30 through February 1, 2008, involved the abatement of less than 25 square feet (SF) of asbestos containing glue daubs and plaster in the dining room. Written notification to CTDPH of the abatement activity was not required as the project involved less than 10LF/ 25SF of ACM. All work conducted by Petco was performed in compliance with OSHA's Occupational Exposure to Asbestos Standard, 29 CFR 1926.1101, the CT DPH Standards for Asbestos Abatement, 19a-332a-1 through 16, and the EPA's Asbestos National Emission Standard for Hazardous Air Pollutants (NESHAP) 40 CFR Part 61 Subpart M. Petco is a licensed State of Connecticut Asbestos Abatement Contractor and all Petco employees performing work on this project were appropriately licensed, trained, and medically qualified to perform such work. Interior work on ACM glue daubs and plaster was performed under full containment conditions with a negative pressure enclosure (NPE) and contiguous decontamination system.

Air samples were collected during abatement activities to monitor airborne asbestos fiber emissions and were transferred using proper chain-of-custody records to TRC's Accredited Laboratory in

Windsor, Connecticut and analyzed on-site by an AIHA Registered Asbestos Analyst from TRC for Phase Contrast Microscopy (PCM) analysis via the National Institute for Occupational Safety and Health (NIOSH) 7400 method. All asbestos air samples collected by TRC (inside and outside of the work areas) were found to be below the OSHA Permissible Exposure Level (PEL).

After abatement activities, the work areas were visually inspected by a TRC licensed Asbestos Project Monitor following ASTM Standard E1368-90 to ensure complete abatement. Further, reoccupancy asbestos clearance air sampling was conducted by TRC in the interior NPE work areas. The interior NPE reoccupancy clearance air samples were collected and analyzed on-site by an AIHA registered Asbestos Analyst from TRC using PCM analysis via the NIOSH 7400 method. The interior NPE work areas received satisfactory visual inspections on January 31 and February 1, had reoccupancy clearance air samples collected on January 31 and February 1 and received acceptable reoccupancy clearance criteria air results on January 31 and February 1, 2008.

The asbestos-containing waste generated during this project was containerized and labeled as asbestos waste in compliance with CTDEP/ CTDPH, OSHA, DOT and USEPA requirements. The waste was removed from the site in accordance with all state and federal disposal requirements, including the USEPA Asbestos NESHAP, and transported by Red Technologies, LLC of Bloomfield, Connecticut and Bumpus Trucking of Washington Courthouse, Ohio to Minerva Enterprises of Waynesburg, Ohio where it was deposited. Approximately one (0.65) cubic yard of asbestos waste was removed from the project site.

This concluded TRC's on-site efforts for this project. Refer to Section 2.0 for TRC's complete site log notes documenting all aspects of the project on a daily basis.

2.0 SITE LOGS

TRC

SITE LOG

Page 1

Site / Station DPW
Mystic Educational Center
Administration Bldg

Month / Year 1/08
Project No 069527800.0003

Date	Time	Instrument and TRC ID	Comments	Initials
1/30	0700		TRC & Petco on site	DR
			There will be three (3)	
			small containments in	
			Dining Room. The plaster	
			+ glue clumps are not	
			positive for asbestos but	
			will be treated as such.	
	0915		start prep area samples.	DR
	1200		lunch	DR
	1230		" " over	DR
	1400		prep of two containments	DR
			complete + DR passes	
			with pre abate visual	
	1430		Petco + TRC off site	DR
1/31	0700		Petco & TRC on site	DR
			Petco prepares to enter	
			containment #1 for removal	
	0820		removal complete + Petco	DR
			locks down. containment	
			passed visual	
	0835		start clearance in containment	DR
			#1	
	1000		removal complete in containment	DR
			#2 - visual ok -	
			Petco locks down	
	1055		remove pumps from containment	DR
			#1 + read. - passes	
	1120		start clearance sampler in	DR
			containment #2	
	1240		stop in containment #2	DR
			read - passes	

TRC

SITE LOG

Page 2

Site / Station DPW
Mystic Ed center
Administration Bldg

Month / Year 2/08
Project No 106957.7800.000

Date	Time	Instrument and TRC ID	Comments	Initials
1/31	1400		start removal in Containment #3	DR
	1500		Petro will finish in containment on 2/1/08	DR
	1530		Petro + TRC off site	DR
2/1	0700		TRC + Petro on site	DR
	0715		Petro finished with contain #3 focus clean.	DR
	0800		DR starts clearance samples.	DR
	0930		DR stops clearance samples. + reads samples clear	DR
	1000		Petro tears down containment #3	

PROJECT OUTLINE

Project Address:	Mystic Educational Center Administration Building Groton, CT
DAS Contract Number:	03PSX0346AE
DPW Project Manager:	James Sinclair
DPW Project No.:	RM-08-01
DPW Building No.:	16945
TRC Project No.:	106957-7800-0003
Date(s) of Project:	1/30/08-2/1/08
TRC Project Manager:	Donald LePage
TRC Project Monitor(s)/Inspector(s):	Dennis Ryder (#000443) – PM
Abatement Contractor:	Petco Insulation Co., Inc. (#000036)
Materials Abated:	<25 SF ACM plaster/glue daubs – facility dining room
Waste Hauler(s):	Red Technologies, LLC, Bloomfield, CT Bumpus Trucking, Washington Courthouse, OH
Asbestos Landfill:	Minerva Enterprises, Waynesburg, Ohio
Asbestos Waste Generated:	~ One (0.65) cubic yard (CY)

APPENDIX A
CONTRACTOR CERTIFICATIONS/LICENSES

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
RICHARD N. PROUTY

VALIDATION NO.	CERTIFICATION NO.	CURRENT THROUGH
03-514927	000634	07/31/08

PROFESSION
ASBESTOS ABATEMENT SUPERVISOR

SIGNATURE

J Robert Galvin M.D., M.P.H.
PROFESSIONAL

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

RICHARD N PROUTY	
Certificate Number 001385984ASBSR0707	
Course Date 7/20/2007	*Exam Date* 7/20/2007
Expires: 7/20/2008	

ABATEMENT TECHNIQUES
32 HOUR TRAINING PROGRAM for WORKERS

Name: Richard Prouty
SS #: 001-38-5984
Issued: 11/17/88 | Expires: 11/17/89
Test Grade: 88% | Certificate #: 0891

New England Laborers' Training Trust Fund
37 East Street
Hopkinton, MA 01748

James Merloni, Jr.
Administrator

EnviroMed Services, Inc.

Certificate of Completion

Richard Prouty

has successfully completed the contents of the eight (8) hour Asbestos Abatement Supervisor Training course in accordance with the United States Environmental Protection Agency's Model Contractor Accreditation Plan.

10721
Certificate Number

George Gaudet
Training Coordinator
EnviroMed Services, Inc.

7/8/89
Course and Exam D

7/8/90
Expiration Date

HEALTH, SAFETY & ASBESTOS
ABATEMENT TECHNIQUES
8-HOUR REVIEW COURSE for FOREMAN/SUPERVISOR

Name: Richard Prouty
SS #: 001-38-5984
Issued: 8/29/90 | Expires: 8/29/91
Test Grade: 92% | Certificate #: C-891SR

New England Laborers' Training Trust Fund
Route 97 & Murdock Rd. - P.O. Box 77
Pomfret Center, CT 06259

Gennaro S. Lepore
Administrator

HEALTH, SAFETY & ASBESTOS
ABATEMENT TECHNIQUES
8-HOUR REVIEW COURSE for FOREMAN/SUPERVISOR

Name: Richard Prouty
SS #: 001-38-5984
Issued: 6/27/91 | Expires: 6/27/92
Test Grade: 84% | Certificate #: C-891SR

New England Laborers' Training Trust Fund
Route 97 & Murdock Rd. - P.O. Box 77
Pomfret Center, CT 06259

Gennaro S. Lepore
Administrator

HEALTH, SAFETY & ASBESTOS
ABATEMENT TECHNIQUES
8-HOUR REVIEW COURSE for FOREMAN/SUPERVISOR

Name: Richard Prouty
SS #: 001-38-5984
Issued: 5-7-92 | Expires: 5-7-93
Test Grade: 90% | Certificate #: C-891SR

New England Laborers' Training Tr
Route 97 & Murdock Rd. - P.O. B
Pomfret Center, CT 06259

Gennaro S. Lepore
Administrator

Mystic Air Quality Consultants, Inc.
1004 North Road, Groton, CT 06340

RICHARD PROUTY
001-38-5984

Annual Refresher Course
for
Asbestos Workers

Certificate Number: 8778/4
Date of Course: 8/26/92
Date of expiration: 8/26/93

President: [signature]
Test Grade: 100%
Training Coordinator: [signature]

HEALTH, SAFETY & ASBESTOS
ABATEMENT TECHNIQUES
8-HOUR REVIEW COURSE for FOREMAN/SUPERVISOR

Name: Richard Prouty
SS #: 001-38-5984
Issued: 2/5/93 | Expires: 2/5/94
Test Grade: 90% | Certificate #: C-1165SR

New England Laborers' Training Trust Fund
Route 97 & Murdock Rd. - P.O. Box 77
Pomfret Center, CT 06259

Gennaro S. Lepore
Administrator

HEALTH, SAFETY & ASBESTOS
ABATEMENT TECHNIQUES
40-HOUR COURSE for FOREMAN/SUPERVISOR

Name: Richard Prouty
SS #: 001-38-5984
Issued: 1-20-94 | Expires: 1-20-95
Test Grade: 96% | Certificate #: C-1165SR

New England Laborers' Training Trust Fund
Route 97 & Murdock Rd. - P.O. Box 77
Pomfret Center, CT 06259

Gennaro S. Lepore
Administrator

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

Name/Certificate #
Richard Prouty
001385984ASBSR0295
Course Date 02-03-95 | Exam Date 020395
Expires 020396

NEW ENGLAND LABORERS'
TRAINING TRUST FUND
P.O. Box 77
Pomfret Center, CT 06259
(203) 974-1455

The individual named has completed the requisite training for asbestos accreditation under TSCA Title II

John LiConche, Administrator

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

Name/Certificate #
Richard Prouty
001385984ASBSR0296
Course Date 02-02-96 | Exam Date 020296
Expires 020297

NEW ENGLAND LABORERS'
TRAINING TRUST FUND
P.O. Box 77
Pomfret Center, CT 06259
(203) 974-1455

The individual named has completed the requisite training for asbestos accreditation under TSCA Title II

John LiConche, Administrator

ASBESTOS ABATEMENT
SUPERVISOR REFRESHER

Name/Certificate #
Richard Prouty
001385984ASBSR0197
Course Date 01-10-97 | Exam Da 011097
Expires 011098

NEW ENGLAND LABO
TRAINING TRUST F
P.O. Box 77
Pomfret Center, CT 0
(203) 974-1455

The individual named has com the requisite training for asb accreditation under TSCA Ti

John LiConche, Admini

Concentra Medical Centers (CT)

370 James St Suite 304 NEW HAVEN, CT 06513
Phone: (203) 503-0482 Fax: (203) 503-0492

PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

Service Date: 07/09/2007

Employee Name: Prouty, Richard N.

Employee SSN: 001-38-5984

Address: 111 Highland St.

N HAVEN CT 06516

Employer: Petco Insulation Co

You were evaluated in this office of your medical status related to your physical capability to wear a respirator. (Check ✓ one that applies)

- [x] There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- [ ] The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

Based upon the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)

- [x] ARE qualified to wear a respirator.
- [ ] Have the following restrictions concerning respirator usage: _____
- [ ] ARE NOT qualified to wear a respirator.
- [ ] Require further testing by your private physician who must submit a written report of his/her findings to Concentra Medical Centers (CT) so that a final decision on your ability to wear a respirator can be made.
- [ ] Must wear Special prescription eye-wear needed to accommodate respirator.
- [ ] Must use an Eye glass conversion kit.
- [ ] May need to shave Facial hair to assure tight seal on certain face masks.
- [ ] Need to stop smoking.

(Check ✓ ALL that apply)

- [x] The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- [ ] The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- [x] In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator.Refer to product literature and packaging for specific information regarding fit, use and/or limitations.

PLHCP Signature

Employee's Signature

PLHCP Name (printed)

07/09/08
Expiration Date

[1]Physician or other Licensed Healthcare Professional

To be maintained in the employee's file with a copy to the employee

RESPIRATOR FIT TEST

DATE: 7-3-07

EMPLOYEE NAME: Richard Prouty

SOCIAL SECURITY # 001-38-5984

FIT TEST PASS ✓

FAIL _____

REASON: 3M PAPR + SURVIVAIR ½ FACE

NAME OF PERSON CONDUCTING FIT TEST: Bob Leach

I HAVE READ AND FULLY UNDERSTAND THE RESPIRATORY PROTECTION PROGRAM MANUAL. I HAVE ALSO RECEIVED A FIT TEST USING THE PROCEDURES IN APPENDIX A OF THE MANUAL.

EMPLOYEE SIGNATURE: [signature]

Health Care or Environmental Health Professional's License Status

This site is part of CT-clic.com, the Connecticut Licensing Info Center, that links to all YOUR State licensing and registration needs.

Note: Requests for copies of documents related to past disciplinary action for professions other than physicians may be emailed as such documents are not currently available via this web site. Please include your name and telephone number on any request.

License Type:	Asbestos Abatement Supervisor
License Number:	003218
Name:	SOTO, DAVID
Expiration Date:	7/31/2008
Granted Date:	8/10/2007
License Name:	David Soto
License Status:	Current
Disciplinary Action:	None

Questions ? ?

E-mail oplc.dph@po.state.ct.us or call (860) 509-7603
Return to DPH Licensure/Renewal Page

For Business Registry Questions? Contact SmartStart or call 1-800-392-2122.

State of Connecticut Disclaimer and Privacy Policy. Copyright @ 2000 State of Connecticut. Universal Website Accessibility Policy applies. For comment about this site contact the webmaster

ENVIROMED SERVICES, INC.
470 MURDOCK AVE., MERIDEN, CT 06450
(203) 238-4846

Training Course Attendee

David Soto
NAME

SOCIAL SECURITY NUMBER

CARDHOLDER SIGNATURE

40 HR Asbestos Abate Supervisor
COURSE NAME

7/30-8/3/07 8/3/07
COURSE DATE EXAM DATE

8/3/08
EXPIRATION DATE

24426-ASB02
CERTIFICATE NUMBER

SIGNATURE OF TRAINING COORDINATOR

EnviroMed Services, Inc.

470 Murdock Avenue • Meriden, Connecticut 06450 • (203) 238-4846

Certificate of Completion

David Soto

has successfully completed, and passed an examination covering the contents of the initial five (5) day forty (40) hour course for Asbestos Abatement Supervisors. This course is accredited by the State of Connecticut, and is in accordance with the EPA Revised MAP for accreditation under the TSCA Title II as self-certified by Trainer 10/3/94.

July 30-August 3, 2007
Course Dates

August 3, 2008
Expiration Date

24426-ASB02
Certificate Number

August 3, 2007
Exam Date

Training Coordinator
EnviroMed Services, Inc.

Concentra Medical Centers (CT)

370 James St Suite 304 NEW HAVEN, CT 06513
Phone: (203) 503-0482 Fax: (203) 503-0492

PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

Service Date: 07/18/2007

Employee Name: Soto, David

Employee SSN: 111-54-5802

Address: 18 oak rd

WEST HAVEN CT 06516

Employer:

You were evaluated in this office of your medical status related to your physical capability to wear a respirator. (Check ✓ one that applies)

- ☒ There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- ☐ The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

Based upon the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)

- ☒ ARE qualified to wear a respirator.
- ☐ Have the following restrictions concerning respirator usage:
- ☐ ARE NOT qualified to wear a respirator.
- ☐ Require further testing by your private physician who must submit a written report of his/her findings to **Concentra Medical Centers (CT)** so that a final decision on your ability to wear a respirator can be made.
- ☐ Must wear Special prescription eye-wear needed to accommodate respirator.
- ☐ Must use an Eye glass conversion kit.
- ☐ May need to shave Facial hair to assure tight seal on certain face masks.
- ☐ Need to stop smoking.

(Check ✓ ALL that apply)

- ☒ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☐ The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☒ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator' effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator. Refer to product literature and packaging for specific information regarding fit, use and/or limitations.

PLHCP Signature

J. Pito MD

PLHCP Name (printed)

[1]Physician or other Licensed Healthcare Professional

Employee's Signature

7/18/08

Expiration Date

To be maintained in the employee's file with a copy to the employee

RESPIRATOR FIT TEST

Date of Test 8-7-07

Employee DAVID SOTO

SS Number 111 54 5802

Respirator Make Survivair

Type HALFFACE

PASS/FAIL

Expiration Date

COMMENTS

Test Administrator Dennis O'Connor

This fit test is for asbestos/lead abatement work. Certification will expire in one (1) year unless other physical factors and/or different respirator is used, Re-Test is required.

EMPLOYEE SIGNATURE

APPENDIX B
DAILY PROJECT SIGN-IN SHEETS

DAILY SIGN-IN SHEET

CLIENT DPW

SITE Mystic Educational Center

JOB # 106957.7800.0003

TRC REPRESENTATIVE D. Ryder

NOTE: ALL PERSONS ENTERING & EXITING THE WORK AREA MUST SIGN IN & OUT

DATE	NAME	COMPANY	DESTINATION	PROTECTIVE CLOTHING	PURPOSE OF ENTRY	TIME IN	TIME OUT
1/30/08	Rick Prouty	Petco	Administration	tyvek	Prep	0700	1530
	Dave Soto	" "	Dining Room	" "	" "	"	"
1/31/08	Rick Prouty	Petco	Administration	OSHA Req'd	supervision	0700	1530
	Dave Soto		Dining Rm	" "	removal	"	"
2/1/08	Rick Prouty	Petco	Ad Bldg	OSHA Req'd	supervision	0700	1530
	Dave Soto	"	Dining rm	" "	removal	"	"

TRC

APPENDIX C
CONTRACTOR OSHA PERSONNEL AIR SAMPLING RESULTS

CONTACT PETCO DIRECTLY

FOR OSHA PERSONNEL AIR SAMPLING RESULTS

RESULTS WERE NOT SUBMITTED TO TRC

APPENDIX D
TRC CERTIFICATIONS/LICENSES

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT-PROJECT MONITOR

DENNIS P. RYDER

LICENSE NO.
000443
CURRENT THROUGH
09/30/08
VALIDATION NO.
03-550388

SIGNATURE

J. Robert Galvin M.D., M.P.H.
COMMISSIONER

VOID VOID VOID VOID VOID VOID VOID VOID VOID VOID VOID VOID

CERTIFICATE OF ACHIEVEMENT

This certifies that

Dennis P. Ryder

has successfully completed the

8 Hour Asbestos Project Monitor Refresher Training

conducted by
ATC Associates Inc.
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Edward Kolodziej
Principal Instructor

Gregory J. Morsch
Regional Manager

February 21, 2007
Date of Course

PMR-0848
Certificate Number

February 21, 2008
Expiration Date

February 21, 2007
Examination Date

AIHA

Your Essential Connection

RETAIN FOR YOUR RECORDS

June 13, 2003

Counter ID: 8468
Organization ID: 100122

Dennis P. Ryder
TRC Environmental Corporation
5 Waterside Crossing
Windsor, CT 06095-1561

Dear :Analyst

Congratulations! The American Industrial Hygiene Association (AIHA) Analytical Accreditation Board (AAB) has approved your listing in the Asbestos Analysts Registry (AAR). This Board Approval takes effect today and is current as long as you maintain two or less outliers in the two most current consecutive Asbestos Analytical Testing (AAT) rounds. This is the only time AIHA requires that you be on the AAB Ballot.

If you should receive more than two outliers in two consecutive rounds, your AAT Performance Results report will show that you are "not acceptable." To regain your Board Approval, your options are:

1) Purchase the current round retest to override the results, or:
2) Analyze the next two AAT rounds and again meet Board Approval qualifications.

If you foresee non-participation iu a future AAT round, AIHA requires a letter requesting a suspension from that round to retain the Board Approval status before the date that results are due for that particular round.

For your information:
1) You automatically lose Board Approval status when you cease analyzing AAT samples with your organization.
2) If you transfer to an unapproved organization, you immediately lose Board Approval status.

Congratulations again and thank you for your continued interest in the Asbestos Analysts Registry program. If you have any questions concerning your status, please call me.

Sincerely,

Gary E. Coates
Laboratory Accreditation Specialist

OVER 25 OF ACCREDITING LABS AIHA

LABORATORY QUALITY ASSURANCE PROGRAMS

SOUND DATA SMART DECISIONS

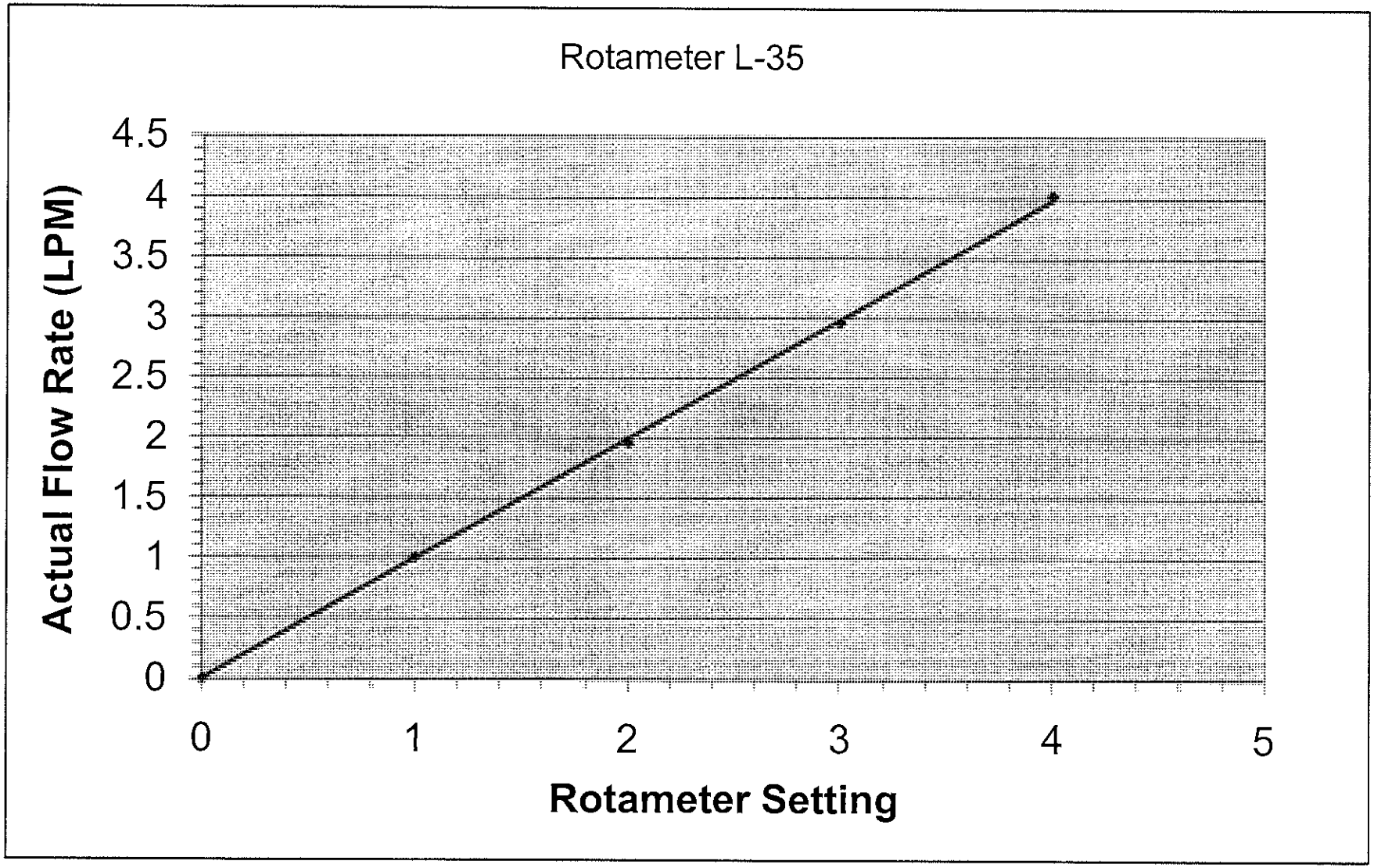
AIHA
Your Essential Connection: Advancing Occupational and Environmental Health and Safety Globally
2700 Prosperity Ave., Suite 250, Fairfax, VA 22031 U.S.A.
(703) 849-8888; Fax (703) 207-8558; www.aiha.org

APPENDIX E
EQUIPMENT CALIBRATION DATA

..ota...ter L-35

Rotameter Setting	Avg. Flow
0	0
1	1.00
2	1.96
3	2.96
4	4.02

Calibrated on: 06 November 2007
By: K. Williamson
Due: 06 May 2008

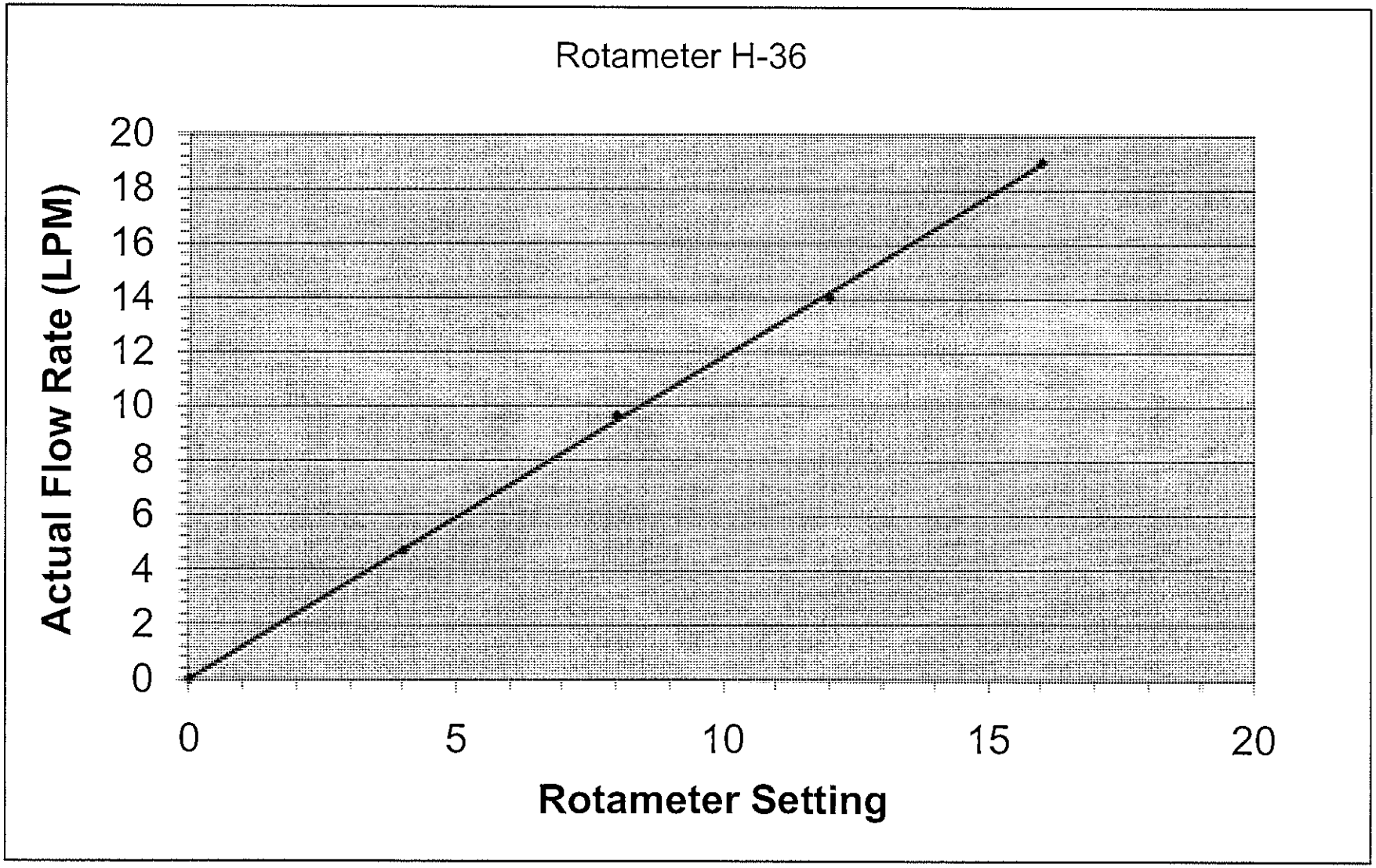


Rotameter calibrated using center of ball

Rotameter H-36

Rotameter Setting	Avg. Flow
0	0
4	4.7
8	9.7
12	14.0
16	19.0

Calibrated on: 06 November 2007
By: K. Williamson
Due: 06 May 2008



Rotameter calibrated using center of ball

APPENDIX F
LABORATORY ANALYTICAL CERTIFICATIONS

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

TRC ENVIRONMENTAL CORPORATION

LOCATED AT 21 Griffin Road North IN Windsor, CT 06095

AND REGISTERED IN THE NAME OF Eric Plimpton

THIS CERTIFICATE IS ISSUED IN THE NAME OF Kathleen Williamson WHO HAS BEEN DESIGNATED BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

ASBESTOS
AIR-FIBER COUNTING - PCM
BULK IDENTIFICATION - PLM

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES December 31, 2009 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 4th DAY OF January, 2008

Registration No.

PH- 0426

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION

The American Industrial Hygiene Association

CELEBRATING 30 Thirty Years of AIHA Accrediting Labs

SOUND DATA SMART DECISIONS

1974 - 2004

acknowledges that

TRC Environmental Corporation

21 Griffin Road North, Windsor, CT 06095

Laboratory ID: 100122

has fulfilled the requirements of the AIHA Laboratory Quality Assurance Programs (LQAP), thereby, conforming to the ISO/IEC 17025:1999 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories*. The above named laboratory, along with all premises from which key activities are performed, as listed above, have been accredited by AIHA in the following:

ACCREDITATION PROGRAMS

✓	**INDUSTRIAL HYGIENE**	Accreditation Expires: 02/01/2008
☐	**ENVIRONMENTAL LEAD**	Accreditation Expires:
☐	**ENVIRONMENTAL MICROBIOLOGY**	Accreditation Expires:
☐	**FOOD**	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with LQAP requirements. This certificate is not valid without the attached **Scope of Accreditation**.

David Kahane, CIH
Chairperson, Analytical Accreditation Board

Roy M. Buchan, DrPH, CIH
President, AIHA

Date Issued: 2/24/2006

APPENDIX G
ASBESTOS AIR SAMPLE ANALYSIS AND CHAIN-OF-CUSTODY DATA

Supersede Previous Edition

AIR SAMPLE ANALYSIS REPORT

CLIENT: DPW

SITE: Mystic Educational Center

ADDRESS: Administration Bldg Dining Room

CONTACT/NAME:

PHONE NO.:

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

PROJECT NO: 16952.7800.003 DATE: 1/30/08 PG ___ OF ___

SAMPLER PRINT: Dennis P. Ryder SIGNATURE: [signature] DATE

ANALYST PRINT: Dennis P Ryder SIGNATURE: [signature] DATE ANALYZED 1/31/08

QC ANALYST PRINT: Dennis P Ryder SIGNATURE: [signature] DATE ANALYZED 1/31/08

LAB SUPERVISOR PRINT: Williamson SIGNATURE: [signature] DATE ISSUED

QC MANAGER PRINT: SIGNATURE:

ROTOMETER NO.: L-35 DATE OF CALIBRATION: 11/6/07 LAB NO.: 35025

SAMPLE TYPE: X PCM TEM OTHER (SPECIFY)

ANALYSIS METHOD: X NIOSH 7400 Issue 2 8/15/94 AHERA OTHER (SPECIFY)

Qc 4/100 QC - 2/100

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	01	02	03	04			
SAMPLING LOCATION/ COMMENTS	FB	FB	Dining Room - north	Dining Room - at west side entrance.			
TYPE OF SAMPLE			2	2			
PUMP NUMBER							
START TIME/STOP TIME			0915/1315	0915/1315	/	/	/
TOTAL TIME (min)			240	240			
FLOW RATE			2.5/2.5	2.5/2.5	/	/	/
TOTAL VOLUME (l)			600	600			
FB/FL — BFB/BFL	0/100	0/100	4/100	3/100			
AIRBORNE FIBER CONC. (fibers/cc)	—	—	ND<0.004	ND<0.004			

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: [signature] DATE: 2/4/08 TIME: 0900

RECEIVED BY: [signature] DATE: 2/4/08 TIME: 0900

RELINQUISHED BY: DATE TIME:

RECEIVED BY: DATE: TIME:

Condition of Sample: OK
Acceptable: Y ✓ N
Comments:

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # AL014538 AIHA/PAT # 100122 NVLAP # 101424-0
ME # LB-0071 VA # 3333000283 TX # 300354

TRC

Supersede Previous Edition

AIR SAMPLE ANALYSIS REPORT

CLIENT: DPW

SITE: Mystic Educational Center

ADDRESS: Administration Bldg Dining Room

CONTACT/NAME:

PHONE NO.:

PROJECT NO.: 10957.7000.003 DATE: 1/31/08 PG ___ OF ___

SAMPLER PRINT: Dennis Ryder SIGNATURE: [signature] DATE 1/31/08

ANALYST PRINT: Dennis Ryder SIGNATURE: [signature] DATE ANALYZED 1/31/08

QC ANALYST PRINT: Dennis Ryder SIGNATURE: [signature] DATE ANALYZED 1/31/08

LAB SUPERVISOR PRINT: Williamson SIGNATURE: [signature] DATE ISSUED

QC MANAGER PRINT: H-36 SIGNATURE:

ROTOMETER NO.: L-35 DATE OF CALIBRATION: 11/6/07 LAB NO.: 350245

SAMPLE TYPE: X PCM ___ TEM ___ OTHER (SPECIFY)

ANALYSIS METHOD: X NIOSH 7400 Issue 2 8/15/94 ___ AHERA ___ OTHER (SPECIFY)

QC 3/100

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	05	06	07	08	09	10	11
SAMPLING LOCATION/ COMMENTS	FB	FB	← Dining Room North	Room → at west side entrance	← 1/5	Containment #1	
TYPE OF SAMPLE			4	4	6	6	6
PUMP NUMBER	X	X					
START TIME/STOP TIME			0815/1400	0815/1400	0935/1055	0935/1055	0935/1055
TOTAL TIME (min)			345	345	80	80	80
FLOW RATE			2.5/2.5	2.5/2.5	1.5/1.5	1.5/1.5	1.5/1.5
TOTAL VOLUME (l)			863	863	1200	1200	1200
FB/FL — BFB/BFL	0/100	0/100	5/100	5/100	3/100	4/100	3/100
AIRBORNE FIBER CONC. (fibers/cc)	—	—	ND<0.003	ND<0.003	ND<0.002	ND<0.002	ND<0.002

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: D Ryder DATE: 2/4/08 TIME: 0900

RECEIVED BY: [signature] DATE: 2/4/08 TIME: 0900

RELINQUISHED BY: DATE TIME:

RECEIVED BY: DATE: TIME:

Condition of Sample: OK
Acceptable: Y ___ N ___
Comments:

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # AL014538 AIHA/PAT # 100122 NVLAP # 101424-0
ME # LB-0071 VA # 3333000283 TX # 300354

TRC

Supersede Previous Edition

AIR SAMPLE ANALYSIS REPORT

CLIENT: DPW

SITE: Mystic Educational Center

ADDRESS: Administration Bldg. Dining Room

CONTACT/NAME:

PHONE NO.:

PROJECT NO.: 106957.7000.0003 DATE: 1/31/08 PG ___ OF ___

SAMPLER PRINT: Dennis P Ryle SIGNATURE: Dennis P Ryle DATE 1/31/08

ANALYST PRINT: Dennis P Ryle SIGNATURE: Dennis P Ryle DATE ANALYZED 1/31/08

QC ANALYST PRINT: Dennis P Ryle SIGNATURE: Dennis P Ryle DATE ANALYZED 1/31/08

LAB SUPERVISOR PRINT: Jill Williamson SIGNATURE: DATE ISSUED

QC MANAGER PRINT: SIGNATURE:

ROTOMETER NO.: H-36 DATE OF CALIBRATION: 4/6/07 LAB NO.: 35025

SAMPLE TYPE: X PCM ___ TEM ___ OTHER (SPECIFY)

ANALYSIS METHOD: X NIOSH 7400 Issue 2 8/15/94 ___ AHERA ___ OTHER (SPECIFY)

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory. QC 3/100 DR QC-2/100

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	12	13	14	15	16	17	18
SAMPLING LOCATION/ COMMENTS	1/5 containment #1	→	1/5	containment		#2	→
TYPE OF SAMPLE	6	6	6	6	6	6	6
PUMP NUMBER							
START TIME/STOP TIME	0935/1055	0935/1055	1120/1240	1120/1240	1120/1240	1120/1240	1120/1240
TOTAL TIME (min)	80	80	80	80	80	80	80
FLOW RATE	15/15	15/15	15/15	15/15	15/15	15/15	15/15
TOTAL VOLUME (l)	1200	1200	1200	1200	1200	1200	1200
FB/FL — BFB/BFL	4/100	4/100	4/100	3/100	3/100	2/100	4/100
AIRBORNE FIBER CONC. (fibers/cc)	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: D Ryle DATE: 2/4/08 TIME: 0900

RECEIVED BY: DATE: 2/4/08 TIME: 0900

RELINQUISHED BY: DATE TIME:

RECEIVED BY: DATE: TIME:

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # AL014538 AIHA/PAT # 100122 NVLAP # 101424-0
ME # LB-0071 VA # 3333000283 TX # 300354

Condition of Sample: OK
Acceptable: Y ___ N ___
Comments:

TRC

Supersede Previous Edition

AIR SAMPLE ANALYSIS REPORT

CLIENT: DPW

SITE: Mystic Educational Center

ADDRESS: Administration Bldg Dining Rm

CONTACT/NAME:

PHONE NO.:

PROJECT NO.: 06957.B00.005 DATE: 2/1/08 PG ___ OF ___

SAMPLER PRINT: Dennis P Ryder SIGNATURE: DATE

ANALYST PRINT: Dennis P Ryder SIGNATURE: DATE ANALYZED 2/1/08

QC ANALYST PRINT: Dennis P Ryder SIGNATURE: DATE ANALYZED 2/1/08

LAB SUPERVISOR PRINT: Williamson SIGNATURE: DATE ISSUED

QC MANAGER PRINT: SIGNATURE:

ROTOMETER NO.: H-36 DATE OF CALIBRATION: 11/6/07 LAB NO.: 35025

SAMPLE TYPE: X PCM TEM OTHER (SPECIFY)

ANALYSIS METHOD: X NIOSH 7400 Issue 2 8/15/94 AHERA OTHER (SPECIFY)

Intra- and Interlaboratory relative standard deviation quality control information is available in the laboratory.

TYPE OF SAMPLE: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

SAMPLE NO.	19	20	21	22	23	24	25
SAMPLING LOCATION/ COMMENTS	FB	FB	C 1/5	Containment		#5	→
TYPE OF SAMPLE			6	6	6	6	6
PUMP NUMBER	X	X					
START TIME/STOP TIME			0800/0920	0800/0920	0800/0920	0800/0920	0800/0920
TOTAL TIME (min)			80	80	80	80	80
FLOW RATE	/	/	15/15	15/15	15/15	15/15	15/15
TOTAL VOLUME (l)			1200	1200	1200	1200	1200
FB/FL — BFB/BFL	0/100	0/100	3/100	3/100	4/100	4/100	4/100
AIRBORNE FIBER CONC. (fibers/cc)	—	—	NDL 0.002	NDL 0.002	NDL 0.002	NDL 0.002	NDL 0.002

STANDARDS

≤ 0.01 f/cc - EPA Re-Occupancy Clearance Criteria
0.10 f/cc - OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc - OSHA 30 min. Excursion Level
ND< = Non-Detected, Less Than the Limit of Detection
Limit of Detection = 0.055 fibers/field

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: DATE: 2/4/08 TIME: 0900

RECEIVED BY: DATE: 2/4/08 TIME: 0900

RELINQUISHED BY: DATE TIME:

RECEIVED BY: DATE: TIME:

Condition of Sample: OK

Acceptable: Y N

Comments:

TRC LABORATORY ASBESTOS ANALYTICAL CERTIFICATIONS
CT # PH-0426 MA # AA000052 NY # 10980 RI # AAL-007C3 VT # AL014538 AIHA/PAT # 100122 NVLAP # 101424-0
ME # LB-0071 VA # 3333000283 TX # 300354

TRC

APPENDIX H
ASBESTOS WASTE SHIPMENT RECORDS

7800

4020

RED TECHNOLOGIES, LLC
REMEDIATION ENGINEERING & DEVELOPMENT

E.P.A. AGENCY

18164

CT, MA RI, VT, NH, ME GENERATORS

NY GENERATORS

173 Pickering Street
Portland, CT 06480
(860) 342-1022
Fax: (860) 342-1042

EPA New England
1 Congress Street
Boston, MA 02114-2023
(617) 918-1111

EPA Region 2
290 Broadway, 26th Floor
New York, NY 10007-1866
(212) 264-6770

TK# 18140 ASBESTOS DISPOSAL & DOCUMENTATION FORM

Job Number 201-3061 P.O. #

Contractor Petco Insulation Co., Inc.

Address 88 Farwell St., Suite 1

City West Haven State CT Zip 06516

Telephone Number (203) 934-3926

Date Container Del. 1/18/08 Date of Pickup 2/22/08

Type of Container 40 yd

VOLUME .65 CY Friable ☒ Non-Friable ☐

MUST BE IN CUBIC YARDS

Bag ☒ Drum ☐ T-Pack ☐ Wrapped ☐ Other ☐

GENERATOR/BUILDING OWNER

State of CT, DPW

Address 165 Capitol Ave.

City Hartford, CT State Zip 06106

Phone Number

GENERATING LOCATION

Mystic Ed/Cafeteria, Glue Dauks

Address Oral School Rd.

City Groton, CT State Zip

Phone Number

I certify the above named material does not contain free liquid as defined by 40 CFR part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to NESHAP standards for asbestos waste disposal found in 40 CFR part 61.150.

Shipper's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations.

AUTHORIZED SIGNATURE [signature]

Transporter 1: Red Technologies 10 Northwood Dr. Bloomfield, CT 06002 860-218-2425
Name Address Telephone #

Driver: [signature] Registration #: 42690A/CT Date: 2-22-08
Signature State / #

Acknowledgement of receipt of materials

Transporter 2:
Name Address Telephone #

Driver: N/A Registration #: Date:
Signature State / #

Acknowledgement of receipt of materials

Transfer Facility: Charles M. Gordon & Sons, Inc 203 Pickering St. Portland, CT 06480 **Permit #:**
860-342-1022 Permit# 1130836-10

Transfer Date: **By:** Lindsay Skelly

Discrepancy:

Certification of transfer of materials covered by this manifest

Transporter 3: Bumpus Trucking 491 Jonesboro Rd. Washington CH, OH 43160 740-335-0318
Name Address Telephone #

Driver: Registration #: Date: 2/26/08
Signature State / #

Acknowledgement of receipt of materials

Landfill Name: ~~Minerva Enterprises 330-866-3435~~ Phone No:

Location: ~~9000 Minerva Road Waynesburg OH, 44688~~ Permit #

Approximate Volume of Asbestos Received:

Discrepancy If Any: MINERVA ENTERPRISES

Received by: Date: 2009 FEB 26 A 8:06

Certification of transfer of materials covered by this manifest

PRE-RENOVATION INVESTIGATIVE SURVEY FOR ASBESTOS-CONTAINING MATERIALS MYSTIC ORAL SCHOOL PRATT BUILDING GROTON, CONNECTICUT

Project No. RM-10-02
DPW No. 16946

Prepared for
State of Connecticut
Department of Public Works
Hartford, Connecticut

Prepared by
TRC
Windsor, Connecticut

Donald LePage
Project Manager

TRC Project No. 164560-2030-0001
July 27, 2010

TRC
21 Griffin Road North
Windsor, Connecticut 06095
Telephone (860) 298-9692
Facsimile (860) 298-6399

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B	LABORATORY AND INSPECTOR ACCREDITATIONS
C	ASBESTOS BULK SAMPLE CHAIN OF CUSTODY FORMS
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EXECUTIVE SUMMARY

On July 16, 2010 TRC of Windsor, Connecticut conducted an inspection for suspect asbestos-containing materials (ACM) at Mystic Oral School – Pratt Building in Groton, Connecticut. The inspection was initiated prior to planned renovation activities in accordance with USEPA Asbestos National Emissions Standard for Hazardous Air Pollutants (NESHAPS) requirements.

The scope of the inspection was limited to the Girl's Locker Room office area at the subject site. A Connecticut licensed asbestos inspector from TRC conducted the inspection in accordance with USEPA AHERA protocols and ASTM Standard E2356-04. Bulk samples of suspect materials were collected and analyzed via polarized light microscopy (PLM) and PLM with gravimetric reduction methods at a CTDPH/NVLAP accredited laboratory. No ACM was identified in the subject area. ACM to be impacted by renovation activities must be removed prior to disturbance in accordance with OSHA, USEPA, CTDPH, and CTDEP standards for asbestos abatement/disposal. Detailed results of the asbestos survey can be found in Tables 1-3 and Appendices A through D.

PROJECT OUTLINE

Project Address:	Mystic Oral School – Pratt Building Groton, CT
DAS Contract No.	08PSX0202
DPW Project Manager	Michael Sanders
DPW Project No.:	RM-10-02
DPW Building No:	16946
TRC Project No.:	164560-2030-0001
TRC Project Manager:	Don LePage
Asbestos Inspector:	Jennifer Peshka (LIC #000198)
Date of Inspection:	7/16/10
Asbestos Identified:	None

Additional Notes:

The site investigation was limited to the collection and analysis of suspect asbestos-containing flooring materials from within the Girl's Locker Room office area of the building.

TABLES

TABLE 1 BULK SAMPLE SUMMARY OF SUSPECT ASBESTOS CONTAINING MATERIALS MYSTIC ORAL SCHOOL – PRATT BUILDING GROTON, CONNECTICUT			
Sample No.	**Sample Location**	**Homogeneous Material**	**% and Type Asbestos**
1	Girl's Locker Room – office	Carpet glue	ND<1%
2	Girl's Locker Room – office	Carpet glue	ND<1%*
3	Girl's Locker Room – office	Cove base	ND<1%
		Glue associated with cove base	ND<1%
4	Girl's Locker Room – office	Cove base	ND<1%*
		Glue associated with cove base	ND<1%*

NA/PVA Not analyzed/positive via inseparable association with a confirmed positive ACM
NA/PS Not analyzed/positive stop, homogeneous to sample proven to contain asbestos
ND<1% Non-detected, less than 1%
NAD No asbestos detected
+ Although found to be negative by analysis, material is homogeneous to a determined ACM and therefore must be considered positive
1 NOB material; result confirmed by TEM analyses
* Analyzed by EPA/600/R-93/116 with gravimetric reduction

TABLE 2 IDENTIFIED ASBESTOS CONTAINING MATERIALS (≥1%) MYSTIC ORAL SCHOOL – PRATT BUILDING GROTON, CONNECTICUT					
Material	**Sampled-Assumed (mo/yr)**	**General Location**	**NESHAP Category**	**AHERA Category**	**Estimated Quantity**
NO ASBESTOS CONTAINING MATERIALS WERE IDENTIFIED IN THE SUBJECT AREA					

AHERA Categories = thermal system insulation (TSI), surfacing material or miscellaneous
NESHAP Categories = friable, category I non-friable or category II non-friable
Friable = crumbled, pulverized or reduced to powder by hand pressure when dry
Category I Non-friable = packings, gaskets, resilient floor covering and asphalt roofing
Category II Non-friable = all non-friable that is not Category I

TABLE 3
CONFIRMED NON-ASBESTOS CONTAINING MATERIALS
MYSTIC ORAL SCHOOL – PRATT BUILDING
GROTON, CONNECTICUT

Material	General Location
Carpet glue	Girl's Locker Room – office
Cove base & associated glue	Girl's Locker Room – office

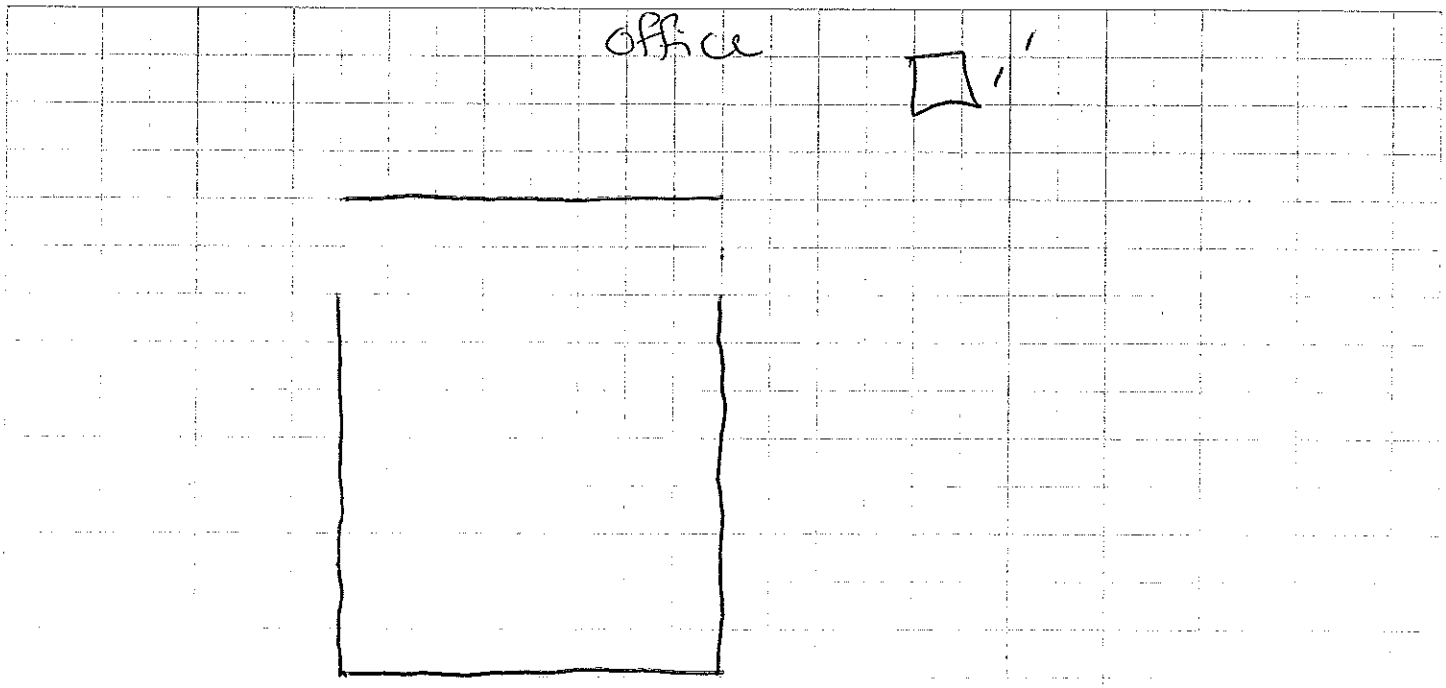
APPENDIX A

SITE SKETCH

Mystic Oral School
Pratt Bldg

SHEET NO. _____ OF _____
PROJECT NO. _____
DATE 2/14/10
BY Peshka
CHK'D _____

SUBJECT Girl's + Boys locker Rm



orange carpet w/ yellow glue (1) (2)
brown CD w/ white & drk brown glue (3) (4)

A

APPENDIX B

LABORATORY AND INSPECTOR ACCREDITATIONS

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

TRC ENVIRONMENTAL CORPORATION

LOCATED AT 21 Griffin Road North IN Windsor, CT 06095

AND REGISTERED IN THE NAME OF Erik Plimpton

THIS CERTIFICATE IS ISSUED IN THE NAME OF Kathleen Williamson WHO HAS BEEN DESIGNATED BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

ASBESTOS
AIR-FIBER COUNTING - PCM
BULK IDENTIFICATION - PLM

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES December 31, 2011 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 2nd DAY OF December 2009

Registration No.

PH- 0426

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101424-0

TRC Environmental Corporation

Windsor, CT

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2010-07-01 through 2011-06-30

Effective dates

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

Sally S. Bruce

For the National Institute of Standards and Technology

NVLAP-01C (REV. 2009-01-28)

National Voluntary
Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

TRC Environmental Corporation
21 Griffin Road North
Windsor, CT 06095
Ms. Kathleen Williamson
Phone: 860-298-6392 Fax: 860-298-6214
E-Mail: kwilliamson@trcsolutions.com
URL: http://www.trcsolutions.com

BULK ASBESTOS FIBER ANALYSIS (PLM) **NVLAP LAB CODE 101424-0**

NVLAP Code	*Designation / Description*
18/A01	EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

2010-07-01 through 2011-06-30
Effective dates

Sally S. Bruce
For the National Institute of Standards and Technology

NVLAP-01S (REV. 2005-05-19)

0001065 FP **PRSRT T3 0 1464 06095
JENNIFER PESHKA
21 GRIFFIN RD
WINDSOR CT 06095

Dear Licensed/Certified Professional,

Attached you will find your validated license/certification for the coming year. Should you have any questions about your license/certificate renewal, please do not hesitate to write or call:

Department of Public Health (860) 509-7603
P.O. Box 340308
M.S.#12MQA http://www.dph.state.ct.us
Hartford, CT 06134-0308

Sincerely,

J. ROBERT GALVIN, MD, MPH, COMMISSIONER
DEPARTMENT OF PUBLIC HEALTH

INSTRUCTIONS:

- Detach and sign each of the cards on this form.
- Display the large card in a prominent place in your office or place of business.
- The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.
- The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JENNIFER PESHKA

VALIDATION NO.	LICENSE NO.	CURRENT THROUGH
03-944659	000198	09/30/10

PROFESSION
ASBESTOS CONSULTANT-INSP/MGMT PLANNER

SIGNATURE COMMISSIONER

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT-INSP/MGMT PLANNER

JENNIFER PESHKA

LICENSE NO.
000198
CURRENT THROUGH
09/30/10
VALIDATION NO.
03-944659

SIGNATURE COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

Jennifer Peshka

has successfully completed the

Asbestos Site Inspector Refresher Training
Asbestos Accreditation Under TSCA Title II
40 CFR Part 763

conducted by

ATC Associates Inc.
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Gregory J. Morsch
Principal Instructor

February 25, 2010
Date of Course

February 25, 2011
Expiration Date

Gregory J. Morsch
Regional Manager

SIAR-3388
Certificate Number

February 25, 2010
Examination Date

APPENDIX C

ASBESTOS BULK SAMPLE CHAIN OF CUSTODY FORMS

TRC

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

Edition: October 2009
Supersede Previous Edition

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 38505

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
164560-2030.0003	DPW Mystic Oral School - Pratt Rd.		PLM: 8hr / 24hr X / 48hr / 3day TEM: 24hr / 48hr / 3day / 5day
SIGNATURE	INSPECTOR		
[signature]	Jen Peshka		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
1	7/16			X	Girls Locker Rm Office	X	~~X~~				carpet glue
2				X		~~X~~	X				carpet glue
3			X			X	~~X~~	X			covebase & glue
4			X			~~X~~	X	X			covebase & glue

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
[signature]	7/19/10	[signature] 7/19/10			
(Printed) Jen Peshka	Time: 0900	(Printed) [signature] 0930	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples: a
Acceptable: Yes ✓ No ____
Comments:

Weigh samples with mK160 balance

PLM Gravimetric Analysis

						g crucible		decimal	% Asb	% Asb
Date	Analyst	Lab Log #	Sample ID	Crucible ID	g crucible	plus sample	g after 480°	Residue	in residue	total Sample
7/20/2010	KW	38505	2	103	17.7086	17.7164	17.7121	0.449	0.00	0.0
			4G	111	18.8387	18.9472	18.9293	0.835	0.00	0.0
			4CB	302	20.0664	20.0806	20.0754	0.634	0.00	0.0

APPENDIX D

PLM LABORATORY ANALYSIS DATA

TRC

Industrial Hygiene Laboratory
21 Griffin Road North
Windsor, CT 06095
(860) 298-6308

BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Public Works

Site: Mystic Oral School, Pratt Road
Lab Log #: 38505
Project #: 164560.2030.0003
Date Received: 07/19/10
Date Analyzed: 07/20/10

RESULTS

Sample No.	Color	Homogeneous	Multi-Layered	Layer No.	Other Matrix Mat'ls	Asbestos %	Asbestos Type
1	Orange	Yes	No	--	--	ND<1%	None
2*	Orange	Yes	No	--	--	ND<1%	None
3	Brown/Beige (glue)	No	Yes	1	--	ND<1%	None
3	Brown (cove base)	No	Yes	2	--	ND<1%	None
4*	Brown/Beige (glue)	No	Yes	1	--	ND<1%	None
4*	Brown (cove base)	No	Yes	2	--	ND<1%	None

* Samples analyzed by EPA/600/R-93/116 with gravimetric reduction

NA/PS- Not Analyzed/Positive Stop

Reporting limit- asbestos present at 1%
ND<1% - asbestos was not detected
Trace- asbestos was observed at level of less than 1%

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, negative results must be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation (1982), and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey which utilizes polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2011. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through August 1, 2010. Ashestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and the QC data related to the samples is available upon written request from the client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

Analyst: Kathleen Williamson

QC Analyst: Kathleen Williamson

Reviewed by: _____
Laboratory Analyst

Approved _____
Kathleen Williamson
Signatory: Laboratory Manager

Date Issued: 7/20/10

TRC

3819-49-7434

4036989297 5

157126

3 Barker Drive • Wallingford, CT 06492
(203) 269-8300 • Fax: (203) 269-8600

E.P.A. AGENCY

CT, MA, RI, VT, NH, ME GENERATORS
EPA New England
1 Congress Street
Boston, MA 02114-2023
(617) 918-1111

NY GENERATORS
EPA Region 2
290 Broadway, 26th Floor
New York, NY 10007-1866
(212) 637-3000

EMERGENCY RESPONSE TELEPHONE
#1-800-750-3460

TK#

ASBESTOS DISPOSAL & DOCUMENTATION FORM

Job Number 105066 P.O. #
Contractor AAIS Corporation
Address 802 Boston Post Road
City West Haven State CT Zip 06516
Telephone Number 203 932 2992
Date Container Del. 5-11-2010 Date of Pickup 6-1-2010
Type of Container 40 yard
VOLUME 1.25 **CY** Friable ☑ Non-Friable ☐
MUST BE IN CUBIC YARDS
Bag ☑ Drum ☐ Wrapped ☐ Other ☐

RQ, ASBESTOS, 9, NA2212, PG III

GENERATOR/BUILDING OWNER
State of CT Department of Public Works
Address 165 Capital Avenue
City Hartford State CT Zip 06106
Phone Number 860 713 5821

GENERATING LOCATION
Mystic Oral School Durant Hall
Address Mystic Oral School Road
City Groton State CT Zip 06355
Phone Number

I certify the above named material does not contain free liquid as defined by 40 CFR part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to NESHAP standards for asbestos waste disposal found in 40 CFR part 61.150.
Shipper's Certification: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations.

AUTHORIZED SIGNATURE [signature]

Transporter 1: _____
Name Address Telephone #
Driver: _____ Registration #: _____ Date: _____
Signature State / #
Acknowledgement of receipt of materials.

Transporter 2: TransWaste, Inc., 3 Barker Drive, Wallingford, CT 06492 (203) 269-8300
Driver: [signature] Registration #: 45392 N CT Date: 6.3.10
Signature State / #
Acknowledgement of receipt of materials.

Transporter 3: TransWaste, Inc., 3 Barker Drive, Wallingford, CT 06492 (203) 269-8300
Name Address Telephone #
Driver: _____ Registration #: _____ Date: _____
Signature State / #
Acknowledgement of receipt of materials.

Site ☑: Modern Landfill	Site ☐: BFI Imperial Landfill	Site ☐: Hakes Landfill	Site ☐:
Address: 4400 Mount Pisgah Rd.	Address: 11 Boggs Road	Address: 4376 Manning Ridge Rd.	Address:
York, PA 17402	Imperial, PA 15126	Painted Post, NY 14870	
Phone: 717-246-4615	Phone: 724-695-0900/L15Y75028	Phone: 607-937-6044	Phone:

Certification of receipt of materials covered by this manifest.

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

T. Sherbine — Name of Authorized Agent
T. Sherbine — Signature
6 3 10 — Receipt Date

COPY 1 - GENERATOR

TRC
21 Griffin Road North
Windsor, CT 06095
860-298-9692

Edition: September 2009
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 164560.1740.0003 Date: 5/14/10 Page 1 of 1

Client: CT DPW - Durant Bldg.

Site: Oral School

Address: Oral School Rd
Mystic

Contact/Name: _____ Phone: _____

Sampler Print: Helen Rimsa Signature: Helen Rimsa Date: 5/14/10

Analyst Print: Helen Rimsa Signature: Helen Rimsa Date Analyzed: 5/17/10

QC Analyst Print: Helen Rimsa Signature: Helen Rimsa Date Analyzed: 5/17/10

Lab Supervisor Print: K Williamsa Signature: K Williamsa Date Issued: 5/17/10

Rotometer No.: L-17 and H-27 Date of Calibration: 5/4/10 Lab No. 38309

Microscope No. _____ Received in Lab for Analysis: ☒ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: _____
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.369	0.608
20.5 to 50/100	0.296	0.502
>50/100	0.205	0.454

Sample No.	1	2	3	4	5	6	7	8
Sampling Location/Comments	Work Area	Clearance	Clearance	Clearance	Clearance	Clearance	FB	FB
Type of Sample								
Pump Number								
Start Time/Stop Time	1245 1805	1645 1805	1645 1805	1645 1805	1645 1805	1645 1805		
Total Time (min)	~~80~~ 320 ✓	80 ✓	80 ✓	80 ✓	80 ✓	80 ✓		
Flow Rate	2.2 2.2	15 15	15 15	15 15	15 15	15 15		
Total Volume (l)	~~1200~~ 704	1200 ✓	1200 ✓	1200 ✓	1200 ✓	1200 ✓		
FB ___ BFB FL ___ BFL	3/100	6/100	6/100	4/100	3/100	3/100	0	
Filter Fiber Conc. (fibers/mm²)	3.8 ✓	7.6 ✓	7.6 ✓	1.3 ✓	3.8 ✓	3.8 ✓	0/100 ✓	0/100 ✓
Airborne Fiber Conc. (fibers/cc)	ND <0.004 ✓	0.0030	0.003 ✓	ND <0.002 ✓	ND <0.002 ✓	ND <0.002 ✓	— ✓	— ✓

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Helen Rimsa Date 5/17/10 Time 0700
Received By: [signature] Date 5/17/10 Time 0930
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

Condition of Sample: OK
Acceptable: Y ✓ N ____
Comments: _____

TRC Laboratory Asbestos Analytical Certifications:
CT#PH-0426 MA#AA000052 NY#10980 RI#AAL-007C3
ME#LB-0071 VA#3333000283 TX#300354 VT#AL014538
AIHA/PAT#100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
6	7/100	HR 5/17/10	LAB

AIHA
Your Essential Connection: Advancing Occupational and Environmental Health and Safety Globally
2700 Prosperity Ave., Suite 260, Fairfax, VA 22031 U.S.A.
(703) 849-8888; Fax (703) 207-3561; www.aiha.org

LABORATORY QUALITY ASSURANCE PROGRAMS

SOUND DATA SMART DECISIONS

AIHA Laboratory Quality Assurance Programs
SCOPE OF ACCREDITATION

TRC Environmental Corporation
21 Griffin Road North, Windsor, CT 06095

Laboratory ID: **100122**
Issue Date: 08/01/2008

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or revocation. A complete listing of currently accredited Industrial Hygiene laboratories is available on the AIHA website at: http://www.aiha.org/Content/LQAP/accred/AccreditedLabs.htm

Industrial Hygiene Laboratory Accreditation Program (IHLAP)

Initial Accreditation Date: 09/01/1984

IHLAP Category	Field of Testing (FoT)	Method	Method Description *(for internal methods only)*
Core Program Testing	Polarized Light Microscopy (PLM)	EPA/600/R-93/116	
	Phase Contrast Microscopy (PCM)	NIOSH 7400	

The laboratory participates in the following AIHA* or AIHA-approved proficiency testing programs:

- ☐ Metals*
- ☐ Silica*
- ✓ Asbestos*
- ☐ Bulk Asbestos*
- ☐ Beryllium*
- ☐ WASP[1] (Thermal Desorption Tubes)
- ☐ Pharmaceutical Round Robin
- ☐ Compressed/Breathing Air Round Robin
- ✓ NVLAP (determined at the time of site assessment)
- ☐ Organic Solvents*
  - ☐ Diffusive Sampler (3M)*
- ☐ Diffusive Sampler (SKC)*
- ☐ Diffusive Sampler (AT)*
- ☐ WASP[1] (Formaldehyde)

[1] Workplace Analytical Scheme for Proficiency

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

TRC ENVIRONMENTAL CORPORATION

LOCATED AT 21 Griffin Road North IN Windsor, CT 06095

AND REGISTERED IN THE NAME OF Erik Plimpton

THIS CERTIFICATE IS ISSUED IN THE NAME OF Kathleen Williamson WHO HAS BEEN DESIGNATED BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

ASBESTOS
AIR-FIBER COUNTING - PCM
BULK IDENTIFICATION - PLM

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES December 31, 2011 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 2nd DAY OF December 2009

Registration No.

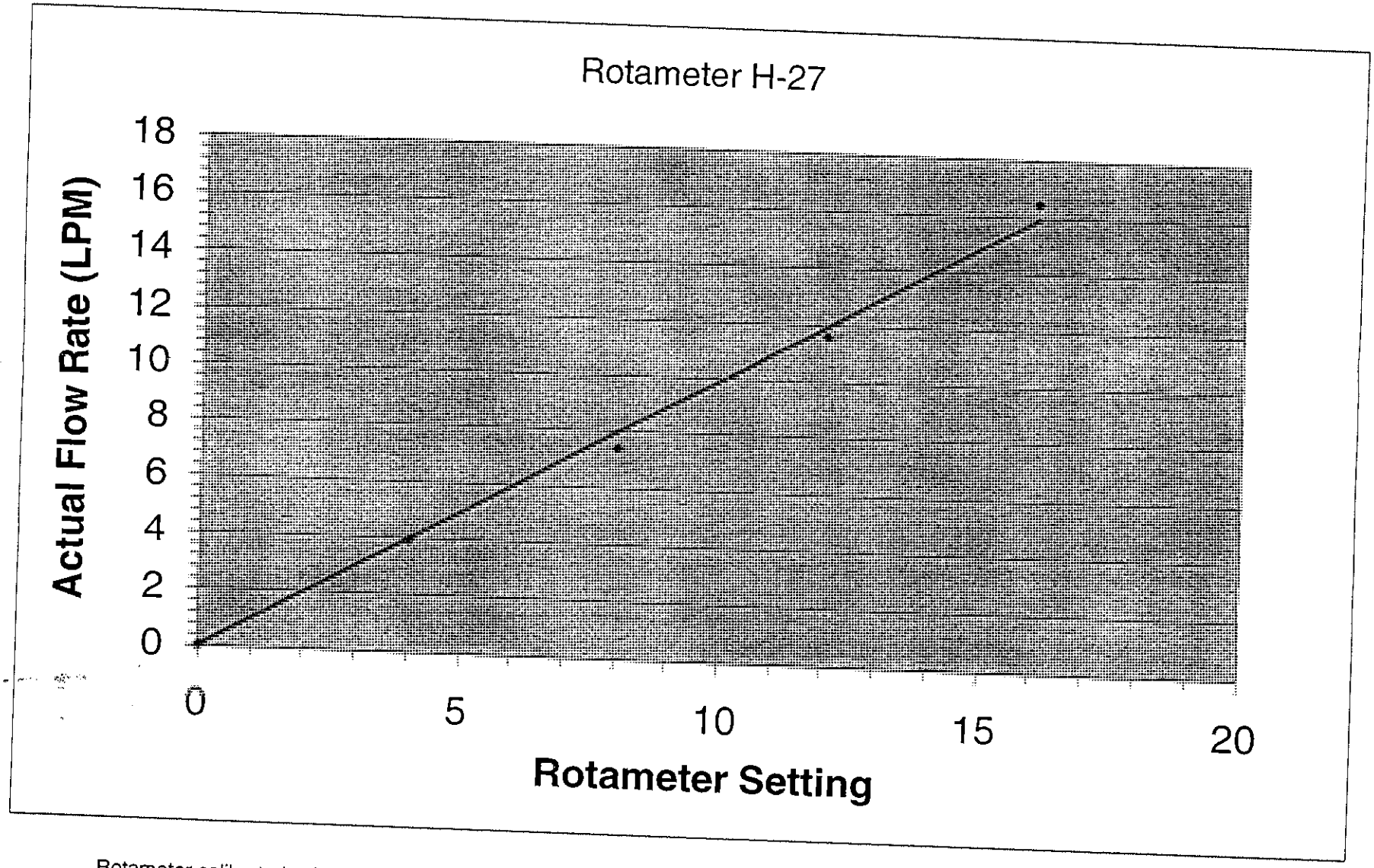
PH- 0426

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION

8	7.4
12	11.6
16	16.5

By: K. Williamson

TSI # 4146 0650 010



Rotameter calibrated using center of ball

Rotameter H-27 (05-04-10).xls

ing center of ball

ameters\2010\Low Flow\Rotameter L-17 (05-04-10).xls

AIHA
Your Essential Connection

Asbestos Analysts Registry

Retain For Your Records

November 6, 2007

Organization ID: **100122**
Analyst ID: **3490**

TRC Environmental Corporation
Helen Rimsa
21 Griffin Road North
Windsor, CT 06095

Dear Ms. Rimsa

Congratulations! The American Industrial Hygiene Association (AIHA) Analytical Accreditation Board (AAB) has approved your listing in the Asbestos Analyst Registry (AAR). This Board Approval takes effect **November 6, 2007**. You are now listed on the AIHA website as an Asbestos Analysts Registry (AAR) Board Approved Analyst

http://www.aiha.org/1documents/lab/AARAnalysts.pdf.

Your Board Approval status will remain current as long as you maintain two or less outliers in the two most current consecutive Asbestos Analytical Testing (AAT) rounds. You will automatically lose your Board Approval status if you cease analyzing AAT samples with an approved organization, or you transfer to an unapproved organization.

If you should receive more than two outliers in two consecutive rounds, your AAT Performance Results report will show that you are "not acceptable." To regain your Board Approval, your options are:

1) Purchase the current round retest to successfully override the results; or
2) Analyze the next regularly scheduled AAT round or next two consecutive AAT rounds (whichever is appropriate) with no more than 2 outliers cumulatively to regain Board Approval status.

If you foresee non-participation in a future AAT round, in order to retain Board Approval status, AIHA requires a letter requesting an excused absence from that round before the date that the results are due for that particular round. Please note that excused absences will not be granted for two consecutive AAT rounds.

Congratulations again and thank you for your continued participation in the Asbestos Analyst Registry program. If you have any questions please do not hesitate to contact Mrs. Carter Dezio, AAR Program Specialist at 703-846-0798 or cdezio@aiha.org.

Sincerely,

Cheryl O. Morton

Cheryl Morton
Director, LQAP

AIHA
2700 Prosperity Avenue, Suite 250
Fairfax, VA 22031
Phone: 703-849-8888; Fax: 703-207-8558

Dear Licensed/Certified Professional,

Attached you will find your validated license/certification for the coming year. Should you have any questions about your license/certificate renewal, please do not hesitate to write or call:

Department of Public Health **(860) 509-7603**
P.O. Box 340308
M.S.#12MQA **http://www.dph.state.ct.us**
Hartford, CT 06134-0308

Sincerely,

J. Robert Galvin, MD, MPH, MBA

J. ROBERT GALVIN, MD, MPH, COMMISSIONER
DEPARTMENT OF PUBLIC HEALTH

0003647 FP **PRSRT T1 0 0964 06232

HELEN RIMSA
75 SCHOOL RD
ANDOVER CT 06232-1526

INSTRUCTIONS:

1. Detach and sign each of the cards on this form.
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.
4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
HELEN RIMSA

VALIDATION NO.	LICENSE NO.	CURRENT THROUGH
03-046496	000660	03/31/11

PROFESSION
ASBESTOS CONSULTANT-PROJECT MONITOR

Helen Rimsa — SIGNATURE
J. Robert Galvin, MD, MPH, MBA — COMMISSIONER

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT-PROJECT MONITOR

HELEN RIMSA

LICENSE NO.
000660
CURRENT THROUGH
03/31/11
VALIDATION NO.
03-046496

Helen Rimsa — SIGNATURE
J. Robert Galvin, MD, MPH, MBA — COMMISSIONER

Room XX109 84/84

PO# 105066

AIR SAMPLING / NIOSH METHOD 7400 SAMPLE RECORD

Mill.Y__N__
Faxed____
Called____
Logged____

Sample Source MyStic, ORAl, Sch. DURANT HALL Job #105066

Sampled by D WATSON Date Sampled 5/14/10 Customer Name A.A.I.S. Inc.

Analyst_____ Date Received_____ Date Tested_____

Sample #/ Description	Time Start	Time End	Flow l/m Start	Flow l/m End	Liters	f/ flds	f/ mm2	f/cc	LOD f/cc
Date: 5/14/10 Mask: 1/2 Face Name: D WATSON SS# 8072 Code: 5 Task: Sheet Rock Ceiling	2:55	2:25	3.5	3.0		30/100	38.2	0.151	✓
Date: 5/14/10 Mask: 1/2 Face Name: D WATSON SS# 8072 Code: 1 Task: Sheet Rock Ceiling	2:25	5:00	3.0	2.5		22/100	28.0	0.025	✓
Date: Mask: Name: SS# Code: __ Task:	LB					0/100		—	✓
Date: Mask: Name: SS# Code: __ Task:	FB					0/100		—	✓
Date: Mask: Name: SS# Code: __ Task:		QCT Analyst: Helen Rimsa Helen Rimsa 5/17/10 Lab Sup: K Williamson K Williamson 5/17/10							

QC 24/100

Report Reviewed by_____ Date_____ Blank(s) Received? Y ✓ N____

Field Blanks Laboratory Blank { (1) Done (2) Done

Reference Slide #:

Project Sheet Rock Ceiling Removal

Location MyStic ORAl Sch. Road Groton CT.

Foreman Dudley WATSON

Superintendent Chris Per.

Sample Codes:
1-Personal
2-Work Area
3-Outside Area
4-Final Clearance
5-Excursion

I, D Watson hereby swear that all information on this form is true and if applicable all personal air samples were worn by employees as listed above.

Recd by: K Williamson 5/17/10 0930

TRC

DAILY SIGN-IN SHEET

CLIENT _____

SITE Mystic Ed. Ctr- Durant Bldg

JOB # 167560-1740-0003

TRC REPRESENTATIVE Helen Rimsa

NOTE: ALL PERSONS ENTERING & EXITING THE WORK AREA MUST SIGN IN & OUT

DATE	NAME	COMPANY	DESTINATION	PROTECTIVE CLOTHING	PURPOSE OF ENTRY	TIME IN	TIME OUT
5/14/10	Dudley Watson	tts	Containment	OSHA reqrd	work	1245	1845
	B. Sullivan	↓	↓	↓	↓	↓	↓

Concentra
333 Kennedy Dr.
Torrington, CT 06790
Tel: 860 482 4652
Fax: 860 496 1033

DATE OF RADIOGRAPH

MONTH	DAY	YEAR
06	19	2009

DAVID G. KERN, M.D., M.O.H.
37 BALD MOUNTAIN ROAD
CAMDEN, ME 04843

WORKER'S NAME: WATSON, Dudley

ROENTGENOGRAPHIC INTERPRETATION

TYPE OF READING: [ ] A [X] B [ ] P

DATE OF BIRTH: 05 31 1957

1. FILM QUALITY: 1 [X] 3 U/R (If not Grade 1, mark all boxes that apply)

[ ] Overexposed (dark) [ ] Underexposed (light) [ ] Artifacts [ ] Improper position [ ] Poor contrast [ ] Poor processing [ ] Underinflation [ ] Mottle [X] Other (please specify)

Chest wall soft tissue overlying lower lung fields, left more than so than right

2A. ANY PARENCHYMAL ABNORMALITIES CONSISTENT WITH PNEUMOCONIOSIS? YES [ ] Complete Sections 2B and 2C NO [X] Proceed to Section 3A

2B. SMALL OPACITIES

a. SHAPE/SIZE

PRIMARY		SECONDARY	
p	s	p	s
q	t	q	t
r	u	r	u

b. ZONES

	R	L
UPPER		
MIDDLE		
LOWER		

c. PROFUSION

0/-	0/0	0/1
1/0	1/1	1/2
2/1	2/2	2/3
3/2	3/3	3/4

2C. LARGE OPACITIES

SIZE: O A B C Proceed to Section 3A

3A. ANY PLEURAL ABNORMALITIES CONSISTENT WITH PNEUMOCONIOSIS? YES [ ] Complete Sections 3B, 3C NO [X] Proceed to Section 4A

3B. PLEURAL PLAQUES (mark site, calcification, extent, and width)

Chest wall	Site	Calcification
In profile	O R L	O R L
Face on	O R L	O R L
Diaphragm	O R L	O R L
Other site(s)	O R L	O R L

Extent (chest wall; combined for in profile and face on)
Up to 1/4 of lateral chest wall = 1
1/4 to 1/2 of lateral chest wall = 2
> 1/2 of lateral chest wall = 3

O R: 1 2 3 O L: 1 2 3

Width (in profile only) (3mm minimum width required)
3 to 5 mm = a
5 to 10 mm = b
> 10 mm = c

O R: a b c O L: a b c

3C. COSTOPHRENIC ANGLE OBLITERATION R L Proceed to Section 3D NO [ ] Proceed to Section 4A

3D. DIFFUSE PLEURAL THICKENING (mark site, calcification, extent, and width)

Chest wall	Site	Calcification
In profile	O R L	O R L
Face on	O R L	O R L

Extent (chest wall; combined for in profile and face on)
Up to 1/4 of lateral chest wall = 1
1/4 to 1/2 of lateral chest wall = 2
> 1/2 of lateral chest wall = 3

O R: 1 2 3 O L: 1 2 3

Width (in profile only) (3mm minimum width required)
3 to 5 mm = a
5 to 10 mm = b
> 10 mm = c

O R: a b c O L: a b c

4A. ANY OTHER ABNORMALITIES? YES [ ] Complete Sections 4B, 4C, 4D, 4E NO [X] Proceed to Section 5

4B. OTHER SYMBOLS (OBLIGATORY)

aa at ax bu ca cg cn co cp cv di ef em es fr hi ho id ih ki mo pa pb pi px m rp tb

OD If other diseases or significant abnormalities, findings will be recorded in section 4C/4D.

4E. Should worker see personal physician because of findings in section 4? YES [ ] NO [ ]
Proceed to Section 5

Date Physician or Worker notified?

MONTH	DAY	YEAR

5. FILM READER'S INITIALS: DGK

DATE OF READING

MONTH	DAY	YEAR
06	23	2009

4C/4D.

6/24/09

JUN. 25. 2009 11:42AM CONCENTRA~TORRINGTON CT NO. 7957 P. 8

Service ID: 1188401823
X-ray Number:

Concentra Medical Centers (CT)
339 Kennedy Dr Ste 202 TORRINGTON, CT 06790
Phone: (860) 482-4852 Fax: (860) 496-1003

Service Date: 06/19/2009
Case Date: 06/19/2009

Non-Injury Flowsheet

Patient: Watson, Dudley
SSN: 109-72-6072
Age: 52 DOB: 05/31/1957
Address: 246 Mansion street
POUGHKEEPSIE, NY 12601
Home: (845) 454-6360
Work: Ext.:

Employer: AAIS
Employer Location: AAIS
Address: 802 Boston Post Rd
West Haven, CT 065161828
Auth. by:

Contact: Mercedes Sherman
Phone: (203) 932-2992 Ext.:
Contact: Mercedes Sherman
Role: Primary Contact
Phone: (203) 932-2992 Ext.:
Fax: (203) 932-9892

Examination Results

___ No Status Required
___ Recommend Further Evaluation

Medical Evaluation Results

✓ Medical Evaluation Within Normal Limits
___ Medical Evaluation NOT Within Normal Limits
___ Not Applicable

Medical Restrictions

___ Medical Restrictions
✓ No Medical Restrictions

Pending Results

___ Pending Results
___ Pending Medical Hold
___ Pending Medical Records
___ Pending Process Completion
___ No Pending

Remarks:

Medical Implications

___ Cardiovascular
___ Diabetes
___ Hypertension
___ Medications
___ Myocardial Infarction
___ Physical Impairment
___ Other (Comments Required)

___ Seizures
___ Vision
___ Unverified Medical Information
___ Unresolved Medical Hold
___ Certification less than 2 years

___ Medication Allergy(s) (Comments Required)

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JUN. 25. 2009 11:42AM CONCENTRA~TORRINGTON CT NO. 7957 P. 6

Concentra Medical Centers (CT)
833 Kennedy Dr Ste 202 TORRINGTON, CT 06790
Phone: (860) 482-4552 Fax: (860) 496-1033
Medical Surveillance - Asbestos

Service Date: 06/19/2009

Patient:	Watson, Dudley	Job Title:	
SSN:	XXX-XX-8072	Employer:	AAIS
DOB:	05/31/1957	Address:	802 Boston Post Rd
Gender:	M		West Haven, CT 06516 1828
Marital Status:	S	Job Contact:	Mercedes Sherman
Address:	246 Mansion street	Role:	Primary Contact
	POUGHKEEPSIE, NY 12601	Phone:	(203) 932-2992 Ext.:
Home Phone:	(845) 454-5360	Fax:	(203) 932-9892
Work Phone:	Ext.:	Race:	ASIAN BLACK HISPANIC INDIAN WHITE OTHER

The above individual was seen on 06/19/2009 in accordance with: ____29 CFR 1926.1101.
____40 CFR 763.121.

The following was performed:

- [x] Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101.
- [ ] Review of the employer's description of: this employee's duties as they relate to the employee's exposure, the employee's representative or anticipated exposure level, and personal protection equipment to be utilized by the employee.
- [ ] Review of information from previous medical examinations if available.
- [x] A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems.
- [x] A pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV 1) in accordance with NIOSH and ATS standards.
- [x] A chest roentgenogram, posterior-anterior, 14x17 inches (or current film on file) with interpretation in accordance with 29 CFR 1926.1101. (M)(2)(ii)(C).
- [ ] NOTE: According to 29 CFR 1926.1101 (M)(2)(ii)(C), it is up to the discretion of the physician whether or not a chest X-ray is required.
- [x] The employee was informed by the physician of the results of the exam and of any medical conditions that may result from asbestos exposure including the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Unless otherwise noted below, this evaluation indicates that there are no detected medical conditions that would place the employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

Comments or limitations (if any): _____

John [signature] MC
Provider Signature

6/19/09
Date

© 1998 - 2009 Concentra
JUN. 25. 2009 11:41AM CONCENTRA~TORRINGTON CT NO. 7957 P. 4

Initial

Superior Industries LLC

SUPERIOR INDUSTRIES L.L.C.

Committed to a Clean Environment

Certificate of Completion

Awarded to

Dudley Watson

(SSN 109-72-8072) (DOB 5-31-57)

Has completed a 40 Hour 5 Day Approved Course of Instruction in Asbestos Abatement Removal and Disposal (AARD)

Supervisor Initial

September 14,1998 to September 18,1998

Required by OSHA and the EPA Revised MAP for accreditation under the TSCA Title 11 as self-certified by Trainer 8/5/97

Required by Connecticut Regulations 19a-332-21

SUPERIOR INDUSTRIES LLC
290 Beach Road
Wolcott, Ct. 06716
203-879-8531 (voice)
860-620-1134 (fax)

Examination Date: September 18,1998
Expiration Date: September 18,1999
Certificate Number: 109-72-8072

Earl R. Clark, Training Director

Jul 15 2002 05:19PM P6

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
DUDLEY A. WATSON

VALIDATION NO.
03-863441

CERTIFICATION NO.
000318

CURRENT THROUGH
05/31/10

PROFESSION
ASBESTOS ABATEMENT SUPERVISOR

SIGNATURE

COMMISSIONER

Concentra Medical Centers (CT)
701 Main Street EAST HARTFORD, CT 06108
Phone: (860) 289-5561 Fax: (860) 291-1095

Service Date: 02/05/2010

Asbestos Periodic Medical Questionnaire

Respiratory System

In the past year have you had:			If YES, please explain:
Asthma	___YES	✓ NO	
Bronchitis	___YES	✓ NO	
Hay Fever	___YES	✓ NO	
Other Allergies	___YES	✓ NO	
Pneumonia	___YES	✓ NO	
Tuberculosis	___YES	✓ NO	
Chest Surgery	___YES	✓ NO	
Other Lung Problems	___YES	✓ NO	
Heart Disease	___YES	✓ NO	

Do you have:			
Frequent colds	___YES	✓ NO	
Chronic cough	___YES	✓ NO	
Shortness of breath when walking, climbing stairs	___YES	✓ NO	

Do you:			
Wheeze	___YES	✓ NO	
Cough up phlegm	___YES	✓ NO	
Smoke cigarattes	___YES	✓ NO	_____ Packs per day, for _____ years

Signature

2/5/10
Date

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Spirometry Report
Puritan-Bennett Renaissance II
S/N: G080701896
Version: 1.1.11

Session Date: 05FEB2010
Session Time: 05:01PM
Last Cal Check: 05FEB2010

BEST 3 FVC/FVL REPORT

ID	044565233	Height:	73"	Physician:		Sensor Code:	230547
N	BRIAN SULLIVAN	Age:	45YRS	Technician:		Temperature:	70F
Gender:	MALE	Weight:	220LBS			Barometric Press:	760mmHg
Medication:		Smoker:	NO			BTPS Correction:	1.110
Dosage:		Ethnicity/Correction:	CAUCASIAN		100.0%	Normals:	KNUDSON 83

Clinical Format: PREMED - 05:02PM
Best Criteria: * Indicates Best Value
VAL

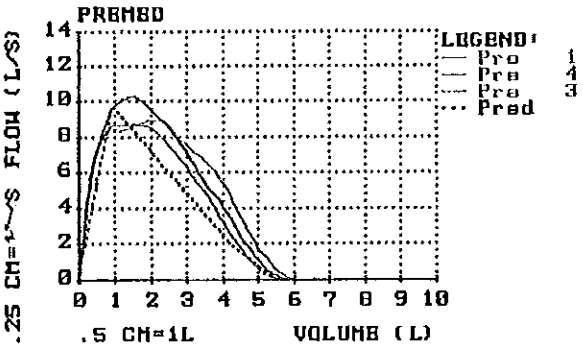
< Indicates Below LLN

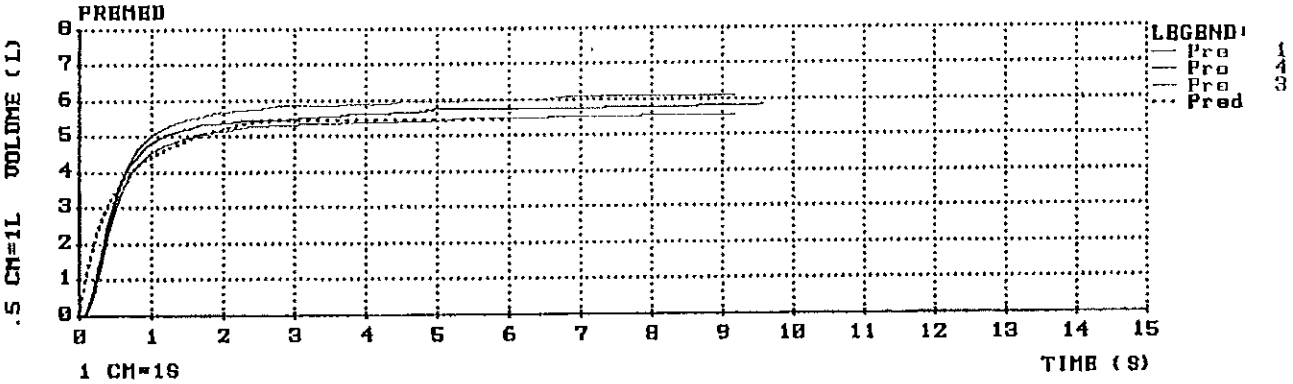
MEASUREMENT	Trial 1	%Pred	Trial 4	Trial 3	Pred	LLN
FVC (L)	6.17*	112	5.90	5.64	5.49	4.03
FEV1 (L)	5.26*	117	5.03	4.78	4.47	3.45
FEV1%	85	105	85	85	81	70
FEF25-75 (L/S)	6.43*	140	6.02	5.64	4.56	
PEF(L/S)	9.13*	92	10.40	8.78	9.82	
FET (S)	8.63*		9.09	8.80		

BEST FEV1% 85*

Report Summary:
Pre Med: Tests 4 Acceptable 4 Reproducible 0 FVC VAR: 270ML FEV1 VAR: 229ML PEF VAR: 1270ML/S

ENRIGHT Interpretation: PREMED - Normal Spirometry
Comment:





David Feinstein, MD.

Concentra Medical Centers (CT)
701 Main Street EAST HARTFORD, CT 06108
Phone: (860) 289-5561 Fax: (860) 291-1895

PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

Service Date: 02/05/2010

Employee Name:
Sullivan, Brian P.

Employee SSN: XXX-XX-5233

Address:
103 Saddle Hill Drive

MIDDLETOWN CT 06457

Employer: AAIS

You were evaluated in this office of your medical status related to your physical capability to wear a respirator. (Check ✓ one that applies)

- ☑ There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- ☐ The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

Based upon the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)

- ☑ ARE qualified to wear a respirator.
- ☐ Have the following restrictions concerning respirator usage: _____
- ☐ ARE NOT qualified to wear a respirator.
- ☐ Require further testing by your private physician who must submit a written report of his/her findings to Concentra Medical Centers (CT) so that a final decision on your ability to wear a respirator can be made.
- ☐ Must wear Special prescription eye-wear needed to accommodate respirator.
- ☐ Must use an Eye glass conversion kit.
- ☐ May need to shave Facial hair to assure tight seal on certain face masks.
- ☐ Need to stop smoking.

(Check ✓ ALL that apply)

- ☑ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☐ The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☑ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator.Refer to product literature and packaging for specific information regarding fit, use and/or limitations.

PLHCP Signature

David Feinstein, MD.
PLHCP Name (printed)

Employee's Signature

2/5/11
Expiration Date

[1]Physician or other Licensed Healthcare Professional

To be maintained in the employee's file with a copy to the employee

CERT# A-714S - 698

CHEMSCOPE TRAINING DIVISION

ASBESTOS CONTRACTOR/SUPERVISOR INITIAL

40 HOUR TRAINING CERTIFICATE

Brian Sullivan

802 Boston Post Road , West Haven CT

Has attended a 40 hour Course on the subject discipline on

05/11-05/15/2009 and has passed a written examination

"The person receiving this certificate has completed the requisite training required for asbestos accreditation as a supervisor under TSCA Title II"

Course topics include asbestos physical properties, health hazards, respiratory protection, procedures for asbestos abatement, protective clothing, air monitoring, government regulations, equipment and supplies, planning work areas, removal practices and procedures, use of the glove bag, and safety hazards other than asbestos, legal issues, insurance and bonding record keeping, building systems, supervisory techniques, and contract specifications. The course includes lecture, demonstration, and hands on training.

Examination Date: 05/15/2009

Expiration Date: 05/15/2010

This training course has been accredited by the State of Connecticut.

Ronald D. Arena or John Rowinski
Training Director Training Manager

Chem Scope, Inc.
15 Moulthrop Street.
North Haven CT 0647
(203)-865-5605

Made in U.S.A.

State of Connecticut

Lookup Detail View

Name

Name
BRIAN P SULLIVAN

License Information

License Type	License Number	Expiration Date	Granted Date	License Name	License Status	Past Discipline or Pending Charges
Asbestos Abatement Supervisor	4199	06/30/2011	02/16/2010	BRIAN P SULLIVAN	ACTIVE	None

Generated on: 6/10/2010 9:02:11 AM

APPENDIX E

TEM LABORATORY ANALYSIS DATA

TRC
Industrial Hygiene Laboratory
21 Griffin Road North
Windsor, CT 06095
(860) 298-6308

BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Public Works

Site: Mystic Educational Center
Lab Log #: 36438
Project #: 106957.9335.0001
Date Received: 12/15/08
Date Analyzed: 12/16/08

RESULTS

Sample No.	Color	Homogeneous	Multi-Layered	Layer No.	Other Matrix Mat'ls	Asbestos %	Asbestos Type
1	Beige (joint compound)	No	Yes	1	--	ND<1%	None
1	White (sheetrock)	No	Yes	2	10% cellulose	ND<1%	None
2	Beige (joint compound)	No	Yes	1	--	ND<1%	None
2	White (sheetrock)	No	Yes	2	10% cellulose	ND<1%	None
3	Beige (joint compound)	No	Yes	1	--	ND<1%	None
3	White (sheetrock)	No	Yes	2	10% cellulose	ND<1%	None
4	Colorless (glue)	No	Yes	1	--	ND<1%	None
4	Brown (covebase)	No	Yes	2	--	ND<1%	None
5	Colorless (glue)	No	Yes	1	--	ND<1%	None
5	Brown (covebase)	No	Yes	2	--	ND<1%	None
6	Light Brown	Yes	No	--	--	ND<1%	None
7	Light Brown	Yes	No	--	--	ND<1%	None
8	Pink	Yes	No	--	--	ND<1%	None
9	Pink	Yes	No	--	--	ND<1%	None
10	Tan	Yes	No	--	5% cellulose	ND<1%	None
11	Tan	Yes	No	--	5% cellulose	ND<1%	None
12	Tan	Yes	No	--	--	ND<1%	None
13	Tan	Yes	No	--	--	ND<1%	None
14	Tan	Yes	No	--	--	ND<1%	None

NT10805

Proscience Analytical Services, Inc.

22 Cummings Park, Woburn, MA 01801 Ph. 781-935-3212 Fax 781-932-4857

TEM Bulk Chain of Custody Record

Date: 12/16/08

Analysis Type: Chatfield N.O.B N.Y.S Qualitative

Client: TRC
Client Job#: 106957. 9335.0001
Client Job Ref./Loc.: CT DPW-Mystic Educational Center
Relinquished by: H. Rimsa
Received by:
Report to: E. Plimpton
Samplers Name: J. Gentile

Turn Around Time: <12 Hour <24 Hour **<48 Hour** <3 Day 5 Day Other:

					For Lab Use Only
Client ID #	**Lab ID#**	**Description**	**Location**	**Acceptable on Receipt**	**Comments**
4	36438	Glue & Covebase			
6	36438	Glue Only			
8	36438	Covebase Only			
10	36438	Glue Only			
17	36438	Window Glaze			

For Lab Use Only	# Spies	Total	Client #	Batch #	Results Reported	Comments

TRC

Edition: September 2007
Supersede Previous Edition

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 36438

PROJECT NUMBER	PROJECT NAME
106957.9285 .0001 9335	CT DPW Mystic Educational Center
SIGNATURE	**INSPECTOR**
Jonathan D. Gentile	Jonathan D. Gentile

TURNAROUND TIME

PLM:		24hr	X	48hr		3day		5day
TEM:		24hr	X	48hr		3day		5day

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM NY NOB 198.1 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
1	12/15/08			X	Durant Bldg O/S Rm 225	X		X			Sheetrock/Joint Compound (SR/JC1)
2	12/15/08			X	Durant Bldg O/S Rm 225	X		X			Sheetrock/Joint Compound (SR/JC1)
3	12/15/08			X	Durant Bldg O/S Rm 225	X		X			Sheetrock/Joint Compound (SR/JC1)
4	12/15/08			X	Durant Bldg O/S Rm 225	X				X	4" Brown Covebase and glue (CB1)
5	12/15/08			X	Durant Bldg O/S Rm 225	X					4" Brown Covebase and glue (CB1)
6	12/15/08			X	Durant Bldg Rm 225	X				X	Ceramic Wall Tile Glue (CWTG1)
7	12/15/08			X	Durant Bldg Rm 225	X					Ceramic Wall Tile Glue (CWTG1)
8	12/15/08			X	Durant Bldg Rm 225	X				X	6" Pink Covebase (CB2)
9	12/15/08			X	Durant Bldg Rm 225	X					6" Pink Covebase (CB2)
10	12/15/08			X	Durant Bldg Custodial Closet	X				X	Ceramic Floor Tile Glue (CFTG1)
11	12/15/08			X	Durant Bldg Custodial Closet	X					Ceramic Floor Tile Glue (CFTG1)

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
Jonathan D. Gentile	12/15/08	12/15/08			
(Printed) Jonathan D. Gentile	Time:	(Printed) 1445 Williamson	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples: OK
Acceptable: Yes ✓ No
Comments:

National Voluntary
Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ProScience Analytical Services, Inc.
22 Cummings Park
Woburn, MA 01801-2122
Mr. Adrian Stanca
Phone: 781-935-3212 Fax: 781-932-4857
E-Mail: kobab@aol.com
URL: http://www.proscience.net

BULK ASBESTOS FIBER ANALYSIS (PLM) **NVLAP LAB CODE 200090-0**

NVLAP Code	*Designation / Description*
18/A01	EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

2008-01-01 through 2008-12-31
Effective dates

Sally S. Bruce
For the National Institute of Standards and Technology

NVLAP-01S (REV. 2005-05-19)

State of Connecticut, Department of Public Health

Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT, FOR MAKING THE EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

PROSCIENCE ANALYTICAL SERVICES, INC.

LOCATED AT 22 Cummings Park IN Woburn, MA 01801

AND REGISTERED IN THE NAME OF Adrian Stanca

THIS CERTIFICATE IS ISSUED IN THE NAME OF Adrian Stanca - Director, Martha Kneizys – Co-Director Chemistry WHO HAS BEEN DESIGNATED BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

NON-POTABLE WATER/ WASTEWATER, SOLID WASTE/SOIL
INORGANICS

ENVIRONMENTAL HEALTH & HOUSING
LEAD IN PAINT
LEAD (PAINT) IN SOIL
LEAD IN DUST WIPES

ASBESTOS
AIR
BULK MATERIALS
WATER

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES December 31, 2008 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 20th DAY OF December 2006

Registration No.

PH-0209

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101424-0

TRC Environmental Corporation

Windsor, CT

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated 18 June 2005).

2008-07-01 through 2009-06-30

Effective dates

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

Sally S. Bruce

For the National Institute of Standards and Technology

NVLAP-01C (REV. 2006-09-13)

CERTIFICATE OF ACHIEVEMENT

This certifies that

Jonathan Gentile

has successfully completed the

Asbestos Site Inspector Refresher Training
Asbestos Accreditation Under TSCA Title II
40 CFR Part 763

conducted by

ATC Associates Inc.
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Gregory J. Morsch
Principal Instructor

January 3, 2008
Date of Course

January 3, 2009
Expiration Date

Gregory J. Morsch
Regional Manager

SIAR-2643
Certificate Number

January 3, 2008
Examination Date

APPENDIX B

LABORATORY AND INSPECTOR ACCREDITATIONS

Mystic Air Quality Consultants, Inc.

1204 North Road (Rt. 117) Groton, Connecticut 06340

January 23, 2006

Lead Paint Sample Results for Fire Escapes!

Ms. Dawn Flannegan
Mystic Education Center
240 Oral Road
Mystic, Connecticut 06355

Re: Laboratory Analysis Lead-in-Paint Sampling
Mystic Education Center
Mystic, Connecticut
Location: Anteon Building - Fire Escapes

Dear Mr. Flannegan:

As requested, Mystic Air Quality Consultants had analyzed for lead content paint samples that were collected from the location noted above on January 17, 2006. The samples were analyzed by EMSL Analytical (NVLAP # 101048-0) in New York.

Identification was performed using atomic absorption spectrophotometry (AAS). The analysis results reflect the content of the samples and applies only to the submitted samples.

The paint samples collected from the white, green and blue painted fire escapes did not exceed the recommended standard of 0.5% and would not be considered significant levels of lead in paint.

Please do not hesitate to contact us with questions or comments relating to the sample result and any subsequent work that may be performed by your company. We thank you for selecting Mystic Air Quality to perform your sampling and analysis.

Sincerely,

Richard Haffey

Richard Haffey
President

Communications (24 hours):

Office: (860) 449-8903 FAX: (860) 449-8860 Toll Free: 1 (800) 247-7746

website: www.mysticair.com e-mail:maqc2@aol.com

Fax Transmittal Cover Sheet

Mystic Air Quality Consultants
1204 North Road, Groton, CT 06340

Phone: 860 449 8903
Fax: 860 449 8860
E-mail: maqc2@aol.com

Visit at our website
www.mysticair.com

Helping clients breathe easier since 1987

Date of facsimile transmittal: 1 / 23 / 2006

Reply Requested? Yes No

TO: David Flannagan

Fax #: 536-4222

FROM: Connie for Rick

Number of pages 5
(including this cover sheet)

Message:

Fax Copy also sent to:

[ ]

[ ]

MasterCard

VISA

Visit our 2005 Training Calendar on our web site

Mystic Air Quality Consultants

1204 North Road (Rt. 117)
Groton, CT 06340

Date 1/17/2006

Page ___ of ___

DAILY JOB LOG

Client Mystic Education Ctr. Site Supervisor

Site Location ANTeon Bldg

Containment Location FIRE ESCAPE

GENERAL OBSERVATIONS

Onsite to sample paint layers for lead content.

HYGIENIST'S NAME Stewart B. Miles

HYGIENIST'S SIGNATURE

TIME ON SITE: _____ TIME OFF SITE: _____

Telecommunications
Office: 860 449 8903
Nights & Weekends: 860 464 2050
FAX: 860 449 8860
Toll Free: 1 800 247 7746

EMSL Analytical, Inc.
307 West 36th Street, New York, NY 10018
Phone: (212) 290-0051 Fax: (212) 290-0058 Email: manhattanlab@emsl.com

EMSL

Attn: **Mystic Air Quality Consultants, Inc.**
1204 North Road (Rt. 117)
Groton, CT 06340

Fax: (860) 449-8860 Phone: (860) 449-8903
Project: MYSTIC ED CTR/ ANTEON BLDG

Customer ID: MYST50
Customer PO:
Received: 01/18/06 11:17 AM
EMSL Order: 030601650
EMSL Proj:

Report Date: 1/21/2006

Lead in Paint Chips by Flame AAS (SW 846 3050B and 7420*)

Client Sample Description		Lab ID	Analyzed	Lead Concentration
1	WHITE - FIRE ESCAPE	0001	1/21/2006	0.11 % wt
2	GREEN - FIRE ESCAPE	0002	1/21/2006	0.07 % wt
3	BLUE - FIRE ESCAPE	0003	1/21/2006	0.14 % wt

M Apfeldorfer

Miron Apfeldorfer
or other approved signatory

Reporting limit is 0.01 % wt. The QC data associated with these sample results included in this report meet the method quality control requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities.

* slight modifications to methods applied

ACCREDITATIONS: AIHA Environmental Lead Laboratory Approval Program #102581

Date Printed: 1/21/2006 7:29:02 PM

EMSL ANALYTICAL
CHAIN OF CUSTODY - LEAD

EMSL

Date: 1/17/2006

EMSL Representative: Andy DeJohn

Contact Name: Rich Haffey

Company Name: Mystic Air Quality

EMSL – Bill to: SAME

Street: 1204 North Road

Street:

Box #:

Box #:

City/State/Zip: Groton, CT 06340

City/State/Zip:

Phone: (860) 449-8903

Fax: (860) 449-8860

Project Name/ No.: Mystic Ed. Ctr Anton Bldg

MATRIX	METHOD	INSTRUMENT	mdls	# of samples
Lead Chips	SW846-7420	Flame Atomic Absorption	0.01%	3
Lead Soil	SW846-7420	Flame Atomic Absorption	50.0 mg/kg	
Lead in Wipe	SW846-7420	Flame Atomic Absorption	10.0 ug/wipe	
Lead in Air	NIOSH 7082	Flame Atomic Absorption	10.0 ug/filter	
Lead in Drinking Water	SW846-239.2	Graphite Furnace Atomic Absorption	5.0 ppb	
TCLP Lead	NIOSH 7300/7082 SW 846-1311	Flame Atomic Absorption	0.1 ppm	

TAT (turnaround) - Same Day 1 Day 2 Days 3 Days 4 Days 5 Days 6-10 Days

Relinquished: Date:

Received: [signature] Date: 1/18/06

SAMPLE DATE	SAMPLE #	LOCATION	AREA TESTED
1/17/2006	1	White Fire Escape	
"	2	Green "	
"	3	Blue "	

06 JAN 18 AM 11:17
SAMPLE CERT
FOR ANALYSIS
BY EMSL

EMSL MANHATTAN
RECEIVED

As per Rich, called @ 11:49 AM the TAT is 3-5 Days.
NL 1/18/06.

DAVE A.

Mystic Air Quality Consultants, Inc.

1204 North Road (Rt. 117) Groton, Connecticut 06340

February 14, 2006

Ms. Dawn Hannegan
Mystic Education Center
240 Oral School Road
Mystic, Connecticut 06355

Re: Laboratory Analysis Lead-in-Paint Sampling
Anteon Building
240 Oral School Road
Mystic, Connecticut
Location: Exterior Windows

Dear Ms. Hannegan:

As requested, Mystic Air Quality Consultants had analyzed for lead content paint samples collected from the exterior windows of the Anteon Building at the above address on February 10, 2006. The samples were analyzed by Environmental Hazards Services (101882-0) in Virginia.

Identification was performed using atomic absorption spectrophotometry (AAS). The analysis results reflect the content of the samples and applies only to the submitted samples.

The paint samples collected from the exterior windows of the Anteon Building did exceed the recommended standard of 0.5% and would be considered a significant level of lead in paint.

Please do not hesitate to contact us with questions or comments relating to the sample result and any subsequent work that may be performed by your company. We thank you for selecting Mystic Air Quality to perform your sampling and analysis.

Sincerely,

Richard Haffey

Richard Haffey
President

Communications (24 hours):

Office: (860) 449-8903 FAX: (860) 449-8860 Toll Free: 1 (800) 247-7746

website: www.mysticair.com e-mail:maqc2@aol.com

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237
804-275-4788 FAX 804-275-4907

LEAD IN PAINT ANALYSIS SUMMARY

CLIENT: Mystic Air Quality Consultants
1204 North Road, Rt. 117
Groton, CT 06340

DATE OF SAMPLING: 10 FEB 2006
DATE OF RECEIPT: 13 FEB 2006
DATE OF ANALYSIS: 13 FEB 2006
DATE OF REPORT: 14 FEB 2006

CLIENT NUMBER: 7-2564 B
EHS PROJECT #: 2006-02-1600
PROJECT: Mystic Education Ctr.; Antown Bldg.

EHS SAMPLE#	CLIENT SAMPLE#	SAMPLE WEIGHT (g)	CONCENTRATION (% BY WEIGHT)
01	1	0.225	9.8
02	2	0.257	21
03	3	0.270	19
04	4	0.259	24
05	5	0.221	10

QUALITY CONTROL DATA

BATCH#:	021306P-1
INCLUSIVE EHS SAMPLE NUMBERS:	01-03
Initial Calibration Verification (5.00ppm Pb)	108% Recovery
Continuing Calibration Verification 10 (10.0ppm Pb)	104% Recovery
Continuing Calibration Verification 5 (5.00ppm Pb)	99.8% Recovery
Laboratory Control Standard	98.5% Recovery
Matrix Spike	104% Recovery
Duplicate Relative Percent Difference	3.52 RPD
Reporting Limit	20ug
Method Detection Limit	2.9ug
BATCH#:	021306P-2
INCLUSIVE EHS SAMPLE NUMBERS:	04-05
Continuing Calibration Verification 10 (10.0ppm Pb)	102% Recovery
Continuing Calibration Verification 5 (5.00ppm Pb)	102% Recovery
Laboratory Control Standard	101% Recovery
Matrix Spike	99.6% Recovery
Duplicate Relative Percent Difference	0.401 RPD
Reporting Limit	20ug
Method Detection Limit	2.9ug

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 7-2564 B
EHS PROJECT #: 2006-02-1600
PROJECT: Mystic Education Ctr.; Antown Bldg.

PREPARATION METHOD: EPA 600/R-93/200
ANALYSIS METHOD: EPA SW846 7420

ANALYST: Aubrey Simonds

Reviewed By Authorized Signatory:

Michael A. Mueller, MPH, Laboratory Director
Howard Varner, General Manager
Irma Faszewski, Quality Assurance Coordinator
David Xu, MS, Senior Chemist

This method has been validated for sample weights of 0.020g or greater. When samples with a weight of less than that are analyzed those results fall outside of the scope of accreditations.

Sample results denoted with a "less than" (<) sign contain less than 20ug total lead, based on a 40ml sample volume.

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume etc., was provided by the client. This report shall not be reproduced, except in full, without the written consent of Environmental Hazards Services, L.L.C. California Certification #2319 NY ELAP #11714

LEGEND	g = gram	ug = microgram	ppm = parts per million
	ml = milliliter	Pb = lead	

painpb08.AAFS220A.dot/06FEB2006/REV2/MR/

– PAGE 02 of 02 – END OF REPORT –

ENVIRONMENTAL HAZARD Fax:8042754907 Feb 14 2006 12:42 P.03

500 paint

MENTAL HAZARDS SERVICES, L.L.C.
EHS 2006-02-1600 ond, Virginia 23237 Phone (804) 276-4788 Fax (804) 275-4907

AIN OF CUSTODY FORM

Company Name: Mystic Air Quality Consultants
Address: 1204 North Road
City, State, Zip: Groton, CT 06340
EHS Client Account #: 7-2564 B
Phone #: 860-449-8903 Fax #: 860-449-8860
P.O. #:

Date: 2/10/2006
Contact Name: CHRIS ELDENT.
Sampler Name: STEWART B. DAKES.
Project #: MYSTIC EDUCATION CTR ANTOON BLDG
Client: MYSTIC EDUCATION CTR.

Particulate: Total Nuisance (NIOSH 0500) ☐ Respirable (NIOSH 0600) ☐

Sample Number	Sample & Date	Asbestos: Bulk ID by PLM	Asbestos: (PCM) Fiber Count	Asbestos: PLM Point Count	Asbestos: PLM Gravimetric	Asbestos: TEM AHERA (Air)	Asbestos: TEM Qualified (Bulk)	Lead: Air	Lead: Paint (%)	Lead: Paint (PPM)	Lead: Paint (mg/cm²)	Lead: Soil	Lead: Wipe * (See Note)	Lead: TCLP (Pb)	Lead: Waste Water	Other Metals (Specify metals below): TCLP RCRA 8	Other Metals: Welding Fume	Other Metals: Toxic Metal Profile	Other Metals:	Other Metals:	Indoor Air Quality: Biocassette	Indoor Air Quality: Slide	Indoor Air Quality: Surface Swab	Indoor Air Quality: Surface Tape	Indoor Air Quality: Bulk	Indoor Air Quality: Viable Analysis*	Air Volume (L) OR Wipe Area (ft²) OR Scrape Area (cm²)	Comments *Specify: -Total Fungal Count w/ID -Stachybotrys Culture w/Total Fungal Count & IDs -Total Thermophilic Fungal Count w/ID
	2006																											
1 1	2/10								X																			
2 2	"								X																			Window
3 3	"								X																			"
4 4	"								X																			"
5 5	"								X																			"
2/10/06																												"

* Do wipe samples submitted meet ASTM E1792 requirements? Yes ☐ No ☑

Released by: STEWART B. DAKES	Signature: [signature]	
Received by:	Signature:	Date/Time: 2/10/06 1530
Released by:	Signature:	Date/Time:
Received by: A. Brown	Signature: [signature]	Date/Time:
		Date/Time: 2-13-06 9400

revised 2/2002

Mystic Air Quality Consultants

1204 North Road (Rt. 117)
Groton, CT 06340

Date 2/10/2006

DAILY JOB LOG

Page ___ of ___

Client Mystic Education Ctr Site Supervisor ___

Site Location ___

GENERAL OBSERVATIONS Containment Location ___

On site to sample paint chip
from windows in Antem Bldg.

HYGIENIST'S NAME Stewart B. Clark HYGIENIST'S SIGNATURE [signature]

TIME ON SITE: ___ TIME OFF SITE: ___

Telecommunications
Office: 860 449 8903
Nights & Weekends: 860 464 2050
FAX: 860 449 8860
Toll Free: 1 800 247 7746

LEAD PAINT INSPECTIONS

MYSTIC EDUCATION CENTER
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PRATT BUILDING (DPW Building 16943)
ADMINISTRATION BUILDING (DPW Building 16945)
GIRLS' BUILDING (DPW Building 16946)
WHIPPLE BUILDING (DPW Building 16947)
CROUTER BUILDING (DPW Building No. 16948)
RAINBOW HOUSE (DPW Building 16951)
DURANT BUILDING (DPW Building 16958)

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-RC-275 (ASB)

REPORT DATE: March 2001

DELTA
ENVIRONMENTAL
SERVICES®, INC.

81 Schoolground Road
P.O. Box 564, Branford, CT
(203) 481-7668

LEAD PAINT INSPECTIONS

MYSTIC EDUCATION CENTER
240 ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT

PRATT BUILDING (DPW Building 16943)
ADMINISTRATION BUILDING (DPW Building 16945)
GIRLS' BUILDING (DPW Building 16946)
WHIPPLE BUILDING (DPW Building 16947)
CROUTER BUILDING (DPW Building No. 16948)
RAINBOW HOUSE (DPW Building 16951)
DURANT BUILDING (DPW Building 16958)

PREPARED FOR:

Mr. Gerald S. Glassman
Chief of Project Management
Department of Public Works
165 Capitol Avenue, Room 280
Hartford, CT 06106

PROJECT NUMBER: BI-RC-275 (ASB)

REPORT DATE: March 2001

DELTA
ENVIRONMENTAL
SERVICES®, INC.

81 Schoolground Road
P.O. Box 564, Branford, CT
(203) 481-7668

TABLE OF CONTENTS

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2.0	Facility Description	1
3.0	Summary of Lead Inspection Findings	1
	Table 3-1 - Summary of XRF Screening Results for Lead-based Paint	

APPENDICES

APPENDIX A - Lead Inspector's Survey Reports

1.0 INTRODUCTION

This report summarizes the results of lead-based paint (LBP) inspections for the following buildings at Mystic Education Center in Mystic, Connecticut: Pratt Building, Administration Building, Girls' Building, Whipple Building, Crouter Building, Rainbow House and Durant Building at Mystic Education Center in Mystic, Connecticut. The project consisted of a screening inspection for lead-based paint using an X-Ray Fluorescence (XRF) analyzer.

2.0 FACILITY DESCRIPTION

Mystic Education Center is a seven-building campus-type facility. The property consists of approximately 122 acres and 250,000 square feet of building floor space. The oldest buildings on the campus (the "Girls' Building" and "Rainbow House") were constructed in 1928. The "Main Building" (also known as the "Administration Building") was constructed in 1944. The Crouter building was constructed in the 1950's. The Whipple Building was constructed in 1968. The Pratt and Durant buildings were constructed in 1974. Uses of the buildings vary and include: day programs run by the Department of Mental Retardation (DMR); apartments for approximately twenty full-time residents under the care of DMR; and office space leased to the Engineering Technology Center, a private corporation. Large portions of the buildings are vacant.

3.0 SUMMARY OF LEAD INSPECTION FINDINGS

An X-Ray Fluorescence (XRF) screening inspection of the facility was conducted by Peter Shannon and Gene Burch, licensed lead inspectors from Leadsafe, Inc. (a subcontractor to DELTA) in October and December, 2000. The purpose of the inspection was to determine whether toxic levels of lead are present in painted surfaces in the buildings as defined by State and Federal regulations.

Areas tested included door, window and wall surfaces throughout the buildings. The data was evaluated in the context of the regulatory standard of 1.0 milligrams per square centimeter of surface used to define lead-based paint (LBP). Surfaces found to exceed the standard are listed in Table 3-1.

A brief summary of the findings for each building is provided below.

Administration Building

The inspection identified only one area of lead-based paint in the Administration Building. This area is the east wall of Room A147 (a secretary's office). The paint is in good condition.

Girls' Building

The inspection identified only one area of lead-based paint in the Girls' Building. This area is the baseboard of Room G102. The paint is in poor condition.

Whipple Building

No surfaces containing LBP were found in the Whipple Building.

Crouter Building

The inspection identified only one area of lead-based paint in the Crouter Building. This area is a pipe in the former machine room (Room B-6). The paint is in good condition.

Pratt Building

The inspection identified a few isolated areas of lead-based paint in the Pratt Building. These areas are all metal surfaces and include: a beam and pipe in the gym; and a pipe and stair handrail in the mechanical room. The paint is in good condition, with the exception of the beam in the gym, which has some damage.

Durant Building

No surfaces containing LBP were found in the Durant Building.

Rainbow House

A large number of surfaces in this building were found to contain LBP. These areas include: window sills, wells, sash and casings; walls; doors and exterior surfaces. Peeling paint was noted in several areas, particularly doors and windows.

In general, LBP is unlikely to present a hazard unless it is actively disturbed through scraping, sanding, demolition or other means. Generally, lead abatement is only required in buildings where children under six years of age reside. However, it is recommended that restoration of the defective LBP surfaces in Rainbow House be considered.

All renovation or maintenance activities involving disturbance of LBP in any of the buildings must be performed in compliance with OSHA lead regulation 29 CFR 1926.62.

Copies of the detailed reports prepared by Leadsafe, Inc. are included in Appendix A.

TABLE 3-1 - SUMMARY OF XRF SCREENING RESULTS FOR LEAD-BASED PAINT MYSTIC EDUCATION CENTER 240 ORAL SCHOOL ROAD MYSTIC, CONNECTICUT				
TEST NUMBER	**ROOM**	**COMPONENT**	**SUBSTRATE**	**K-SHELL RESULT (mg/cm^2 of lead)**
ADMINISTRATION BUILDING				
21608 - 21609, 21625	First Floor Room A147	East Wall	Plaster	1.5 - 3.0
GIRLS' BUILDING				
21617	First Floor Room G102	East Wall (Baseboard)	Plaster	1.3
WHIPPLE BUILDING				
No LBP Surfaces Found.				
CROUTER BUILDING				
67459 - 67461	Frmr. Machine Room B-6	Pipe Along East Wall	Metal	2.8 - 12.0
PRATT BUILDING				
67500 - 67501	Gymnasium West Side	Beam	Metal	4.7
67502	Gymnasium North Side	Pipe	Metal	2.5
67506	Mech. Room East Side	Handrail on Stairs	Metal	1.3
67509	Mech. Room South Side	Stringer	Metal	2.3
67510	Mech. Room South Side	Pipe	Metal	5.5
DURANT BUILDING				
No LBP Surfaces Found.				

TABLE 3-1 - SUMMARY OF XRF SCREENING RESULTS FOR LEAD-BASED PAINT MYSTIC EDUCATION CENTER 240 ORAL SCHOOL ROAD MYSTIC, CONNECTICUT				
RAINBOW HOUSE				
67618 - 67620	Dining Room East Side	Window Case, Sill and Sash	Wood	2.2 - 5.5
67624	Dining Room West Side	Wall	Plaster	1.5
67627	Porch North Side	Siding	Masonry	8.1
67628 - 67639	Porch North Side	Door Case	Wood	8.7 - 10.1
67629	Porch East Side	Wall	Sheetrock	4.5
67630 - 67632	Porch South Side	Window Case, Sill and Sash	Wood	6.5 - 7.6
67633 - 67635	Porch South Side	Door, Door Case and Door Jamb	Wood	2.9 - 6.2
67636	Porch South Side	Wall	Sheetrock	3.9
67637	Porch West Side	Wall	Wood	5.2
67638	Porch West Side	Ceiling	Wood	2.3
67641	Living Room East Side	Door Case	Wood	1.6
67643	Living Room South Side	Mantle	Wood	1.5
67646	Living Room South Side	Door Case	Wood	2.2
67647 - 67648	Living Room West Side	Window Sash and Sill	Wood	4.0 - 4.7

TABLE 3-1 - SUMMARY OF XRF SCREENING RESULTS FOR LEAD-BASED PAINT MYSTIC EDUCATION CENTER 240 ORAL SCHOOL ROAD MYSTIC, CONNECTICUT				
RAINBOW HOUSE				
67650	Ground Floor West Corridor North Side	Wall	Plaster	4.4
67651 - 67652	Ground Floor West Corridor North Side	Door and Door Case	Wood	2.2 - 2.4
67655	Ground Floor West Corridor West Side	Baseboard	Wood	3.3
67661	Ground Floor Front Foyer	Door	Wood	3.3
67665	Ground Floor Bathroom North Side	Wall	Plaster	1.5
67667	Ground Floor Bathroom	Door	Wood	1.7
67670	Ground Floor Bathroom	Window Sash	Wood	3.6
67678	Ground Floor Study South Side	Door	Wood	2.4
67680 - 67682	Ground Floor Study West Side	Window Sash Sill and Case	Wood	2.6 - 3.7
67684 - 67686	Second Floor NW Bedroom North Side	Window Sash and Well	Wood	1.4 - 2.6
67690	Second Floor NW Bedroom South Side	Wall	Sheetrock	3.0

TABLE 3-1 - SUMMARY OF XRF SCREENING RESULTS FOR LEAD-BASED PAINT MYSTIC EDUCATION CENTER 240 ORAL SCHOOL ROAD MYSTIC, CONNECTICUT				
RAINBOW HOUSE				
67669	Second Floor NE Bedroom North Side	Window Sash	Wood	2.1
67715	Second Floor North Corridor East Side Near Bathroom	Window Sash	Wood	3.2
67722	Second Floor SE Bedroom East Side	Window Sash	Wood	2.8
67731	Second Floor SW Bedroom East Side	Wall	Sheetrock	2.4
67733 - 67735	Second Floor SW Bedroom South Side	Window Sash, Well and Case	Wood	1.6 - 4.0
67745	Exterior North Side	Door	Wood	14.9
67747, 67751, 67752, 67757, 67759, 67760, 67764, 67765, 67769 - 67771, 67774	Exterior	Windows	Wood	1.3 - 15.0
67746, 67754, 67772	Exterior	Siding	Wood	1.6 - 11.5
67748	Exterior North Side	Porch Ceiling	Wood	12.4
67753	Exterior North Side	Porch Column	Wood	13.5
67766 - 67768	Exterior South Side	Door, Door Case and Threshold	Wood	2.1 - 11.1

TABLE 3-1 - SUMMARY OF XRF SCREENING RESULTS FOR LEAD-BASED PAINT MYSTIC EDUCATION CENTER 240 ORAL SCHOOL ROAD MYSTIC, CONNECTICUT				
RAINBOW HOUSE				
67776	Exterior West Side	Porch Column	Wood	12.0
67777	Exterior West Side	Door	Wood	1.7

APPENDIX A

Lead Inspector's Survey Report

LEADsafe Inc.

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LEAD PAINT INSPECTION REPORT

LEADSAFE INC. LICENSE # 001443

FOR STRUCTURE(S) LOCATED AT:

240 ORAL SCHOOL ROAD
MYSTIC, CT

October 17, 2000

29 BANK STREET, STAMFORD, CONNECTICUT 06901 • **800-392-6468.TEL** 203-921-4145.FAX
OFFICES ALSO IN HARTFORD, CT AND MAMARONECK, NY

Mr. Jim McCarthy
Delta Environmental Services, Inc.
81 Schoolground Road
Branford, CT. 06405

10-17-00
Lead ID #00334477

Leadsafe, Inc. has conducted an on-site inspection for the detection of lead based paint at *The Mystic Educational Center, 240 Oral School Road, Mystic, CT.* on 10-17-00. The rooms/spaces were tested using the HUD Chapter 7 Guidelines for Lead Base paint Inspection, 1997 Revision. This methodology requires testing of representative components in each room/space, for example walls, ceilings, windows, doors, baseboards etc. The testing was accomplished by a licensed lead inspector, Peter Shannon (Lic. # 001443) with a MAP 4 XRF Spectrum Analyzer instrument.

Summary of Findings

The following areas tested were ***above*** the action level of 1.0 mg/cm2:

Administration Building- Room A147, plaster wall (side 3)
Girls Dorm- Room G102, concrete baseboard (side 2)

Test Report: Please read each section of the report prior to reviewing the XRF Results . This is important in understanding the report. A brief description of each section of the report is provided below.
XRF Procedures: This section of the report describes in detail the methodology used to conduct the testing.
Floor Plan: The floor plan is a diagram depicting the layout of the areas tested. Each space is named and numbered in a manner which corresponds to how these areas are identified in the XRF Results. The diagram shows wall #1 in each space, the other walls are numbered in a *clockwise rotation* starting at wall #1.
XRF Results: All of the measurements taken at the site are shown in this section. The MAP 4 tests for lead concentration at two levels in the paint. The K-Shell represents the total concentration of lead in all layers of the paint. The L-Shell represents the concentration of lead in the top layers of the paint. The test results in the report are based on an action level of 1.0 milligrams per square centimeter (mg/cm2) in the K-Shell. The action level is determined by the HUD Guidelines.

Shaded Areas: Every location where the lead concentration was confirmed to be greater than the action level (taking into account the precision of the instrument) is shown in this section. These locations are shown as POS in the XRF Results pages. An inconclusive (INCL) result indicates the concentration of lead is in the vicinity of the action level within the boundaries of the precision of the Map 4. Inconclusive measurements can be qualified by taking paint chip samples and analyzing them at a laboratory. Due to additional expense, paint chip samples are only taken when authorized by the client.

This inspection report is for the exclusive private use of the client. The report provided to the client is confidential and is not to be copied or disseminated to any party other than the property owner, buyer, insurance carrier or tenant without the express written consent of the inspector. Use of all disclosures contained in this report is specifically restricted to the transaction for which the inspection was performed. Use of or reliance upon the report by other parties, or for other transactions is strictly prohibited. None of these test results or reports developed through the inspectors performance of the work are intended or represented to be suitable for reuse by the client or others as presenting an accurate description of the property or its condition beyond that existing on the date of the performance of the inspection. Use of said test results or reports or other materials by client without written permission or adaptation by the inspector for the specific purpose intended shall be at the user's sole risk, without liability on the inspector's part, and the client agrees to indemnify and hold the inspector harmless from all claims, damages and expenses, including attorney's fees, arising out of such unauthorized us.

All renovations which interrupt lead based paint must be done in compliance with applicable Federal, State and local laws. The Occupational Safety and Health Administration (OSHA) released new worker safety guidelines for all renovations that interrupt lead based paint in May, 1993. We recommend the use of a professional contractor for the interruption or removal of hazardous levels of lead based paint and other lead contaminated materials. Please keep in mind, "shop vacuums" and ordinary vacuums do not have adequate filtration systems for collection and containment of hazardous materials and may aggravate lead dust conditions. A high efficiency particulate arresting (HEPA) vacuum and special detergents are needed to remove lead contaminated dust and debris.

Leadsafe can provide consulting services to help you assess any hazardous conditions detected at this property and determine the best approach to resolve these problem areas. If any questions arise regarding this report, please call anytime 860-523-1950 0r 800-392-6468. Thank you for using Leadsafe.

Sincerely,

Peter Shannon

Leadsafe,Inc.

XRF and Lab Results

Customer: Leadsafe, Inc.
1-800-392-6468

Project Name: DELTA ENVIRONMENTAL
10-17-00

Site Name: MYSTIC ED. CTR.- ADMIN. BLDG
MYSTIC, CT.

Action Level 1.000 mg /cm2 Lab 1.000 mg /cm2

Total Assays Reported 26

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
21602	1111	Calibration	*	*	*	*	*	0.000 X	0.000 X	0		
21603	1111	Calibration	*	*	*	*	*	0.898 K	0.809 L	354		Incl
21604	1111	Office	1	1	Wall	Plaster	Intact	-0.020 K	-0.103 L	354		Neg
21605	1111	Office	1	1	Baseboard	Thin Metal	Intact	0.456 K	0.898 L	354		Neg
21606	1111	Office	2	3	Wall	Plaster	Intact	0.352 K	-0.243 L	354		Neg
21607	1111	Office	2	1	Baseboard	Thin Metal	Intact	0.680 K	0.501 L	354		Neg
21608	1111	Office	3	3	Wall	Plaster	Intact	3.030 K	-0.478 L	354		Pos
21609	1111	Office	3	3	Wall	Plaster	Intact	1.502 K	-0.120 L	354		Pos
21610	1111	Office	3	3	Wall	Plaster	Intact	1.181 K	-0.071 L	354		Incl
21611	1111	Office	4	4	Wall	Plaster	Intact	0.429 K	-0.032 L	354		Neg
21612	1111	Office	4	4	Baseboard	Thin Metal	Intact	0.233 K	0.072 L	354		Neg
21613	1111	Hallway	1	2	Wall	Plaster	Intact	-0.047 K	-0.068 L	354		Neg
21614	1111	Hallway	1	2	Baseboard	Thin Metal	Intact	0.492 K	0.875 L	354		Neg
21615	1111	Foyer	1	4	Wall	Plaster	Intact	-0.711 K	-0.131 L	354		Neg
21616	1111	Foyer	1	4	Column	Wood	Intact	0.686 K	-0.026 L	354		Neg
21617	1111	Office	5	1	Wall	Plaster	Intact	0.397 K	0.183 L	354		Neg
21618	1111	Office	5	1	Chair Rail	Wood	Intact	-1.283 K	-0.598 L	354		Neg
21619	1111	Calibration	*	*	*	*	*	0.000 X	0.000 X	0		
21620	1111	Office	3	4	Floor	Plaster	Intact	-0.886 K	-0.317 L	0		Neg
21621	1111	Calibration	*	*	*	*	*	0.000 X	0.000 X	0		
21622	1111	Office	2	1	Wall	Plaster	Intact	0.215 K	0.174 L	0		Neg

 No Averaging Selected

Leadsafe,Inc.

XRF and Lab Results

Customer: Leadsafe, Inc.
1-800-392-6468

Project Name: DELTA ENVIRONMENTAL
10-17-00

Site Name: MYSTIC ED. CTR.- ADMIN. BLDG
MYSTIC, CT.

Action Level 1.000 mg /cm2 Lab 1.000 mg /cm2

Total Assays Reported 26

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
21623	1111	Office	3	3	Wall	Plaster	Intact	0.822 K	0.067 L	0		Neg
21624	1111	Office	3	3	Wall	Plaster	Intact	1.048 K	0.215 L	0		Incl
21625	1111	Office	3	3	Wall	Plaster	Intact	2.346 K	0.627 L	0		Pos
21626	1111	Office	3	4	Wall	Plaster	Intact	0.216 K	-0.127 L	0		Neg
21627	1111	Calibration	*	*	*	*	*	0.965 K	0.649 L	354		Incl

Leadsafe,Inc.

XRF and Lab Results

Customer: Leadsafe, Inc.
1-800-392-6468

Project Name: DELTA ENVIRONMENTAL
10-17-00

Site Name: MYSTIC ED. CTR.- ADMIN. BLDG.
MYSTIC, CT.

Action Level 1.000 mg /cm2 Lab 1.000 mg /cm2

Total Assays Reported 3

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
21629	1112	Calibration	*	*	*	*	*	0.000 X	0.000 X	0		
21630	1112	Hallway	1	2	Wall	Plaster	Intact	0.182 K	0.017 L	0		Neg
21631	1112	Hallway	1	2	Ceiling	Plaster	Intact	0.204 K	0.059 L	0		Neg

Leadsafe,Inc.

XRF and Lab Results

Customer: Leadsafe, Inc.
1-800-392-6468

Project Name: DELTA ENVIRONMENTAL
10-17-00

Site Name: MYSTIC ED. CTR.- ADMIN.BLDG.
MYSTIC, CT.

Action Level 1.000 mg /cm2 Lab 1.000 mg /cm2

Total Assays Reported 9

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
21633	1113	Calibration	*	*	*	*	*	0.000 X	0.000 X	0		
21634	1113	Office	1	1	Wall	Plaster	Intact	-1.211 K	-0.456 L	0		Neg
21635	1113	Office	1	3	Baseboard	Thin Metal	Intact	0.563 K	0.269 L	0		Neg
21636	1113	Office	2	3	Wall	Plaster	Intact	0.220 K	0.108 L	0		Neg
21637	1113	Office	2	3	Ceiling	Plaster	Intact	0.215 K	-0.029 L	0		Neg
21638	1113	Office	3	3	Wall	Plaster	Intact	0.796 K	-0.028 L	0		Neg
21639	1113	Office	3	3	Wall	Plaster	Intact	0.121 K	0.409 L	0		Neg
21640	1113	Office	3	3	Ceiling	Plaster	Intact	-0.475 K	-0.674 L	0		Neg
21641	1113	Office	3	1	Wall	Plaster	Intact	-0.579 K	0.569 L	0		Neg

Leadsafe,Inc.

XRF and Lab Results

Customer: Leadsafe, Inc.
1-800-392-6468

Project Name: DELTA ENVIRONMENTAL
10-17-00

Site Name: MYSTIC ED. CTR. ADMIN. BLDG.
MYSTIC, CT.

Action Level 1.000 mg /cm2 Lab 1.000 mg /cm2

Total Assays Reported 8

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
21643	1114	Calibration	*	*	*	*	*	0.000 X	0.000 X	0		
21644	1114	Service Room	1	4	Ceiling	Plaster	Intact	0.315 K	0.287 L	0		Neg
21645	1114	Service Room	1	3	Wall	Brick	Intact	-0.175 K	-0.080 L	0		Neg
21646	1114	Janitor Room	1	1	Ceiling	Plaster	Intact	-1.771 K	0.687 L	0		Neg
21647	1114	Janitor Room	1	4	Ceiling	Concrete	Intact	0.294 K	0.237 L	0		Neg
21648	1114	Janitor Room	1	4	Beam	Concrete	Intact	-0.571 K	0.001 L	0		Neg
21649	1114	Storage Room	1	1	Wall	Brick	Intact	0.793 K	0.097 L	0		Neg
21650	1114	Storage Room	1	1	Wall	Brick	Intact	0.299 K	-0.248 L	0		Neg

Leadsafe,Inc.

XRF and Lab Results

Customer: Leadsafe, Inc.
1-800-392-6468

Project Name: DELTA ENVIRONMENTAL
10-17-00

Site Name: MYSTIC ED. CTR.- GIRLS DORM
MYSTIC, CT.

Action Level 1.000 mg /cm2 Lab 1.000 mg /cm2

Total Assays Reported 27

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
21602	2222	Calibration	*	*	*	*	*	0.000 X	0.000 X	0		
21603	2222	Hallway	1	4	Wall	Plaster	Intact	0.700 K	-0.528 L	0		Neg
21604	2222	Hallway	1	4	Wall	Plaster	Intact	0.862 K	-0.481 L	0		Neg
21605	2222	Hallway	1	4	Chair Rail	Wood	Intact	0.953 K	-0.062 L	0		Incl
21606	2222	Hallway	1	4	Chair Rail	Wood	Intact	0.908 K	0.071 L	0		Incl
21607	2222	Hallway	1	4	Baseboard	Concrete	Intact	0.446 K	0.475 L	0		Neg
21608	2222	Hallway	1	4	Ceiling	Plaster	Intact	0.460 K	-0.680 L	0		Neg
21609	2222	Hallway	1	2	Wall	Plaster	Intact	0.142 K	-0.086 L	0		Neg
21610	2222	Auditorium	1	4	Wall	Wallboard	Poor	0.290 K	0.434 L	0		Neg
21611	2222	Auditorium	1	4	Ceiling	Plaster	Intact	1.112 K	-0.770 L	0		Incl
21612	2222	Auditorium	1	4	Ceiling	Plaster	Intact	0.861 K	-0.465 L	0		Neg
21613	2222	Copy Room	1	2	Wall	Wallboard	Intact	-0.295 K	0.080 L	0		Neg
21614	2222	Copy Room	1	2	Door Buck	Thin Metal	Intact	0.360 K	0.602 L	0		Neg
21615	2222	Office	1	2	Wall	Plaster	Intact	-0.399 K	-0.214 L	0		Neg
21616	2222	Office	1	2	Chair Rail	Wood	Intact	0.287 K	0.230 L	0		Neg
21617	2222	Office	1	2	Baseboard	Concrete	Poor	1.275 K	0.507 L	0		Pos
21618	2222	Office	1	2	Baseboard	Concrete	Poor	0.306 K	0.730 L	0		Neg
21619	2222	Hallway	2	1	Wall	Plaster	Intact	0.798 K	-0.059 L	0		Neg
21620	2222	Hallway	2	1	Chair Rail	Wood	Intact	1.155 K	0.499 L	0		Incl
21621	2222	Hallway	2	1	Chair Rail	Wood	Intact	0.782 K	0.376 L	0		Neg
21622	2222	Hallway	2	1	Floor	Concrete	Intact	-0.946 K	0.386 L	0		Neg

Leadsafe.Inc.

XRF and Lab Results

Customer: Leadsafe, Inc.
1-800-392-6468

Project Name: DELTA ENVIRONMENTAL
10-17-00

Site Name: MYSTIC ED. CTR.- GIRLS DORM
MYSTIC, CT.

Action Level 1.000 mg /cm2 Lab 1.000 mg /cm2

Total Assays Reported 27

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
21623	2222	**Calibration**	*	*	*	*	*	0.000 X	0.000 X	0		
21624	2222	**Basement**	1	1	**Wall**	**Plaster**	**Poor**	0.195 K	0.108 L	0		**Neg**
21625	2222	**Basement**	1	4	**Wall**	**Plaster**	**Poor**	0.415 K	0.434 L	0		**Neg**
21626	2222	**Basement**	1	4	**Ceiling**	**Plaster**	**Poor**	-0.008 K	-0.790 L	0		**Neg**
21627	2222	**Basement**	1	3	**Wall**	**Plaster**	**Poor**	0.476 K	-1.003 L	0		**Neg**
21628	2222	**Basement**	1	4	**Wall**	**Plaster**	**Poor**	0.423 K	0.114 L	0		**Neg**

Leadsafe,Inc.

XRF and Lab Results

Customer: Leadsafe, Inc.
1-800-392-6468

Project Name: DELTA ENVIRONMENTAL
10-17-00

Site Name: MYSTIC ED. CTR.- WHIPPLE
MYSTIC, CT.

Action Level 1.000 mg /cm2 Lab 1.000 mg /cm2

Total Assays Reported 4

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
21630	3331	Calibration	*	*	*	*	*	0.000 X	0.000 X	0		
21631	3331	Hallway	1	2	Wall	Concrete	Intact	0.304 K	0.038 L	0		Neg
21632	3331	Hallway	1	3	Wall	Concrete	Intact	0.457 K	0.107 L	0		Neg
21633	3331	Teacher Room	1	3	Wall	Concrete	Intact	0.255 K	-0.167 L	0		Neg

Leadsafe,Inc.

XRF and Lab Results

Customer: Leadsafe, Inc.
1-800-392-6468

Project Name: DELTA ENVIRONMENTAL
10-17-00

Site Name: MYSTIC ED. CTR.- WHIPPLE
MYSTIC, CT.

Action Level 1.000 mg /cm2 Lab 1.000 mg /cm2

Total Assays Reported 5

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
21635	3333	**Calibration**	*	*	*	*	*	**0.000 X**	**0.000 X**	**0**		
21636	3333	**Classroom**	**1**	**1**	**Wall**	**Concrete**	**Intact**	**-0.151 K**	**-0.031 L**	**0**		**Neg**
21637	3333	**Classroom**	**1**	**1**	**Door Buck**	**Thin Metal**	**Intact**	**0.867 K**	**0.960 L**	**0**		**Neg**
21638	3333	**Office**	**1**	**1**	**Wall**	**Concrete**	**Intact**	**0.347 K**	**0.133 L**	**0**		**Neg**
21639	3333	**Office**	**1**	**1**	**Radiator**	**Thin Metal**	**Intact**	**0.394 K**	**0.599 L**	**0**		**Neg**

LEADsafe Inc.

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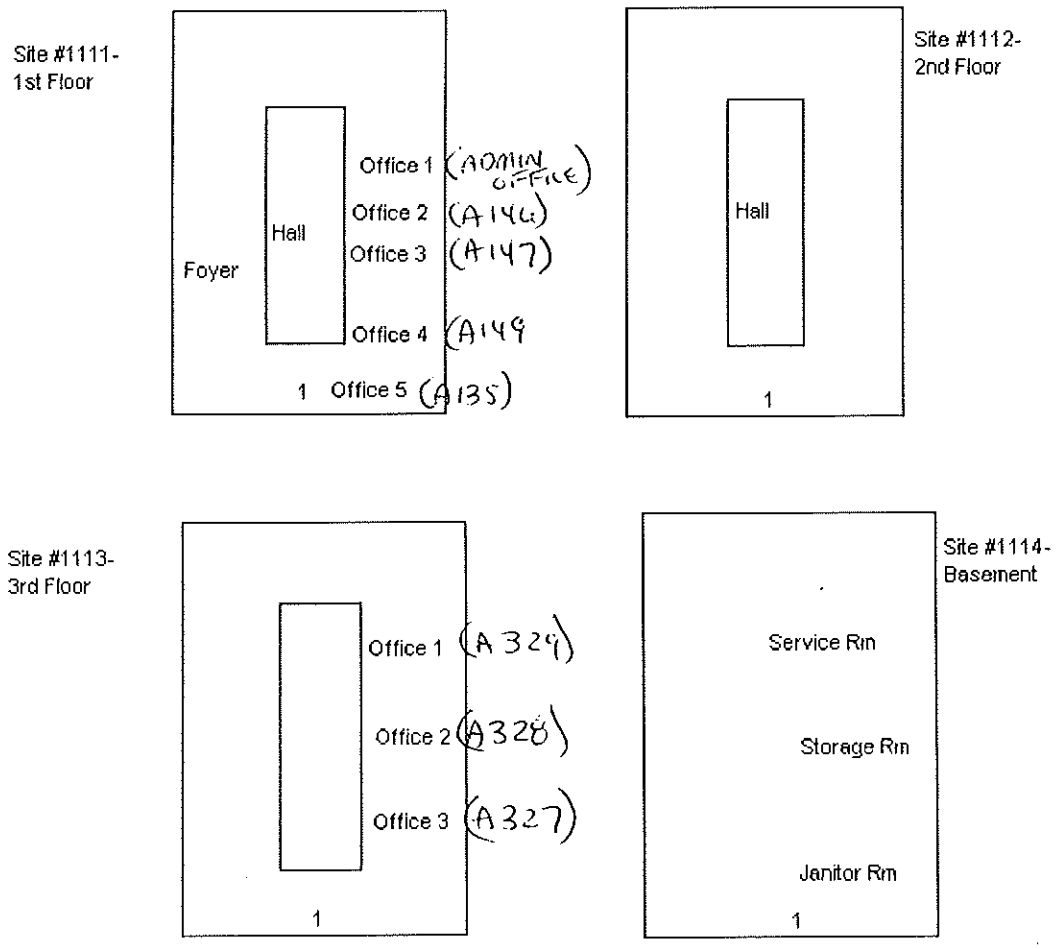
FLOOR PLAN

MYSTIC EDUCATIONAL CENTER
240 ORAL SCHOOL ROAD
MYSTIC, CT.

ADMINISTRATION BUILDING



STREET SIDE- EXTERIOR SIDE 1

NOTE: The room layout sketch is only for identifying the rooms/spaces on the test report.
Wall #1 is shown in each room, additional walls are numbered in a clockwise rotation.
This sketch is not to scale.

29 BANK STREET, STAMFORD, CONNECTICUT 06901 • **800-392-6468.TEL** 203-921-4145.FAX
OFFICES ALSO IN HARTFORD, CT AND MAMARONECK, NY

LEADsafe Inc.

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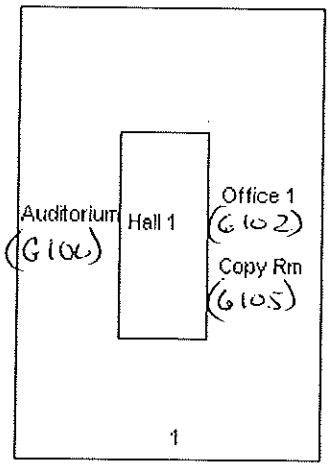
FLOOR PLAN

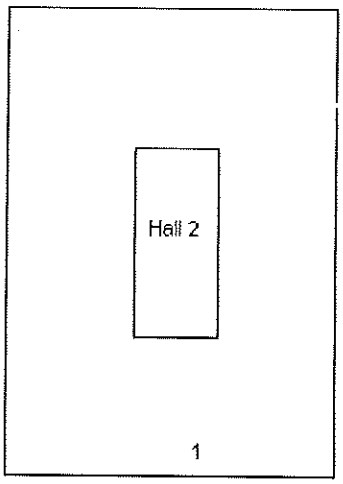
MYSTIC EDUCATIONAL CENTER
240 ORAL SCHOOL ROAD
MYSTIC, CT.

GIRLS DORM

FIRST FLOOR



BASEMENT



STREET SIDE- EXTERIOR SIDE 1

NOTE: The room layout sketch is only for identifying the rooms/spaces on the test report.
Wall #1 is shown in each room, additional walls are numbered in a clockwise rotation.
This sketch is not to scale.

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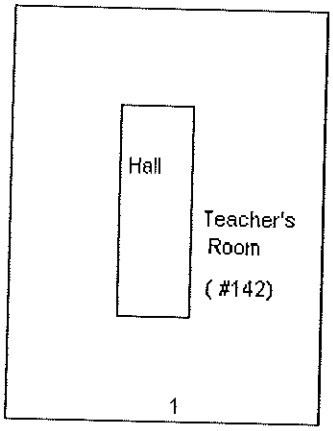
FLOOR PLAN

MYSTIC EDUCATIONAL CENTER
240 ORAL SCHOOL ROAD
MYSTIC, CT.

WHIPPLE BUILDING

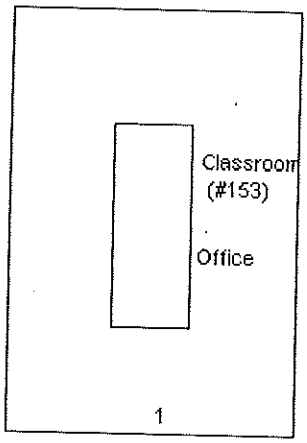
Basement

SITE #3331



First Floor

SITE #3333



STREET SIDE- EXTERIOR SIDE 1

NOTE: The room layout sketch is only for identifying the rooms/spaces on the test report.
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This sketch is not to scale.

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LEAD PAINT

INSPECTION REPORT

LEADSAFE INC. LICENSE # 000722

FOR STRUCTURE(S) LOCATED AT:

Mystic Education Center
East Hartford, CT

December 07, 2000

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Jim McCarthy
Delta Environmental Services, Inc.
81 Schoolground Rd.
Branford, CT 06405

12-07-00
Lead ID #00334547

Leadsafe, Inc. has conducted an on-site inspection for the detection of lead based paint at Mystic Education Center, Durant, Pratt, Rainbow & Crouter Buildings, Mystic, CT. on 12-07-00. The rooms/spaces were tested using the HUD Chapter 7 Guidelines for Lead Base paint Inspection, 1997 Revision. This methodology requires testing of representative components in each room/space, for example walls, ceilings, windows, doors, baseboards etc. The testing was accomplished by a licensed lead inspector, Gene Burch (Lic. # 000722) with a MAP 4 XRF Spectrum Analyzer instrument.

Test Report: Please read each section of the report prior to reviewing the XRF Results . This is important in understanding the report. A brief description of each section of the report is provided below.
XRF Procedures: This section of the report describes in detail the methodology used to conduct the testing.
Floor Plan: The floor plan is a diagram depicting the layout of the areas tested. Each space is named and numbered in a manner which corresponds to how these areas are identified in the XRF Results. The diagram shows wall #1 in each space, the other walls are numbered in a *clockwise rotation* starting at wall #1.
XRF Results: All of the measurements taken at the site are shown in this section. The MAP 4 tests for lead concentration at two levels in the paint. The K-Shell represents the total concentration of lead in all layers of the paint. The L-Shell represents the concentration of lead in the top layers of the paint. The test results in the report are based on an action level of 1.0 milligrams per square centimeter (mg/cm2) in the K-Shell. The action level is determined by the HUD Guidelines.
Shaded Areas: Every location where the lead concentration was confirmed to be greater than the action level (taking into account the precision of the instrument) is shown in this section. These locations are shown as POS in the XRF Results pages. An inconclusive (INCL) result indicates the concentration of lead is in the vicinity of the action level within the boundaries of the precision of the Map 4. Inconclusive measurements can be qualified by taking paint chip samples and analyzing them at a laboratory. Due to additional expense, paint chip samples are only taken when authorized by the client.

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This inspection report is for the exclusive private use of the client. The report provided to the client is confidential and is not to be copied or disseminated to any party other than the property owner, buyer, insurance carrier or tenant without the express written consent of the inspector. Use of all disclosures contained in this report is specifically restricted to the transaction for which the inspection was performed. Use of or reliance upon the report by other parties, or for other transactions is strictly prohibited. None of these test results or reports developed through the inspectors performance of the work are intended or represented to be suitable for reuse by the client or others as presenting an accurate description of the property or its condition beyond that existing on the date of the performance of the inspection. Use of said test results or reports or other materials by client without written permission or adaptation by the inspector for the specific purpose intended shall be at the user's sole risk, without liability on the inspector's part, and the client agrees to indemnify and hold the inspector harmless from all claims, damages and expenses, including attorney's fees, arising out of such unauthorized us.

All renovations which interrupt lead based paint must be done in compliance with applicable Federal, State and local laws. The Occupational Safety and Health Administration (OSHA) released new worker safety guidelines for all renovations that interrupt lead based paint in May, 1993. We recommend the use of a professional contractor for the interruption or removal of hazardous levels of lead based paint and other lead contaminated materials. Please keep in mind, "shop vacuums" and ordinary vacuums do not have adequate filtration systems for collection and containment of hazardous materials and may aggravate lead dust conditions. A high efficiency particulate arresting (HEPA) vacuum and special detergents are needed to remove lead contaminated dust and debris.
Leadsafe can provide consulting services to help you assess any hazardous conditions detected at this property and determine the best approach to resolve these problem areas. If any questions arise regarding this report, please call anytime 860-523-1950 0r 800-392-6468. Thank you for using Leadsafe.

Sincerely,

Gene Burch

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Report Disclaimer

THE INFORMATION PROVIDED IN THIS REPORT IS LIMITED BY THE SCOPE OF THE INSPECTION REQUESTED BY THE CLIENT.

NOT ALL INSPECTIONS YIELD INFORMATION REGARDING THE PRESENCE OF LEAD AND THE EXISTENCE OF LEAD HAZARDS IN ALL MEDIA. YOU ARE ADVISED TO CLARIFY THE SCOPE OF THE INSPECTION PROVIDED WITH THE INSPECTOR.

It is generally acknowledged that the condition of the lead based paint ("LBP") in or on a residential structure will determine the extent of the hazard arising out of such LBP. Accordingly, any change in the condition of the LBP in the property in question will alter the validity of the test results provided herewith. The accuracy of any lead hazard evaluation performed is, therefore, limited to the condition of the property at the time the investigation reported herewith was conducted. The inspector assumes no responsibility for retesting or reinvestigating the property to determine changed conditions. Any and all changes in the premises or it's condition may result in the creation of lead based paint hazards not in existence at the time of the inspection.

Client is advised that results which are reported as negative or inconclusive are not indicative of the total absence of lead in surface coating materials. Such results indicate that lead is not present in concentration levels defined by federal, state or local regulations as lead based paint. Client is notified that care should be taken in the event of an accidental or intentional disturbance of or the undertaking of activities which could affect surfaces coated with paints or coverings containing any amount of lead.

Not all surfaces were tested or were accessible for testing. The inspector makes no representation with respect to the presence of lead-based paint or the condition of any surfaces which were inaccessible. Surfaces which were not tested may, if tested, yield results which indicate the presence of lead in greater or lesser concentrations than those tested, due to variability in application, paint quality, usage or other factors. The Client is advised to take such factors into account when undertaking any activities which may have an impact upon such surfaces.

This report is intended only for the benefit of the Inspector and the Client and does not create any rights in any third parties.

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PRO-TECT SAFETY ZONE™ Consulting Services

Leadsafe provides PRO-TECT SAFETY ZONE consulting services to our clients as a followup to testing their properties for lead hazards. When elevated levels of lead are detected, it is critical to properly assess the present and potential future conditions that may exist at this property. A **Lead Hazard Assessment** will highlight the areas that may pose a health threat or create a liability exposure. Once these areas have been identified, a viable plan of action must be developed to solve the problem. An **InPlace Management Plan** or an **Abatement Plan** should be designed and executed to ensure a safe environment exists at this property. **Project Management** services are available to oversee the abatement and/ or inplace management process and the contractors fulfilling the project. Please contact the office if you have any questions on these services. The services are outlined below.

The **Hazard Assessment** report combines the results of the lead testing analysis with general and specific information about the occupants and the functional use of the property. This information enables the consultant to determine the potential health risks to the occupants associated with known lead hazards. Avenues of exposure to lead hazards can vary significantly depending on a multitude of factors. The presence of known lead hazards at a property can impose financial risks as well. Federal, State and local ordinances often require specific actions be taken to correct conditions that are deemed hazardous. These actions generally have to be complied to within a predetermined time frame. The cost of bringing a property up to requirements of these ordinances can be expensive. The greatest financial risk to the owners may be the threat of litigation by a party who has been injured as a result of the lead hazards present on their property.

A **Hazard Assessment** Report will point out to the owners the locations and conditions which need to be addressed to enable them to reduce, minimize or eliminate these risks. Our consultant can work with you to determine the best and most cost effective method to satisfy your needs and requirements and solve the problem

There are two approaches to address known lead hazards:

1) Management

Management involves taking a proactive approach to control lead hazards *inplace*. When an owner chooses to utilize the Management approach, an **InPlace Management Plan** is designed. A Leadsafe consultant will work with you to develop an InPlace Management Plan which will implement interim controls to maintain existing lead hazards in a stable *"leadsafe"* condition. The plan will take into account the test results, Hazard Assessment and economics. The InPlace Management Plan may propose a variety of solutions to be implemented to control lead hazards in

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paint, dust, soil and water. In some instances, partial or full abatement may be recommended for areas that might not be safely managed inplace, such as, chewable surfaces in a residence with one or more young children. There are a number of different methods and products that can be employed to cover, coat, encapsulate, filter, clean and maintain various levels of lead hazards in a variety of environments. These systems all have different life spans, levels of effectiveness and costs. Each system may require regular maintenance and scheduled inspections.

2) Abatement

Abatement requires removal of the lead hazards. Leadsafe consultants will work with the owner or their representative to create a solution that meets the owners needs in conjunction with their economic capabilities. The consultant will take this solution and design an **Abatement Plan.** The abatement plan will identify areas of the property slated for abatement and will specify the method by which the abatement will be carried out on specific components. The abatement plan will be used for obtaining bids from abatement contractors. To maintain continuity, it is important that all contractors are bidding according to the same plan. Due to a conflict of interest, Leadsafe does not bid or contract for any abatement work. An abatement project can be a complicated procedure, we offer **Project Management** services to our clients to assist in accomplishing the job safely and in accordance with applicable regulations. Leadsafe can also provide clearance testing for lead dust upon completion of the abatement project to determine if the site has been properly decontaminated.

Decorating concepts, moisture, wear and tear and traffic are some of the reasons different paints may have been applied, creating a unique paint history for each space. It is important to note, individual spaces may not be separated by a wall. For example, a living/dining room or hall/stairway depending on the configuration may be considered two separate spaces. In general, closets are considered to be a part of the space from which they are entered.

TESTING BUILDING COMPONENTS

In every space tested, each building component will be tested based on a representative sampling methodology (building components may consist of: door, door jambs, baseboards, walls, ceiling, window sashes, window cases, etc.) In each space, identical building components will be considered a *"homogenous group"* when their age and construction can be judged the same. In most instances, a homogeneous group of building components will have the same paint history. For example, if the baseboards in a room appear to be identical in age and construction, it is likely that each time the room was painted, all of these baseboards were painted with the same paint. When paint is applied to a surface, the thickness of the paint film can vary significantly in various locations on that surface. It is important to understand that paint films are applied to the surface (substrate material) by a variety of tools (brushes, rollers, sprayers, etc.) When various tools are employed to apply paint, the paint film thickness is rarely uniform. Hence, the concentration of materials (including lead) that paint is comprised of will vary at different locations on the same painted component. Paint film thickness can also be influenced by renovations along with general wear and tear. Based on these facts, we realize that testing for the presence and concentration of lead in paint is an evaluation that will rarely yield the same measurement. Instead, the test results will indicate a range of concentration on each component tested. For example, if a measurement taken on a door yields a test result of 3.0 mg/cm2, it is likely that further testing on that same door, in a different location, would yield higher or lower measurements in the range of 3.0 mg/cm2. Hence, when evaluating and interpreting the test results for individual building components, the measurement indicates the approximate range of lead concentration.

Leadsafe field technicians conduct all on-site testing with unlimited mode on the MAP-4 instrument. The MAP-4 instrument automatically determines the length of time required to accurately distinguish the level of precision necessary to establish whether the painted surface has a lead concentration which is above (POS) or below (NEG) the action level. The degree of precision is based on the length of time the scanner is held to the surface being tested. The longer the test time, the greater the precision of the results. If the lead concentration measurement falls within + or - 0.15mg/cm2 of the action level, as determined by the instrument, a second location on the same component will be tested. In the event the measurement falls in the same range, the result will be reported as inconclusive (INCL). With this level of precision, we can accurately define the potential range of concentration of lead in the paint film at a specific location. This enables Leadsafe to establish the lead concentration range within very narrow parameters.

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MAP-4 XRF LEAD BASED PAINT TESTING

PLEASE READ THIS EXPLANATION PRIOR TO REVIEWING THE TEST REPORT:

Leadsafe requires their lead testing technicians to work in accordance with our strict standard operating procedure. Non-destructive on-site testing for the presence of lead-based paint is accomplished by utilizing the MAP-4 XRF Spectrum Analyzer instrument. This state-of-the-art testing instrument examines painted films by X-ray fluorescence (XRF). The testing is accomplished in conjunction with the AcuData™ System, an automated test data control system that virtually eliminates the presence of errors that commonly exist from test data gathered in the field. The SCITEC state-of-the-art testing system validates each field measurement at the site. The AcuTransfer™ software prevents any tampering with the test data and invalid measurements are automatically removed from the printed report. All data will be archived for a period of thirty years.

The Federal Government and many states have decided to allow up to 1.0 mg/cm^2 of lead in dried paint for regulatory purposes. NOTE: When a local ordinance has a stricter (lower) action level, all testing and report generation will be done to reflect the strictest guideline.

MAP-4 XRF: MEASUREMENT PRECISION

The precision of the MAP-4 instrument is qualified throughout each day by systematic calibration checks on reference standards. Upon arrival at the job site, a calibration check is done before testing commences, approximately once an hour as the testing proceeds, and upon completion of the testing at the site. The calibration results are shown in sequence on the test report.

ON-SITE MEASUREMENT VALIDATION

The quality control validation checks performed by the AcuTransfer software along with regular instrument calibration checks combined with a high degree of measurement precision produce validated data with a 95% confidence level on each individual test measurement.

AREAS TESTED

Buildings are comprised of a variety of functional spaces. When a building is tested for lead-based paint, each individual space is tested separately. In many instances, a space may be a room, such as: a living room, dining room, kitchen, bedroom, etc. In other cases, a space may be identified by its functional purpose, such as: a hallway, a stairway, basement, the exterior of the building, etc. Due to the fact that each space has a different functional purpose, it is possible that each space has been painted at a separate time and with a variety of paints.

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How to Read the Test Report Data Sheets

The standard test report data sheets in the XRF Test Results section of the report have thirteen columns of information. An explanation of each column is detailed below:

1) # — All of the measurements taken at the site are numbered sequentially.

2) **Site** — The number in this column is the identification number for this job site.

3) **Room-Tested** — Each room/space tested is identified in this column. When more than one similar type of room/space is tested they are numbered sequentially as shown in column 4. Each room/space, as identified in the test data, is shown on the floor plan.

4) # — The number in this column is coupled with column 3 (Room-Tested) to distinguish similar room types. For example: Bedroom 1, Bedroom 2, etc. as shown on the floor plan.

5) **Wall** — The walls in each room/space are identified to show on which wall surface in the room each measurement was taken. The wall numbers are shown on the floor plan.

6) **Component** — This column identifies the type of building component where the measurement was taken. The location of each measurement is randomly selected on that component.

7) **Condition** — The paint condition at the time of testing is listed in this column.

8) **Substrate** — The material that the building component is made of is called the substrate.

9) **K-Shell (mg/cm^2)** — The K-Shell is the measurement that evaluates the lead content in all layers of paint down to the substrate material. The measurement is in milligrams per square centimeter.

10) **L-Shell (mg/cm^2)** — The L-Shell is the measurement that evaluates the lead content in surface layers of paint.

11) **Map #** — Identification number of the MAP instrument used for this test.

12) **Result** — The result of the measurement is related to the action level (allowable lead level) and adjusted for the level of precision used for that measurement.

(Pos)	Positive result	>	Action Level + precision level
(Incl)	Inconclusive range	=	Action Level +/- precision level.
(Neg)	Negative result	<	Action Level - precision level

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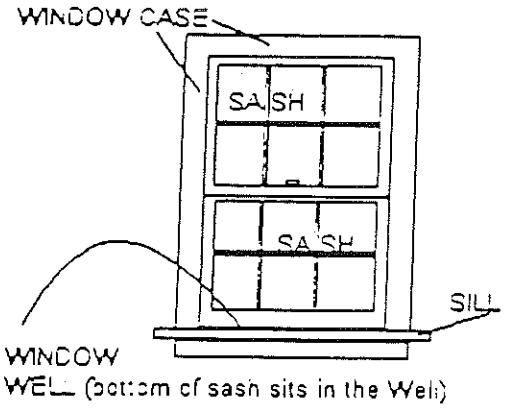

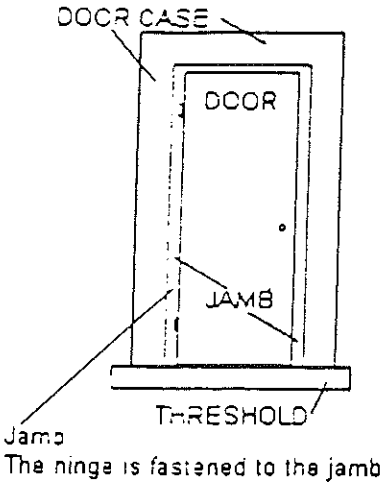

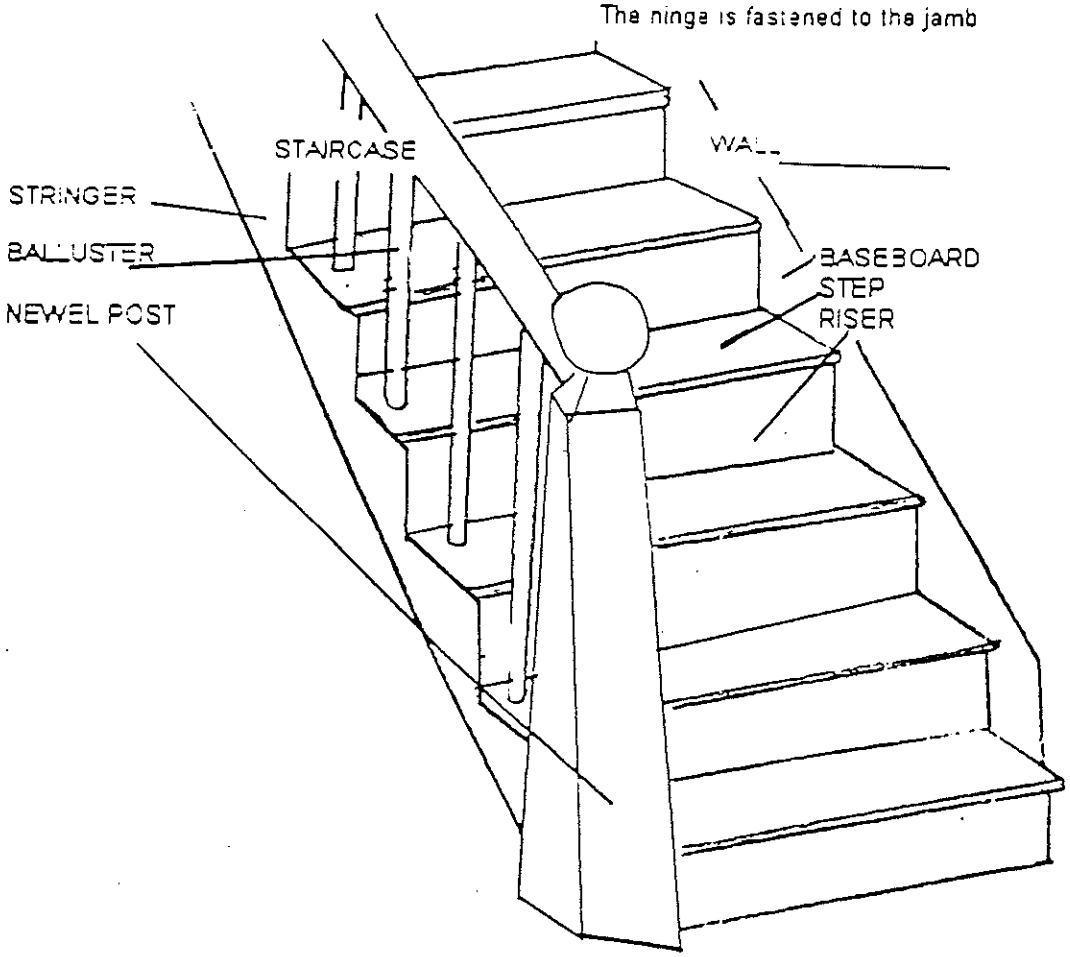

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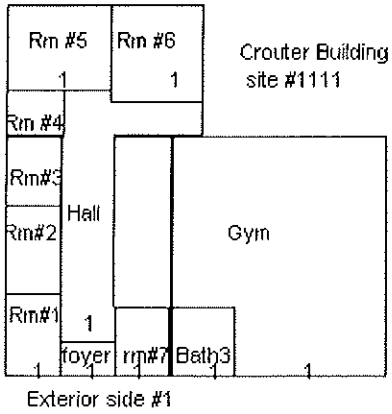
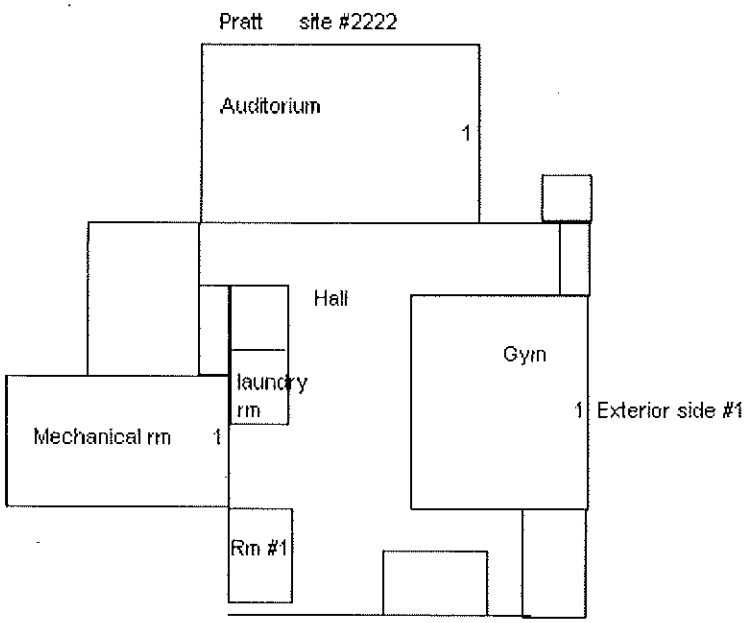
FLOOR PLAN

Mystic Education Center





NOTE: The room layout sketch is only for identifying the rooms/spaces on the test report.
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This sketch is not to scale.

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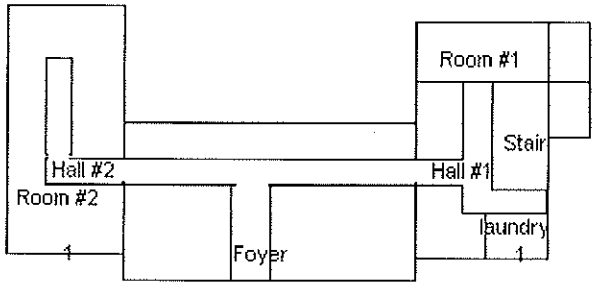
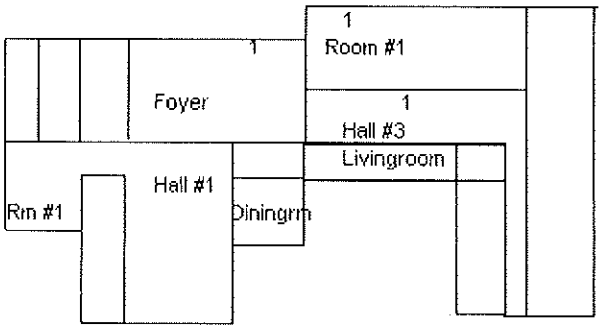
FLOOR PLAN

Mystic Education Center

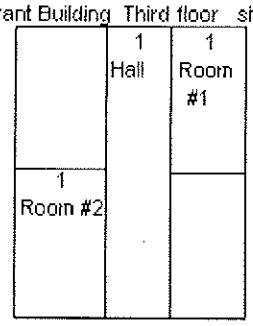
Durant Building First floor site 3331



Durant Building Second floor site #3332



Durant Building Third floor site #3333



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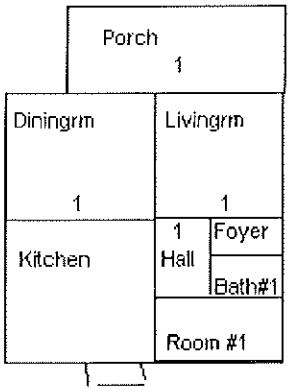
FLOOR PLAN

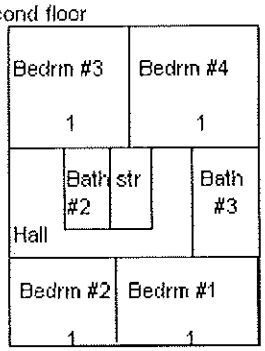
Mystic Education Center

Rainbow House First floor site 4444



Exterior side #1

Second floor



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Leadsafe, Inc.

XRF Results

Customer: LEADSAFE, INC.

Project Name: Delta Environmental
12/07/00

Site Name: Mystic Education Center
Crouter Building

Action Level 1.000 Lab 1.000 0

Total Assays Reported 53

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
67428	1111	Calibration	*	*	*	*	*	0.000 X	0.000 X	0		
67429	1111	Calibration	*	*	*	*	*	1.040 K	0.969 L	354		Incl
67430	1111	Foyer	1	2	Radiator	Thin Metal	Intact	0.289 S	0.000 X	354		Neg
67431	1111	Hallway	1	2	Wall	Thin Metal	Intact	0.014 S	0.000 X	354		Neg
67432	1111	Hallway	1	2	Door	Thin Metal	Intact	-0.135 S	0.000 X	354		Neg
67433	1111	Hallway	1	2	Door Buck	Thin Metal	Intact	0.382 S	0.000 X	354		Neg
67434	1111	Hallway	1	4	Door	Thin Metal	Intact	-0.175 S	0.000 X	354		Neg
67435	1111	Hallway	1	4	Door	Thin Metal	Intact	0.036 S	0.000 X	354		Neg
67436	1111	Hallway	1	4	Door Buck	Thin Metal	Intact	0.013 S	0.000 X	354		Neg
67437	1111	Hallway	1	4	Column	Thin Metal	Intact	0.121 S	0.000 X	354		Neg
67438	1111	Hallway	1	4	Door	Thin Metal	Intact	-0.292 S	0.000 X	354		Neg
67439	1111	Room #1	1	1	Radiator	Thin Metal	Intact	-0.298 S	0.000 X	354		Neg
67440	1111	Room #1	1	2	Door	Thin Metal	Intact	-0.143 S	0.000 X	354		Neg
67441	1111	Room #1	1	2	Door Buck	Thin Metal	Intact	0.339 S	0.000 X	354		Neg
67442	1111	Room #1	1	3	Wall	Thin Metal	Intact	0.413 S	0.000 X	354		Neg
67443	1111	Room #1	1	4	Door	Thin Metal	Intact	-0.180 S	0.000 X	354		Neg
67444	111I	Room #2	1	1	Wall	Thin Metal	Intact	0.197 S	0.000 X	354		Neg
67445	1111	Room #2	1	1	Door	Thin Metal	Intact	0.019 S	0.000 X	354		Neg
67446	1111	Room #2	1	2	Door	Thin Metal	Intact	0.330 S	0.000 X	354		Neg
67447	1111	Room #2	1	2	Door Buck	Thin Metal	Intact	0.132 S	0.000 X	354		Neg
67448	1111	Room #2	1	4	Door	Thin Metal	Poor	0.251 S	0.000 X	354		Neg

 No Averaging Selected

Leadsafe, Inc.

XRF Results

Customer: LEADSAFE, INC.

Project Name: Delta Environmental
12/07/00

Site Name: Mystic Education Center
Crouter Building

Action Level 1.000 Lab 1.000 0

Total Assays Reported 53

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
67449	1111	Room #3	1	2	Radiator	Thin Metal	Intact	-0.021 S	0.000 X	354		Neg
67450	1111	Room #3	1	4	Door Buck	Thin Metal	Intact	0.391 S	0.000 X	354		Neg
67451	1111	Room #3	1	2	Beam	Thin Metal	Intact	0.343 S	0.000 X	354		Neg
67452	1111	Room #5	1	3	Door	Thin Metal	Poor	-0.086 S	0.000 X	354		Neg
67453	1111	Room #5	1	3	Door Buck	Thin Metal	Intact	0.177 S	0.000 X	354		Neg
67454	1111	Room #5	1	4	Wall	Thin Metal	Intact	-0.241 S	0.000 X	354		Neg
67455	1111	Room #5	1	1	Pipe	Thin Metal	Intact	-0.024 S	0.000 X	354		Neg
67456	1111	Room #6	1	2	Door	Thin Metal	Intact	-0.012 S	0.000 X	354		Neg
67457	1111	Room #6	1	4	Door	Thin Metal	Intact	0.193 S	0.000 X	354		Neg
67458	1111	Room #6	1	4	Door Buck	Thin Metal	Poor	0.123 S	0.000 X	354		Neg
67459	1111	Room #6	1	4	Pipe	Thin Metal	Intact	2.838 S	0.000 X	354		Pos
67460	1111	Room #6	1	4	Pipe	Thin Metal	Intact	10.460 S	0.000 X	354		Pos
67461	1111	Room #6	1	4	Pipe	Thin Metal	Intact	12.065 S	0.000 X	354		Pos
67462	1111	Foyer	2	1	Handrail	Thin Metal	Poor	0.190 S	0.000 X	354		Neg
67463	1111	Foyer	2	1	Stringer	Thin Metal	Poor	0.121 S	0.000 X	354		Neg
67464	1111	Foyer	2	2	Stair Riser	Thin Metal	Poor	0.508 S	0.000 X	354		Neg
67465	1111	Bathroom	3	2	Door	Thin Metal	Intact	-0.167 S	0.000 X	354		Neg
67466	1111	Bathroom	3	2	Door Buck	Thin Metal	Intact	0.115 S	0.000 X	354		Neg
67467	1111	Gymnasium	1	1	Column	Thin Metal	Intact	0.226 S	0.000 X	354		Neg
67468	1111	Gymnasium	1	2	Door Buck	Thin Metal	Intact	0.106 S	0.000 X	354		Neg
67469	1111	Gymnasium	1	3	Door	Thin Metal	Intact	0.289 S	0.000 X	354		Neg

Leadsafe, Inc.

XRF Results

Customer: LEADSAFE, INC.

Project Name: Delta Environmental
12/07/00

Site Name: Mystic Education Center
Crouter Building

Action Level 1.000 Lab 1.000 0

Total Assays Reported 53

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
67470	1111	Gymnasium	1	3	Door Buck	Thin Metal	Poor	-0.076 S	0.000 X	354		Neg
67471	1111	Gymnasium	1	2	Baseboard	Thin Metal	Poor	0.280 S	0.000 X	354		Neg
67472	1111	Room #6	1	4	Floor	Masonry	Poor	0.078 K	0.240 L	354		Neg
67473	1111	Exterior	1	1	Siding	Masonry	Poor	-0.737 K	-0.050 L	354		Neg
67474	1111	Exterior	1	1	Door	Thin Metal	Intact	0.426 S	0.000 X	354		Neg
67475	1111	Exterior	1	2	Door	Thin Metal	Intact	0.392 S	0.000 X	354		Neg
67476	1111	Exterior	1	2	Siding	Thin Metal	Intact	0.048 S	0.000 X	354		Neg
67477	1111	Exterior	1	3	Door	Thin Metal	Intact	0.633 S	0.000 X	354		Neg
67478	1111	Exterior	1	3	Siding	Masonry	Poor	-0.139 K	0.330 L	354		Neg
67479	1111	Exterior	1	4	Siding	Masonry	Poor	0.172 K	0.095 L	354		Neg
67480	1111	Calibration	*	*	*	*	*	1.076 K	0.908 L	354		Incl

Leadsafe, Inc.

XRF Results

Customer: LEADSAFE, INC.

Project Name: Delta Environmental
12/07/00

Site Name: Mystic Education Center
Pratt Building

Action Level 1.000 Lab 1.000 0

Total Assays Reported 40

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
67482	2222	Calibration	*	*	*	*	*	0.000 X	0.000 X	0		
67483	2222	Calibration	*	*	*	*	*	1.112 K	0.870 L	354		Incl
67484	2222	Room #1	1	1	Door Buck	Thin Metal	Intact	0.091 S	0.000 X	354		Neg
67485	2222	Room #1	1	1	Door	Thin Metal	Intact	-0.227 S	0.000 X	354		Neg
67486	2222	Laundry Room	1	2	Door	Thin Metal	Intact	-0.371 S	0.000 X	354		Neg
67487	2222	Laundry Room	1	2	Door Buck	Thin Metal	Intact	0.384 S	0.000 X	354		Neg
67488	2222	Laundry Room	1	2	Wall	Masonry	Intact	-0.279 K	0.212 L	354		Neg
67489	2222	Hallway	1	1	Wall	Masonry	Intact	-0.567 K	0.265 L	354		Neg
67490	2222	Hallway	1	3	Wall	Masonry	Intact	-0.057 K	-0.085 L	354		Neg
67491	2222	Auditorium	1	1	Wall	Masonry	Intact	0.167 K	0.016 L	354		Neg
67492	2222	Auditorium	1	2	Door Buck	Thin Metal	Intact	0.240 S	0.000 X	354		Neg
67493	2222	Auditorium	1	3	Door	Thin Metal	Intact	0.256 S	0.000 X	354		Neg
67494	2222	Auditorium	1	2	Wall	Masonry	Intact	-0.052 K	-0.124 L	354		Neg
67495	2222	Auditorium	1	4	Floor	Masonry	Intact	0.218 K	0.014 L	354		Neg
67496	2222	Gymnasium	1	1	Wall	Masonry	Intact	-0.762 K	0.098 L	354		Neg
67497	2222	Gymnasium	1	1	Door	Wood	Varnish	0.100 K	-0.013 L	354		Neg
67498	2222	Gymnasium	1	1	Door Buck	Thin Metal	Intact	0.223 S	0.000 X	354		Neg
67499	2222	Gymnasium	1	2	Door	Thin Metal	Intact	0.044 S	0.000 X	354		Neg
67500	2222	Gymnasium	1	3	Beam	Thin Metal	Intact	4.744 S	0.000 X	354		Pos
67501	2222	Gymnasium	1	3	Beam	Thin Metal	Poor	4.682 S	0.000 X	354		Pos
67502	2222	Gymnasium	1	4	Pipe	Thin Metal	Intact	2.466 S	0.000 X	354		Pos

 No Averaging Selected

Leadsafe, Inc.

XRF Results

Customer: LEADSAFE, INC.

Project Name: Delta Environmental
12/07/00

Site Name: Mystic Education Center
Pratt Building

Action Level 1.000 Lab 1.000 0

Total Assays Reported 40

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
67503	2222	Gymnasium	1	4	Door	Thin Metal	Intact	0.288 S	0.000 X	354		Neg
67504	2222	Gymnasium	1	4	Wall	Masonry	Intact	-0.874 S	0.000 X	354		Neg
67505	2222	Gymnasium	1	4	Bench	Wood	Varnish	-0.433 S	0.000 X	354		Neg
67506	2222	Mechanical Room	1	1	Handrail	Thin Metal	Intact	1.260 S	0.000 X	354		Pos
67507	2222	Mechanical Room	1	2	Stair Tread	Thin Metal	Intact	0.147 S	0.000 X	354		Neg
67508	2222	Mechanical Room	1	2	Stringer	Thin Metal	Intact	0.981 S	0.000 X	354		Incl
67509	2222	Mechanical Room	1	2	Stringer	Thin Metal	Intact	2.297 S	0.000 X	354		Pos
67510	2222	Mechanical Room	1	2	Pipe	Thin Metal	Intact	5.459 S	0.000 X	354		Pos
67511	2222	Mechanical Room	1	2	Machinery	Thin Metal	Intact	-0.147 S	0.000 X	354		Neg
67512	2222	Mechanical Room	1	3	Garage Door	Thin Metal	Intact	-0.036 S	0.000 X	354		Neg
67513	2222	Exterior	1	3	Door Buck	Thin Metal	Poor	0.074 S	0.000 X	354		Neg
67514	2222	Exterior	1	3	Door	Thin Metal	Intact	0.017 S	0.000 X	354		Neg
67515	2222	Exterior	1	3	Garage Door	Thin Metal	Intact	-0.134 S	0.000 X	354		Neg
67516	2222	Exterior	1	3	Door Buck	Thin Metal	Intact	0.167 S	0.000 X	354		Neg
67517	2222	Exterior	1	3	Lintel	Thin Metal	Intact	0.203 S	0.000 X	354		Neg
67518	2222	Exterior	1	2	Door	Thin Metal	Intact	0.012 S	0.000 X	354		Neg
67519	2222	Exterior	1	1	Door	Thin Metal	Intact	0.278 S	0.000 X	354		Neg
67520	2222	Calibration	*	*	*	*	*	0.715 S	0.000 X	354		Neg
67521	2222	Calibration	*	*	*	*	*	0.979 K	0.879 L	354		Incl

Leadsafe, Inc.

XRF Results

Customer: LEADSAFE, INC.

Project Name: Delta Environmental
12/07/00

Site Name: Mystic Education Center
Durant Building 1st. floor

Action Level 1.000 Lab 1.000 0

Total Assays Reported 38

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
67523	3331	Calibration	*	*	*	*	*	0.000 X	0.000 X	0		
67524	3331	Calibration	*	*	*	*	*	1.012 K	0.876 L	354		Incl
67525	3331	Room #1	1	1	Wall	Wallboard	Wallpaper	-0.110 K	-0.173 L	354		Neg
67526	3331	Room #1	1	1	Ceiling	Wallboard	Intact	0.472 K	0.284 L	354		Neg
67527	3331	Room #1	1	1	Door	Wood	Varnish	-0.084 K	-0.106 L	354		Neg
67528	3331	Room #1	1	3	Door	Thin Metal	Intact	-0.218 S	0.000 X	354		Neg
67529	3331	Room #1	1	3	Door Buck	Thin Metal	Intact	-0.096 S	0.000 X	354		Neg
67530	3331	Room #1	1	3	Radiator	Thin Metal	Intact	0.118 S	0.000 X	354		Neg
67531	3331	Room #1	1	1	Window Case	Thin Metal	Intact	-0.015 S	0.000 X	354		Neg
67532	3331	Room #2	1	1	Wall	Wallboard	Wallpaper	-0.421 S	0.000 X	354		Neg
67533	3331	Room #2	1	1	Wall	Wallboard	Wallpaper	0.316 K	-0.115 L	354		Neg
67534	3331	Room #2	1	4	Wall	Wallboard	Wallpaper	-0.490 K	0.364 L	354		Neg
67535	3331	Hallway	1	3	Wall	Wallboard	Wallpaper	-0.210 K	-0.060 L	354		Neg
67536	3331	Hallway	1	3	Door	Wood	Varnish	-0.233 K	0.083 L	354		Neg
67537	3331	Hallway	1	3	Door Buck	Thin Metal	Intact	0.248 S	0.000 X	354		Neg
67538	3331	Hallway	1	3	Window Case	Thin Metal	Intact	-0.154 S	0.000 X	354		Neg
67539	3331	Hallway	1	4	Door Buck	Thin Metal	Intact	0.256 S	0.000 X	354		Neg
67540	3331	Hallway	1	2	Radiator	Thin Metal	Intact	0.062 S	0.000 X	354		Neg
67541	3331	Hallway	2	2	Door	Thin Metal	Intact	-0.623 S	0.000 X	354		Neg
67542	3331	Hallway	2	2	Door Buck	Thin Metal	Intact	0.110 S	0.000 X	354		Neg
67543	3331	Hallway	2	3	Door Buck	Thin Metal	Intact	0.086 S	0.000 X	354		Neg

Leadsafe, Inc.

XRF Results

Customer: LEADSAFE, INC.

Project Name: Delta Environmental
12/07/00

Site Name: Mystic Education Center
Durant Building 1st. floor

Action Level 1.000 Lab 1.000 0

Total Assays Reported 38

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
67523	3331	Calibration	*	*	*	*	*	0.000 X	0.000 X	0		
67524	3331	Calibration	*	*	*	*	*	1.012 K	0.876 L	354		Incl
67525	3331	Room #1	1	1	Wall	Wallboard	Wallpaper	-0.110 K	-0.173 L	354		Neg
67526	3331	Room #1	1	1	Ceiling	Wallboard	Intact	0.472 K	0.284 L	354		Neg
67527	3331	Room #1	1	1	Door	Wood	Varnish	-0.084 K	-0.106 L	354		Neg
67528	3331	Room #1	1	3	Door	Thin Metal	Intact	-0.218 S	0.000 X	354		Neg
67529	3331	Room #1	1	3	Door Buck	Thin Metal	Intact	-0.096 S	0.000 X	354		Neg
67530	3331	Room #1	1	3	Radiator	Thin Metal	Intact	0.118 S	0.000 X	354		Neg
67531	3331	Room #1	1	1	Window Case	Thin Metal	Intact	-0.015 S	0.000 X	354		Neg
67532	3331	Room #2	1	1	Wall	Wallboard	Wallpaper	-0.421 S	0.000 X	354		Neg
67533	3331	Room #2	1	1	Wall	Wallboard	Wallpaper	0.316 K	-0.115 L	354		Neg
67534	3331	Room #2	1	4	Wall	Wallboard	Wallpaper	-0.490 K	0.364 L	354		Neg
67535	3331	Hallway	1	3	Wall	Wallboard	Wallpaper	-0.210 K	-0.060 L	354		Neg
67536	3331	Hallway	1	3	Door	Wood	Varnish	-0.233 K	0.083 L	354		Neg
67537	3331	Hallway	1	3	Door Buck	Thin Metal	Intact	0.248 S	0.000 X	354		Neg
67538	3331	Hallway	1	3	Window Case	Thin Metal	Intact	-0.154 S	0.000 X	354		Neg
67539	3331	Hallway	1	4	Door Buck	Thin Metal	Intact	0.256 S	0.000 X	354		Neg
67540	3331	Hallway	1	2	Radiator	Thin Metal	Intact	0.062 S	0.000 X	354		Neg
67541	3331	Hallway	2	2	Door	Thin Metal	Intact	-0.623 S	0.000 X	354		Neg
67542	3331	Hallway	2	2	Door Buck	Thin Metal	Intact	0.110 S	0.000 X	354		Neg
67543	3331	Hallway	2	3	Door Buck	Thin Metal	Intact	0.086 S	0.000 X	354		Neg

Leadsafe, Inc.

XRF Results

Customer: LEADSAFE, INC.

Project Name: Delta Environmental
12/07/00

Site Name: Mystic Education Center
Durant Building 2nd. floor

Action Level 1.000 Lab 1.000 0

Total Assays Reported 30

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
67562	3332	Calibration	*	*	*	*	*	0.000 X	0.000 X	0		
67563	3332	Foyer	1	2	Wall	Wallboard	Wallpaper	-0.124 K	0.082 L	0		Neg
67564	3332	Foyer	1	2	Wall	Wallboard	Intact	0.083 K	0.136 L	0		Neg
67565	3332	Foyer	1	2	Door Buck	Thin Metal	Intact	-0.188 S	0.000 X	0		Neg
67566	3332	Foyer	1	2	Door	Thin Metal	Intact	0.222 S	0.000 X	0		Neg
67567	3332	Hallway	1	1	Door Buck	Thin Metal	Intact	0.105 S	0.000 X	0		Neg
67568	3332	Hallway	1	1	Door	Thin Metal	Intact	0.047 S	0.000 X	0		Neg
67569	3332	Hallway	1	2	Wall	Wallboard	Intact	0.126 K	0.286 L	0		Neg
67570	3332	Hallway	1	3	Wall	Wallboard	Intact	0.260 K	0.296 L	0		Neg
67571	3332	Hallway	1	3	Door	Wood	Varnish	0.138 K	-0.259 L	0		Neg
67572	3332	Living Room	1	2	Wall	Wallboard	Wallpaper	0.013 K	0.029 L	0		Neg
67573	3332	Living Room	1	3	Wall	Wallboard	Wallpaper	-0.050 K	-0.027 L	0		Neg
67574	3332	Living Room	1	1	Door Buck	Thin Metal	Intact	0.218 S	0.000 X	0		Neg
67575	3332	Living Room	1	1	Door	Thin Metal	Intact	0.148 S	0.000 X	0		Neg
67576	3332	Living Room	1	4	Door Buck	Thin Metal	Intact	-0.067 S	0.000 X	0		Neg
67577	3332	Room #1	1	1	Window Case	Thin Metal	Intact	0.088 S	0.000 X	0		Neg
67578	3332	Room #1	1	3	Door Buck	Thin Metal	Intact	0.111 S	0.000 X	0		Neg
67579	3332	Room #1	1	3	Door	Thin Metal	Intact	-0.154 S	0.000 X	0		Neg
67580	3332	Room #1	1	2	Wall	Wallboard	Wallpaper	-0.544 K	-0.108 L	0		Neg
67581	3332	Room #2	1	1	Wall	Wallboard	Wallpaper	0.217 K	0.128 L	0		Neg
67582	3332	Room #2	1	3	Wall	Wallboard	Wallpaper	-0.457 K	0.018 L	0		Neg

Leadsafe, Inc.

XRF Results

Customer: LEADSAFE, INC.

Project Name: Delta Environmental
12/07/00

Site Name: Mystic Education Center
Durant Building 2nd. floor

Action Level 1.000 Lab 1.000 0

Total Assays Reported 30

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
67583	3332	Room #2	1	2	Door	Wood	Varnish	0.118 K	0.140 L	0		Neg
67584	3332	Dining Room	1	1	Wall	Wallboard	Wallpaper	0.264 K	-0.070 L	0		Neg
67585	3332	Dining Room	1	3	Wall	Wallboard	Wallpaper	-0.069 K	-0.157 L	0		Neg
67586	3332	Dining Room	1	4	Wall	Wallboard	Wallpaper	0.341 K	-0.066 L	0		Neg
67587	3332	Dining Room	1	4	Door	Wood	Varnish	-0.211 K	-0.233 L	0		Neg
67588	3332	Hallway	3	2	Wall	Wallboard	Wallpaper	0.155 K	0.136 L	0		Neg
67589	3332	Hallway	3	4	Wall	Wallboard	Wallpaper	0.124 K	0.087 L	0		Neg
67590	3332	Hallway	3	4	Door Buck	Thin Metal	Intact	0.109 S	0.000 X	0		Neg
67591	3332	Hallway	3	4	Door	Thin Metal	Intact	0.243 S	0.000 X	0		Neg

 No Averaging Selected

Leadsafe, Inc.

XRF Results

Customer: LEADSAFE, INC.

Project Name: Delta Environmental
12/07/00

Site Name: Mystic Education Center
Durant Building 3rd. floor

Action Level 1.000 Lab 1.000 0

Total Assays Reported 14

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
67593	3333	Calibration	*	*	*	*	*	0.000 X	0.000 X	0		
67594	3333	Hallway	1	2	Wall	Wallboard	Wallpaper	-0.017 S	0.000 X	0		Neg
67595	3333	Hallway	1	2	Wall	Wallboard	Wallpaper	0.397 K	0.217 L	0		Neg
67596	3333	Hallway	1	2	Door	Wood	Varnish	-0.039 K	0.022 L	0		Neg
67597	3333	Hallway	1	4	Wall	Wallboard	Intact	-0.294 K	0.533 L	0		Neg
67598	3333	Room #1	1	1	Wall	Wallboard	Intact	-0.432 K	0.493 L	0		Neg
67599	3333	Room #1	1	2	Wall	Wallboard	Intact	0.374 K	0.069 L	0		Neg
67600	3333	Room #1	1	4	Wall	Wallboard	Intact	0.125 K	0.262 L	0		Neg
67601	3333	Room #1	1	4	Door Buck	Thin Metal	Intact	-0.027 S	0.000 X	0		Neg
67602	3333	Room #2	1	1	Wall	Wallboard	Intact	0.399 K	0.233 L	0		Neg
67603	3333	Room #2	1	4	Wall	Wallboard	Intact	0.192 K	0.140 L	0		Neg
67604	3333	Room #2	1	2	Wall	Wallboard	Wallpaper	-0.068 K	0.214 L	0		Neg
67605	3333	Calibration	*	*	*	*	*	1.136 K	0.895 L	354		Incl
67606	3333	Calibration	*	*	*	*	*	1.167 K	0.919 L	354		Incl

Leadsafe, Inc.

XRF Results

Customer: LEADSAFE, INC.

Project Name: Delta Environmental
12/07/00

Site Name: Mystic Education Center
Rainbow House Group Home

Action Level 1.000 Lab 1.000 0

Total Assays Reported 171

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
67608	4444	Calibration	*	*	*	*	*	0.000 X	0.000 X	0		
67609	4444	Calibration	*	*	*	*	*	1.161 K	0.976 L	354		Incl
67610	4444	Kitchen	1	1	Door	Wood	Varnish	-0.165 K	-0.002 L	354		Neg
67611	4444	Kitchen	1	1	Door Case	Wood	Varnish	0.355 K	0.019 L	354		Neg
67612	4444	Kitchen	1	1	Wall	Wallboard	Intact	-0.033 K	-0.102 L	354		Neg
67613	4444	Kitchen	1	2	Window Case	Wood	Varnish	0.456 K	0.114 L	354		Neg
67614	4444	Kitchen	1	4	Wall	Wallboard	Intact	0.365 K	0.164 L	354		Neg
67615	4444	Kitchen	1	4	Door Case	Wood	Intact	0.098 K	-0.064 L	354		Neg
67616	4444	Dining Room	1	1	Wall	Plaster	Intact	-0.145 K	0.079 L	354		Neg
67617	4444	Dining Room	1	2	Wall	Plaster	Intact	0.007 K	0.439 L	354		Neg
67618	4444	Dining Room	1	2	Window Case	Wood	Intact	2.188 K	-0.026 L	354		Pos
67619	4444	Dining Room	1	2	Window Sill	Wood	Poor	3.474 K	0.576 L	354		Pos
67620	4444	Dining Room	1	2	Window Sash	Wood	Poor	5.495 K	0.591 L	354		Pos
67621	4444	Dining Room	1	3	Wall	Plaster	Intact	0.835 K	-0.617 L	354		Incl
67622	4444	Dining Room	1	3	Wall	Plaster	Intact	0.461 K	-0.578 L	354		Neg
67623	4444	Dining Room	1	3	Door Case	Wood	Intact	0.196 K	-0.085 L	354		Neg
67624	4444	Dining Room	1	4	Wall	Plaster	Intact	1.505 K	-0.776 L	354		Pos
67625	4444	Dining Room	1	4	Baseboard	Wood	Intact	0.548 K	-0.066 L	354		Neg
67626	4444	Dining Room	1	4	Ceiling	Plaster	Intact	-0.022 K	-0.816 L	354		Neg
67627	4444	Porch	1	1	Siding	Masonry	Intact	8.078 K	0.162 L	354		Pos
67628	4444	Porch	1	1	Door Case	Wood	Intact	8.687 K	0.485 L	354		Pos

Leadsafe, Inc.

XRF Results

Customer: LEADSAFE, INC.

Project Name: Delta Environmental
12/07/00

Site Name: Mystic Education Center
Rainbow House Group Home

Action Level 1.000 Lab 1.000 0

Total Assays Reported 171

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
[illegible]	4444	Porch	1	2	Wall	Wallboard	Intact	4.480 K	0.859 L	354		Pos
[illegible]	4444	Porch	1	3	Window Sash	Wood	Poor	6.497 K	0.865 L	354		Pos
[illegible]	4444	Porch	1	3	Window Case	Wood	Poor	7.331 K	0.003 L	354		Pos
[illegible]	4444	Porch	1	3	Window Sill	Wood	Intact	7.614 K	0.793 L	354		Pos
[illegible]	4444	Porch	1	3	Door	Wood	Poor	5.370 K	0.621 L	354		Pos
[illegible]	4444	Porch	1	3	Door Case	Wood	Poor	6.213 K	-0.102 L	354		Pos
[illegible]	4444	Porch	1	3	Door Jamb	Wood	Poor	2.883 K	-0.645 L	354		Pos
[illegible]	4444	Porch	1	3	Wall	Wallboard	Intact	3.915 K	-0.306 L	354		Pos
[illegible]	4444	Porch	1	4	Wall	Wood	Poor	5.137 K	0.062 L	354		Pos
[illegible]	4444	Porch	1	4	Ceiling	Wood	Intact	2.326 K	-0.135 L	354		Pos
[illegible]	4444	Porch	1	1	Door Case	Wood	Poor	10.005 K	0.603 L	354		Pos
[illegible]	4444	Living Room	1	1	Wall	Wallboard	Intact	0.247 K	-0.138 L	354		Neg
[illegible]	4444	Living Room	1	2	Door Case	Wood	Poor	1.645 K	0.091 L	354		Pos
[illegible]	4444	Living Room	1	2	Wall	Plaster	Intact	0.282 K	-0.658 L	354		Neg
[illegible]	4444	Living Room	1	3	Mantle	Wood	Intact	1.495 K	-0.309 L	354		Pos
[illegible]	4444	Living Room	1	3	Wall	Plaster	Intact	0.490 K	-0.937 L	354		Neg
[illegible]	4444	Living Room	1	3	Wall	Plaster	Intact	1.038 K	-0.865 L	354		Incl
[illegible]	4444	Living Room	1	3	Door Case	Wood	Poor	2.195 K	0.177 L	354		Pos
[illegible]	4444	Living Room	1	4	Window Sash	Wood	Intact	4.742 K	-0.146 L	354		Pos
[illegible]	4444	Living Room	1	4	Window Sill	Wood	Intact	4.021 K	0.349 L	354		Pos
[illegible]	4444	Living Room	1	4	Window Case	Wood	Intact	0.718 K	0.168 L	354		Neg

Page 2 of 9 Limit Set: 0 Coding Set: 1 No Averaging Selected

Leadsafe, Inc.

XRF Results

Customer: LEADSAFE, INC.

Project Name: Delta Environmental
12/07/00

Site Name: Mystic Education Center
Rainbow House Group Home

Action Level 1.000 Lab 1.000 0

Total Assays Reported 171

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
67650	4444	Hallway	1	1	Wall	Plaster	Intact	4.437 K	-0.311 L	354		Pos
67651	4444	Hallway	1	1	Door Case	Wood	Intact	2.238 K	-0.362 L	354		Pos
67652	4444	Hallway	1	1	Door	Wood	Intact	2.390 K	0.081 L	354		Pos
67653	4444	Hallway	1	2	Wall	Wallboard	Intact	0.481 K	0.398 L	354		Neg
67654	4444	Hallway	1	4	Wall	Plaster	Intact	-0.058 K	0.303 L	354		Neg
67655	4444	Hallway	1	4	Baseboard	Wood	Poor	3.322 K	0.185 L	354		Pos
67656	4444	Hallway	1	4	Ceiling	Wallboard	Intact	-0.321 K	0.084 L	354		Neg
67657	4444	Foyer	1	1	Wall	Wallboard	Intact	0.104 K	0.204 L	354		Neg
67658	4444	Foyer	1	3	Wall	Plaster	Poor	0.404 K	0.066 L	354		Neg
67659	4444	Foyer	1	4	Door Case	Wood	Intact	0.969 K	-0.280 L	354		Incl
67660	4444	Foyer	1	4	Door Case	Wood	Intact	0.483 K	0.028 L	354		Neg
67661	4444	Foyer	1	4	Door	Wood	Intact	3.273 K	-0.059 L	354		Pos
67662	4444	Foyer	1	4	Wall	Plaster	Intact	0.410 K	0.227 L	354		Neg
67663	4444	Foyer	1	4	Ceiling	Plaster	Intact	0.441 K	0.158 L	354		Neg
67664	4444	Bathroom	1	1	Wall	Plaster	Intact	0.944 K	0.233 L	354		Incl
67665	4444	Bathroom	1	1	Wall	Plaster	Intact	1.474 K	0.036 L	354		Pos
67666	4444	Bathroom	1	2	Door Case	Wood	Poor	0.163 K	-0.604 L	354		Neg
67667	4444	Bathroom	1	2	Door	Wood	Intact	1.709 K	0.639 L	354		Pos
67668	4444	Bathroom	1	2	Wall	Plaster	Intact	0.034 K	0.162 L	354		Neg
67669	4444	Bathroom	1	4	Window Sill	Wood	Poor	0.558 K	-0.221 L	354		Neg
67670	4444	Bathroom	1	4	Window Sash	Wood	Intact	3.554 K	-0.165 L	354		Pos

Leadsafe, Inc.

XRF Results

Customer: LEADSAFE, INC.

Project Name: Delta Environmental
12/07/00

Site Name: Mystic Education Center
Rainbow House Group Home

Action Level 1.000 Lab 1.000 0

Total Assays Reported 171

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
67671	4444	Bathroom	1	4	Window Case	Wood	Intact	0.548 K	-0.315 L	354		Neg
67672	4444	Bathroom	1	4	Baseboard	Wood	Poor	-0.091 K	-0.125 L	354		Neg
67673	4444	Room #1	1	1	Wall	Plaster	Intact	0.006 K	0.195 L	354		Neg
67674	4444	Room #1	1	2	Closet Shelf	Wood	Intact	-0.046 K	0.143 L	354		Neg
67675	4444	Room #1	1	3	Wall	Plaster	Intact	0.008 K	0.210 L	354		Neg
67676	4444	Room #1	1	3	Window Case	Wood	Poor	-0.065 K	-0.275 L	354		Neg
67677	4444	Room #1	1	3	Door	Wood	Intact	1.099 K	-0.301 L	354		Incl
67678	4444	Room #1	1	3	Door	Wood	Intact	2.432 K	-0.561 L	354		Pos
67679	4444	Room #1	1	4	Wall	Wallboard	Intact	-0.229 K	0.121 L	354		Neg
67680	4444	Room #1	1	4	Window Sill	Wood	Poor	3.742 K	0.007 L	354		Pos
67681	4444	Room #1	1	4	Window Sash	Wood	Intact	3.159 K	0.538 L	354		Pos
67682	4444	Room #1	1	4	Window Case	Wood	Intact	2.588 K	-0.139 L	354		Pos
67683	4444	Room #1	1	4	Ceiling	Wallboard	Intact	0.433 K	-0.492 L	354		Neg
67684	4444	Bedroom	1	1	Window Sash	Wood	Poor	2.606 K	0.108 L	354		Pos
67685	4444	Bedroom	1	1	Window Well	Wood	Intact	1.412 K	0.817 L	354		Pos
67686	4444	Bedroom	1	1	Window Well	Wood	Intact	2.170 K	0.765 L	354		Pos
67687	4444	Bedroom	1	1	Window Sill	Wood	Poor	0.393 K	-0.559 L	354		Neg
67688	4444	Bedroom	1	1	Window Case	Wood	Intact	0.201 K	-0.215 L	354		Neg
67689	4444	Bedroom	1	1	Wall	Wallboard	Intact	0.412 K	0.312 L	354		Neg
67690	4444	Bedroom	1	3	Wall	Wallboard	Intact	3.002 K	-0.519 L	354		Pos
67691	4444	Bedroom	1	2	Wall	Wallboard	Intact	0.453 K	0.277 L	354		Neg

Leadsafe. Inc.

XRF Results

Customer: LEADSAFE. INC.

Project Name: Delta Environmental
12/07/00

Site Name: Mystic Education Center
Rainbow House Group Home

Action Level 1.000 Lab 1.000 0

Total Assays Reported 171

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
67692	4444	Bedroom	1	4	Wall	Wallboard	Intact	0.460 K	0.250 L	354		Neg
67693	4444	Bedroom	1	4	Ceiling	Wallboard	Intact	0.125 K	-0.589 L	354		Neg
67694	4444	Bedroom	1	3	Door	Wood	Intact	-0.308 K	0.285 L	354		Neg
67695	4444	Bedroom	1	3	Door Case	Wood	Poor	-0.069 K	-0.929 L	354		Neg
67696	4444	Bedroom	1	3	Door Jamb	Wood	Intact	-0.024 K	-0.117 L	354		Neg
67697	4444	Bedroom	2	1	Window Sill	Wood	Poor	-0.317 K	-0.287 L	354		Neg
67698	4444	Bedroom	2	1	Window Case	Wood	Poor	0.594 K	-0.502 L	354		Neg
67699	4444	Bedroom	2	1	Window Sash	Wood	Poor	2.109 K	-0.506 L	354		Pos
67700	4444	Bedroom	2	1	Wall	Wallboard	Intact	0.397 K	0.251 L	354		Neg
67701	4444	Bedroom	2	2	Wall	Wallboard	Intact	-0.131 K	0.398 L	354		Neg
67702	4444	Bedroom	2	3	Door	Wood	Intact	-0.516 K	0.110 L	354		Neg
67703	4444	Bedroom	2	3	Door Case	Wood	Intact	0.346 K	0.272 L	354		Neg
67704	4444	Bedroom	2	4	Wall	Wallboard	Intact	0.429 K	0.258 L	354		Neg
67705	4444	Bathroom	1	1	Wall	Wallboard	Intact	-0.090 K	0.223 L	354		Neg
67706	4444	Bathroom	1	2	Door Case	Wood	Intact	0.169 K	-0.037 L	354		Neg
67707	4444	Bathroom	1	2	Door	Wood	Intact	-0.086 K	-0.049 L	354		Neg
67708	4444	Bathroom	1	3	Wall	Wallboard	Intact	0.156 K	0.249 L	354		Neg
67709	4444	Bathroom	1	3	Cornerboard	Wood	Intact	0.094 K	-0.020 L	354		Neg
67710	4444	Bathroom	1	4	Wall	Wallboard	Intact	0.366 K	0.149 L	354		Neg
67711	4444	Bathroom	1	4	Wall	Wallboard	Intact	-0.020 K	0.241 L	354		Neg
67712	4444	Bathroom	1	4	Ceiling	Wallboard	Intact	0.374 K	0.544 L	354		Neg

Leadsafe, Inc.

XRF Results

Customer: LEADSAFE, INC.

Project Name: Delta Environmental
12/07/00

Site Name: Mystic Education Center
Rainbow House Group Home

Action Level 1.000 Lab 1.000 0

Total Assays Reported 171

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
67713	4444	Hallway	1	1	Wall	Wallboard	Intact	-0.010 K	0.031 L	354		Neg
67714	4444	Hallway	1	2	Door Case	Wood	Intact	0.129 K	0.060 L	354		Neg
67715	4444	Hallway	1	2	Window Sash	Wood	Intact	3.221 K	0.296 L	354		Pos
67716	4444	Hallway	1	2	Window Case	Wood	Intact	0.447 K	-0.241 L	354		Neg
67717	4444	Hallway	1	2	Window Sill	Wood	Intact	0.396 K	0.122 L	354		Neg
67718	4444	Hallway	1	3	Wall	Wallboard	Intact	-0.407 K	0.176 L	354		Neg
67719	4444	Hallway	1	4	Wall	Wallboard	Intact	0.245 K	0.164 L	354		Neg
67720	4444	Bedroom	3	1	Wall	Wallboard	Intact	-0.043 K	0.227 L	354		Neg
67721	4444	Bedroom	3	1	Door Case	Wood	Intact	-0.005 K	0.227 L	354		Neg
67722	4444	Bedroom	3	2	Window Sash	Wood	Intact	2.785 K	0.420 L	354		Pos
67723	4444	Bedroom	3	2	Window Sill	Wood	Intact	0.503 K	-0.544 L	354		Neg
67724	4444	Bedroom	3	2	Window Case	Wood	Intact	0.584 K	-0.028 L	354		Neg
67725	4444	Bedroom	3	2	Wall	Wallboard	Intact	0.464 K	0.291 L	354		Neg
67726	4444	Bedroom	3	3	Wall	Wallboard	Intact	0.200 K	0.417 L	354		Neg
67727	4444	Bedroom	3	4	Wall	Wallboard	Intact	-0.423 K	0.016 L	354		Neg
67728	4444	Bedroom	4	1	Wall	Wallboard	Intact	-0.272 K	-0.265 L	354		Neg
67729	4444	Bedroom	4	1	Door Case	Wood	Intact	-0.031 K	0.163 L	354		Neg
67730	4444	Bedroom	4	1	Door	Wood	Intact	0.373 K	-0.054 L	354		Neg
67731	4444	Bedroom	4	2	Wall	Wallboard	Intact	2.361 K	-0.222 L	354		Pos
67732	4444	Bedroom	4	3	Wall	Wallboard	Intact	0.650 K	0.338 L	354		Neg
67733	4444	Bedroom	4	3	Window Sash	Wood	Poor	2.558 K	0.102 L	354		Pos

Leadsafe, Inc.

XRF Results

Customer: LEADSAFE, INC.

Project Name: Delta Environmental
12/07/00

Site Name: Mystic Education Center
Rainbow House Group Home

Action Level 1.000 Lab 1.000 0

Total Assays Reported 171

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
67734	4444	Bedroom	4	3	Window Sill	Wood	Intact	3.987 K	-0.011 L	354		Pos
67735	4444	Bedroom	4	3	Window Case	Wood	Intact	1.571 K	-0.317 L	354		Pos
67736	4444	Bedroom	4	4	Wall	Wallboard	Intact	-0.051 K	0.647 L	354		Neg
67737	4444	Bedroom	4	4	Ceiling	Wallboard	Intact	0.580 K	0.297 L	354		Neg
67738	4444	Bedroom	4	1	Baseboard	Wood	Intact	-0.006 K	0.015 L	354		Neg
67739	4444	Stairway	1	2	Wall	Wallboard	Intact	0.407 K	0.402 L	354		Neg
67740	4444	Stairway	1	4	Wall	Wallboard	Intact	-0.375 K	0.163 L	354		Neg
67741	4444	Stairway	1	1	Ceiling	Wallboard	Intact	0.163 K	0.364 L	354		Neg
67742	4444	Stairway	1	1	Wall	Wallboard	Intact	-0.179 K	0.312 L	354		Neg
67743	4444	Stairway	1	4	Baseboard	Wood	Intact	-0.241 K	-0.081 L	354		Neg
67744	4444	Exterior	1	1	Door	Wood	Varnish	0.020 K	0.002 L	354		Neg
67745	4444	Exterior	1	1	Door Case	Wood	Poor	14.884 K	1.162 L	354		Pos
67746	4444	Exterior	1	1	Wall	Wood	Intact	11.499 K	1.125 L	354		Pos
67747	4444	Exterior	1	1	Window Sash	Wood	Intact	14.180 K	1.298 L	354		Pos
67748	4444	Exterior	1	1	Ceiling	Wood	Intact	12.358 K	1.578 L	354		Pos
67749	4444	Exterior	1	1	Door	Wood	Intact	0.412 K	0.008 L	354		Neg
67750	4444	Exterior	1	1	Shutters	Wood	Poor	-0.501 K	0.460 L	354		Neg
67751	4444	Exterior	1	1	Window Case	Wood	Poor	4.222 K	0.582 L	354		Pos
67752	4444	Exterior	1	1	Cellar Window	Wood	Poor	6.122 K	0.902 L	354		Pos
67753	4444	Exterior	1	1	Column	Wood	Intact	13.535 K	0.655 L	354		Pos
67754	4444	Exterior	1	1	Siding	Wood	Intact	1.595 K	0.130 L	354		Pos

Leadsafe, Inc.

XRF Results

Customer: LEADSAFE, INC.

Project Name: Delta Environmental
12/07/00

Site Name: Mystic Education Center
Rainbow House Group Home

Action Level 1.000 Lab 1.000 0

Total Assays Reported 171

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
67755	4444	Exterior	1	1	Bilco door	Thin Metal	Intact	-0.606 S	0.000 X	354		Neg
67756	4444	Exterior	1	2	Window Sash	Wood	Intact	0.453 K	0.660 L	354		Neg
67757	4444	Exterior	1	2	Window Case	Wood	Intact	3.310 K	0.953 L	354		Pos
67758	4444	Exterior	1	2	Window Sash	Wood	Poor	0.972 K	0.287 L	354		Incl
67759	4444	Exterior	1	2	Window Sash	Wood	Poor	3.012 K	0.133 L	354		Pos
67760	4444	Exterior	1	2	Cellar Window	Wood	Poor	8.902 K	0.988 L	354		Pos
67761	4444	Exterior	1	2	Siding	Wood	Intact	0.241 K	0.102 L	354		Neg
67762	4444	Exterior	1	2	Cornerboard	Wood	Intact	0.178 K	-0.069 L	354		Neg
67763	4444	Exterior	1	3	Siding	Wood	Intact	0.527 K	0.332 L	354		Neg
67764	4444	Exterior	1	3	Window Case	Wood	Intact	1.271 K	0.472 L	354		Pos
67765	4444	Exterior	1	3	Window Sash	Wood	Poor	1.645 K	0.056 L	354		Pos
67766	4444	Exterior	1	3	Door	Wood	Poor	11.118 K	1.299 L	354		Pos
67767	4444	Exterior	1	3	Threshold	Wood	Poor	9.716 K	-0.020 L	354		Pos
67768	4444	Exterior	1	3	Door Case	Wood	Intact	2.099 K	0.564 L	354		Pos
67769	4444	Exterior	1	4	Window Case	Wood	Intact	15.008 K	0.707 L	354		Pos
67770	4444	Exterior	1	4	Window Sash	Wood	Poor	12.349 K	1.568 L	354		Pos
67771	4444	Exterior	1	4	Window Sill	Wood	Intact	6.482 K	0.990 L	354		Pos
67772	4444	Exterior	1	4	Siding	Wood	Intact	6.168 K	-0.223 L	354		Pos
67773	4444	Exterior	1	4	Shutters	Wood	Poor	-0.923 K	-0.010 L	354		Neg
67774	4444	Exterior	1	4	Cellar Window	Wood	Intact	10.683 K	2.071 L	354		Pos
67775	4444	Exterior	1	4	Column	Wood	Intact	1.093 K	0.097 L	354		Incl

Leadsafe, Inc.

XRF Results

Customer: LEADSAFE, INC.

Project Name: Delta Environmental
12/07/00

Site Name: Mystic Education Center
Rainbow House Group Home

Action Level 1.000 Lab 1.000 0

Total Assays Reported 171

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Lab	Result
67776	4444	Exterior	1	4	Column	Wood	Intact	12.018 K	1.073 L	354		Pos
67777	4444	Exterior	1	4	Door	Wood	Intact	1.711 K	0.326 L	354		Pos
67778	4444	Calibration	*	*	*	*	*	1.084 K	0.867 L	354		Incl

APPENDIX F

Federal Environmental Records

Facility Registry System (FRS)

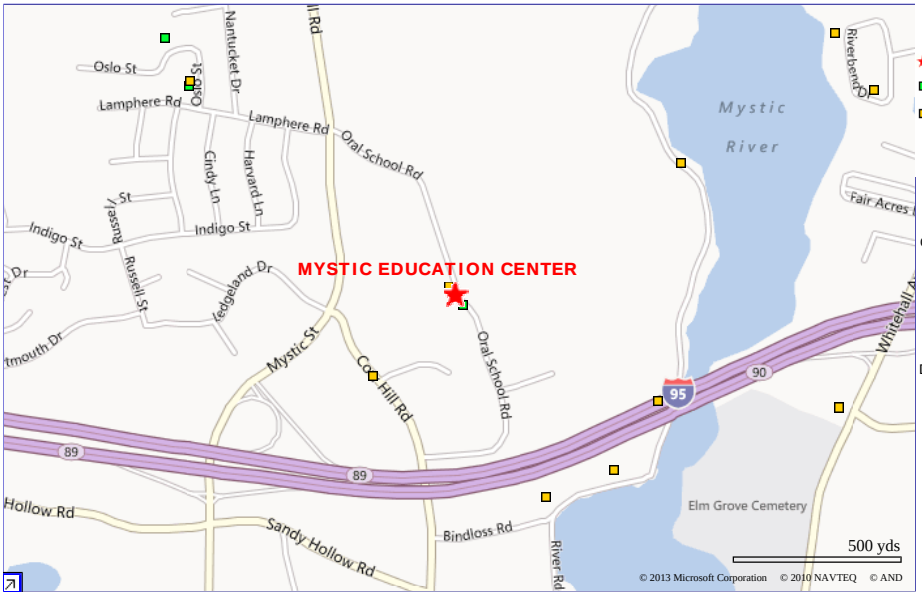
You are here: EPA Home Envirofacts FRS Report

Facility Detail Report

Report an Error

MYSTIC EDUCATION CENTER

240 ORAL SCHOOL RD
MYSTIC, CT 06355
EPA Registry Id: 110007247005



Legend

- Selected Facility
- EPA Facility of Interest
- State/Tribe Facility of Interest

The facility locations displayed come from the FRS Spatial Coordinates tables. They are the best representative locations for the displayed facilities based on the accuracy of the collection method and quality assurance checks performed against each location. The North American Datum of 1983 is used to display all coordinates.

Environmental Interests

Information System	Information System ID	Environmental Interest Type	Data Source	Last Updated Date	Supplemental Environmental Interests:
AIR FACILITY SYSTEM	0901100627	AIR MINOR (ACTIVE)	AIRS/AFS	03/18/2010	
CT - SITE INFORMATION MANAGEMENT SYSTEM	1532555	STATE MASTER	SIMS		**SIMS**-070-0082-R AIR PROGRAM **SIMS**-59-11286 UNDERGROUND STORAGE TANK PROGRAM **SIMS**-070-0004 AIR PROGRAM **SIMS**-070-0081-R AIR PROGRAM

Additional EPA Reports: MyEnvironment Enforcement and Compliance Site Demographics Watershed Report

Standard Industrial Classification Codes (SIC)

Data Source	SIC Code	Description	Primary
SIMS	8299	SCHOOLS AND EDUCATIONAL SERVICES, NOT ELSEWHERE CLASSIFIED	
AIRS/AFS	8299	SCHOOLS AND EDUCATIONAL SERVICES, NOT ELSEWHERE CLASSIFIED	

National Industry Classification System Codes (NAICS)

No NAICS Codes returned.

Facility Mailing Addresses

Affiliation Type	Delivery Point	City Name	State	Postal Code	Information System
UNKNOWN	ORAL SCHOOL RD	MYSTIC	CT	06355	SIMS
UNKNOWN	240 ORAL SCHOOL RD	MYSTIC	CT	06355-1208	SIMS
ORGANIZATION	JARVIS ST.	CHESHIRE	CT	06410	SIMS

Facility Codes and Flags

EPA Region:	01
Duns Number:	135594521
Congressional District Number:	02
Legislative District Number:	18
HUC Code/Watershed:	01100003 / THAMES
US Mexico Border Indicator:	NO
Federal Facility:	NO
Tribal Land:	NO

Contacts

No Contacts returned.

Alternative Names

Alternative Name	Source of Data
MYSTIC EDUCATIONAL C	AIRS/AFS
MYSTIC EDUCATIONAL CENTER	AIRS/AFS

http://iaspub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110007247005
Last updated on Thursday, February 07, 2013

Organizations

Affiliation Type	Name	DUNS Number	Information System	Mailing Address
ORGANIZATION	STATE OF CONNECTICUT, DEPARTMENT OF CORRECTION		SIMS	View
OWNER/OPERATOR		198790669	AIRS/AFS	
UNKNOWN	CONN DEPT OF EDUCATION		SIMS	View
UNKNOWN	CONN DEPT OF EDUCATION		SIMS	View
UNKNOWN	CONN DEPT OF EDUCATION		SIMS	View
UNKNOWN	TIM DESROCHES		SIMS	View

Query executed on: FEB-07-2013

MAP SCALE 1" = 500'

250 0 500 1000 FEET

METERS

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0388G

FIRM

FLOOD INSURANCE RATE MAP

NEW LONDON COUNTY, CONNECTICUT

ALL JURISDICTIONS

PANEL 388 OF 554

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
GROTON, TOWN OF	090097	0388	G
LEDYARD, TOWN OF	090157	0388	G

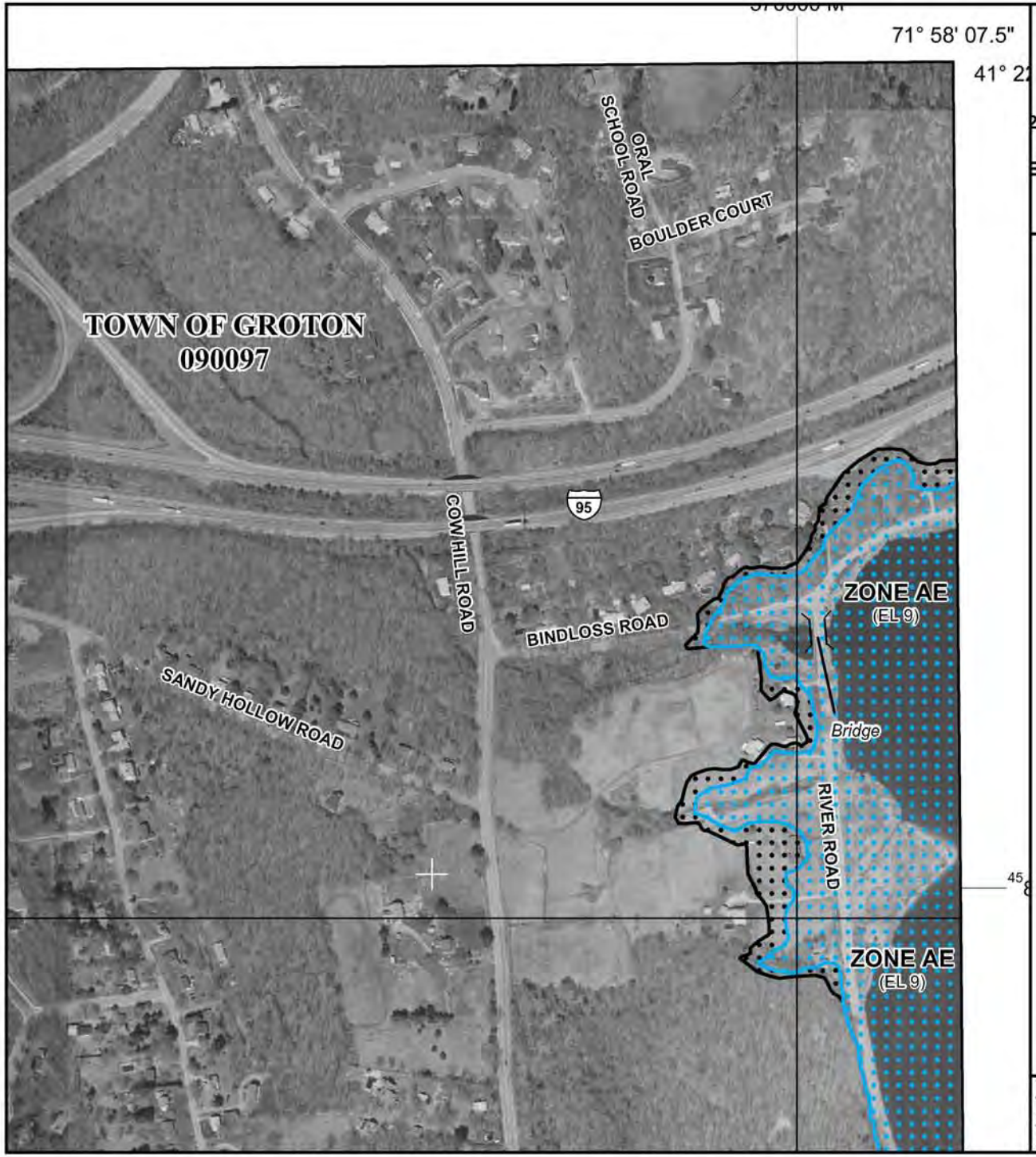
Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
09011C0388G

EFFECTIVE DATE
JULY 18, 2011

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



MAP SCALE 1" = 500'

250 0 500 1000 FEET

METERS

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0526G

FIRM

FLOOD INSURANCE RATE MAP

NEW LONDON COUNTY, CONNECTICUT

ALL JURISDICTIONS

PANEL 526 OF 554

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
GROTON, TOWN OF	090097	0526	G
NOANK FIRE DISTRICT	090129	0526	G
STONINGTON, TOWN OF	090106	0526	G

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
09011C0526G

EFFECTIVE DATE
JULY 18, 2011

Federal Emergency Management Agency

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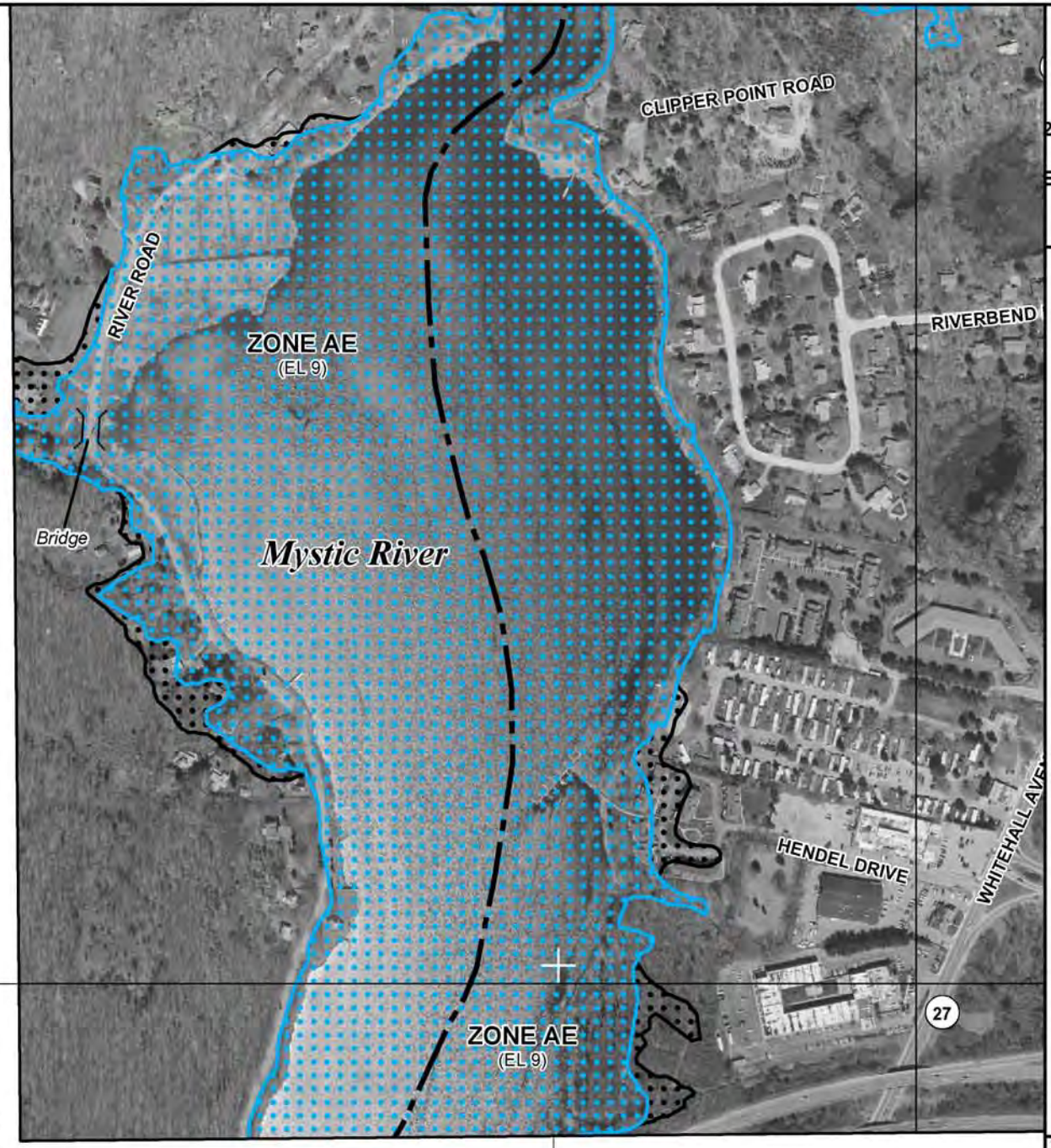

MAP SCALE 1" = 500'

250 0 500 1000

FEET

METERS

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0389G

FIRM

FLOOD INSURANCE RATE MAP

NEW LONDON COUNTY, CONNECTICUT

ALL JURISDICTIONS

PANEL 389 OF 554

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
GROTON, TOWN OF	090097	0389	G
LEDYARD, TOWN OF	090157	0389	G
STONINGTON, TOWN OF	090106	0389	G

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
09011C0389G

EFFECTIVE DATE
JULY 18, 2011

Federal Emergency Management Agency

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LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

MAP SCALE 1" = 500'

250 0 500 1000 FEET

METERS

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0388G

FIRM

FLOOD INSURANCE RATE MAP

NEW LONDON COUNTY, CONNECTICUT

ALL JURISDICTIONS

PANEL 388 OF 554

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

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COMMUNITY	NUMBER	PANEL	SUFFIX
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Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
09011C0388G

EFFECTIVE DATE
JULY 18, 2011

Federal Emergency Management Agency

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U.S. Fish and Wildlife Service

National Wetlands Inventory

240 Oral School Rd Wetlands Map

Jan 31, 2013

Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:

APPENDIX G

State Environmental Records

Hazardous Waste Manifests

GENERATOR SU MARY REPORT

1/1/1984 thru 12/31/2007

Generator EPA ID: ctp000028712

Generator Name & Site Address MYSTIC EDUCATIONAL CENTER
240 ORAL SCHOOL RD
MYSTIC , CT , 06355- USA

Mailing Address:
240 ORAL SCHOOL RD
GROTON , CT , 06355- USA

MANIFEST	DTSHIPPED	US DOT DESC	HAZ CL	# OF CONT	CONT TYPE	QTY	WT/VO	EPA CODE	BATCH#
CTF1066581									
	6/7/2005	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S	8	6	DF	180	G	D002	88 88
	6/7/2005	HAZARDOUS WASTE, SOLID, N.O.S.	9	15	DM	2250	P	D008	88 88
	6/7/2005	HAZARDOUS WASTE, SOLID, N.O.S.	9	4	DM	1200	P	D008	88 88
	6/7/2005	HAZARDOUS WASTE, LIQUID, N.O.S.	9	2	DM	110	G	D008	88 88
CTF1066583									
	6/7/2005	FLAMMABLE LIQUIDS, N.O.S.	3	1	CF	750	P	D001	88 88
	6/7/2005	hypOCHLORITes inorganic	5.1	1	DM	30	P	D001	88 88

GENERATOR SU MARY REPORT

1/1/1984 thru 12/31/2007

Generator EPA ID: **CTP000012457**

Generator Name & Site Address DPW ORAL SCHOOL
240 ORAL SCHOOL RD
MYSTIC , CT , 06355 USA

Mailing Address:
240 ORAL SCHOOL RD
MYSTIC , CT , 06355 USA

MANIFEST	DTSHIPPED	US DOT DESC	HAZ CL	# OF CONT	CONT TYPE	QTY	WT/VO	EPA CODE	BATCH#
CTF0080840	6/20/1991	HAZARDOUS WASTE SOLID, NOS	ORM-E	001	CM	15	Y	D009	999999

UST Records

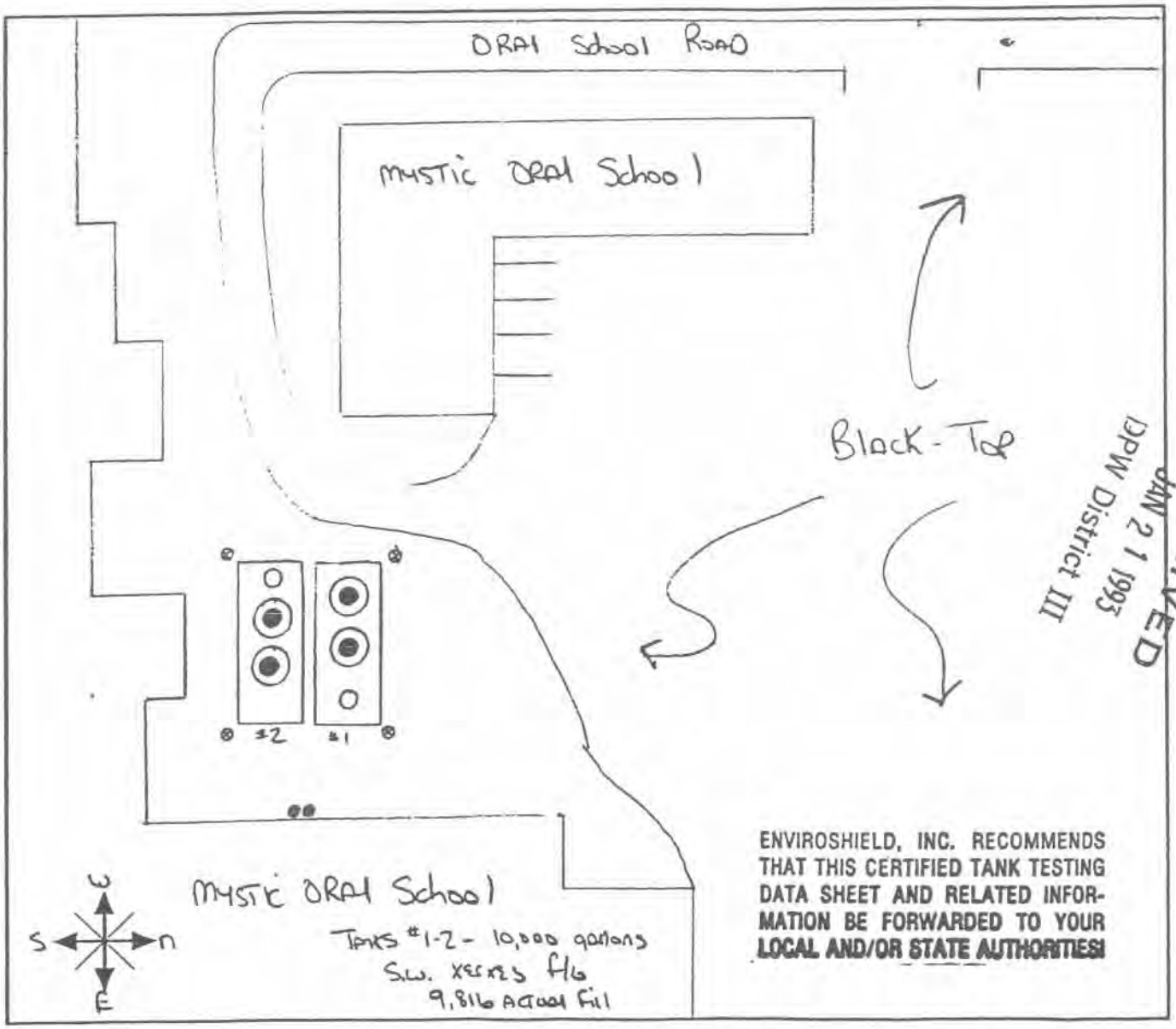
ENVIRO SHIELD INC.

SITE LAYOUT

Job Number: W.O. #P1905
Job Site: Mystic Oral School
240 Oral School Road
Mystic, CT

Date: January 11, 1993
Supervisor: Lenny
Site Phone:

Key:
- Submersible Pump (Make ?)
- Monitoring Well
- Fill (Specify Size) 4"
- Vent 2"
- Manifolded Vent
- Manifolded Vent Box
- Vapor Recovery Poppit
- Vapor Recovery Basket
- Monitoring System
- Boring
- Dispensers
- Concrete
- Remote Fill
- Siphon Bar
- Siphon Valve
- Annular Space
- Manhole
- Manway



ENVIROSHIELD, INC. RECOMMENDS THAT THIS CERTIFIED TANK TESTING DATA SHEET AND RELATED INFORMATION BE FORWARDED TO YOUR LOCAL AND/OR STATE AUTHORITIES!

RECEIVED JAN 21 1993 DPW District III

Enviroshield, Inc. P.O. Box D, Stratford, CT 06497 (203) 366 - 7988 FAX (203) 378 - 8736

Data Chart for Tank System Tightness Test

PLEASE PRINT

1. OWNER Property ■ Tank(s) ■

Name: STATE OF CONN. - PUBLIC WORKS | Address | Zip | Representative: TIM DESROCHES | Telephone: 536-4221

Name | Address | Zip | Representative | Telephone

2. OPERATOR

Name: MYSTIC ORAL SCHOOL | Address: 240 ORAL SCHOOL RD. MYSTIC, CT. | Zip | Telephone

3. REASON FOR TEST (Explain Fully)

PREVENTIVE MAINTENANCE - NEW INSTALLATION

4. WHO REQUESTED TEST AND WHEN

Name: BILL GERARDI | Title: COORDINATOR | Company or Affiliation: SITE REMEDIATION SERVICES INC | Date: 10-29-92

Address: P.O. BOX 967 EAST WINDSOR, CT. 06088 | Zip | Telephone: 623-8179

5. TANK INVOLVED Use additional lines for manifolded tanks

Identify by Direction	Capacity	Brand/Supplier	Grade	Approx. Age	Steel/Fiberglass
TANK #1	10,000	F+N	#2 FUEL OIL	NEW	XERXES F.G.S.W.
TANK #2	10,000				

6. INSTALLATION DATA

Location (North inside driveway, Rear of station, etc.)	Cover (Concrete, Black Top, Earth, etc.)	Fills (Size, Titefill make, Drop tubes, Remote Fills)	Vents (Size, Manifolded)	Siphones (Which tanks?)	Pumps (Suction, Remote, Make if known)
WEST OF BOILER ROOM	GRAVEL	4"	2"	NONE	SUCTIONS WITH RETURN LINES

7. UNDERGROUND WATER

Depth to the water table from grade 110"

Is the water over the tank? ■ Yes ☐ No

8. FILL-UP ARRANGEMENTS

Tanks to be filled _____ hr. _____ Date Arranged by BILL GERARDI (Name) 623-8179 (Telephone)

Extra product to "top off" and run tank tester. How and who to provide? Consider NO Lead.

Terminal or other contact for notice or inquiry: F+N (Company) EAST HAVEN, CT. (Name) (Telephone)

9. CONTRACTOR, MECHANICS, any other contractor involved

ENVIROSHIELD INC. PERFORMED THE TEST

RECEIVED JAN 21 1993 DPW District II

10. OTHER INFORMATION OR REMARKS

Additional information on any items above. Officials or others to be advised when testing is in progress or completed. Visitors or observers present during test, etc.

11. TEST METHOD

☐ PETRO TITE ☐ PETRO COMP ■ QUICK CHECK 2000

11a. TEST RESULTS

Tests were made on the above tank systems in accordance with test procedures prescribed for as detailed on attached test charts with results as follows:

Tank Identification	Tight	Net Volume Change Per Hour	Date Tested
TANK #1	Yes	-.008 gph	1-11-93
TANK #2	Yes	+.032 gph	1-11-93

12. SENSOR CERTIFICATION

Date: 1-12-93

Serial No. of Thermal Sensor: #0578-7880-QC2000

13. CONTRACTOR CERTIFICATION

Technicians

1. LEN BOCCHICCHIO — Certification # 121192B1022
2. MIKE ZAGATA — Certification # 121391B0357

Envirosheild, Inc. — Testing Contractor or Company. By: Signature

PO. Box D Stratford CT 06497 — Address

PN6827

14. MASTIC ORAL SCHOOL 210 ORAL

Name of Supplier, Owner or Dealer | Address No. and Street(s) | City | State | Date of Test

RECEIVED JAN 21 1995 NW District III

15. TANK TO TEST

TANK #1

Identity by position

F+N – #2 FUEL OIL

Brand and Grade

15a. BRIEF DIAGRAM OF TANK FIELD

SEE LAYOUT

16. CAPACITY

Nominal Capacity 10,000 Gallons

By most accurate capacity chart available 9,816 Gallons

From
- [x] Station Chart
- [x] Tank Manufacturer's Chart
- [ ] Company Engineering Data
- [ ] Charts supplied with Tank Tester
- [ ] Other

17. FILL-UP FOR TEST

Stick Water Bottom before Fill-up 0" to ¼" in. | 0" Gallons | 92 Tank Diameter in.

	Total Gallons ea. Reading
Inventory in Tank	9,816
Water Bottom	– 0
Top off equipment	+ 30
Total Quantity	9846

18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK

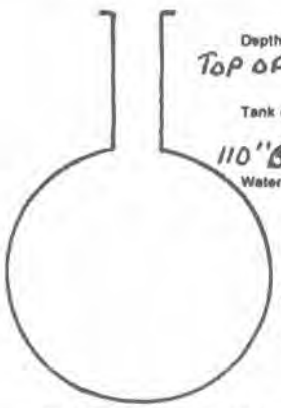
[ ] Water in tank [ ] Line(s) being tested with LVLLT [ ] High water table in tank excavation

See manual sections applicable. Check below and record procedure in log (27).

Use maximum allowable test pressure for all tests.
Four pound rule does not apply to doublewalled tanks.

Complete section below:

1. Is four pound rule required? Yes [x] No [ ]
2. Height to 12" mark from grade 38 in.
3. Pressure at bottom of tank 4.433 P.S.I.
4. Pressure at top of tank 2.697 P.S.I.



Depth of burial TO TOP OF FILL (GRADE) 141 in.

Tank dia. 92 in.

110" BELOW GRADE

Water table to tank bottom 31 in.

NOTES:
31 x .036 = 1.116 + 4 = 5.116 ÷ .031 = 165.03 – 141 = 24.03 ABOVE GRADE
5.549

The above calculations are to be used for dry soil conditions to establish a positive pressure advantage, or when using the four pound rule to compensate for the presence of subsurface water in the tank area.

Refer to N.F.P.A. 30, Sections 2-3.2.4 and 2-7.2 and the tank manufacturer regarding allowable system test pressures.

19. TANK MEASUREMENTS FOR TSTT ASSEMBLY

Bottom of tank to grade* N/A in.

Add 30" for "T" probe assy. 30 in.

Total tubing to assemble — approximate ____ in.

20. EXTENSION HOSE SETTING

Tank top to grade* N/A in.

Extend hose on suction tube 6" or more below tank top ____ in.

*If Fill pipe extends above grade, use top of fill.

USE WITH THERMAL SENSOR PN5039 (Blue Box)

22. Thermal-Sensor reading after circulation N/A digits

____ °F Between

23. Digits per °F in range of expected change ____ digits

21. VAPOR RECOVERY SYSTEM [x] Stage I [ ] Stage II

24b. COEFFICIENT OF EXPANSION RECIPROCAL METHOD

Type of Product #2 FUEL OIL

Hydrometer Employed 4 H

Temperature in Tank After Circulation 47,978 °F

Temperature of Sample 45 °F

Difference (+/-) -3 °F

Observed A.P.I. Gravity 29.3

Reciprocal 2260 Page # 33

9846 (Total quantity in full tank (17)) + 2260 (Reciprocal) = 4.3566371 (Volume change in this tank per °F)

Transfer to Line 26a.

24a. IF USING THERMAL SENSOR DTS-2000 OR QC-2000 WHICH READ 1000 DIGITS PER °F TRANSFER 1000 TO LINE 26, DIGITS PER °F IN TEST RANGE. *

24c. FOR TESTING WITH WATER see Table C & D

Water Temperature after Circulation Table C from Thermal Sensor N/A °F

Coefficient of Water Table D ____

Added Surfactant? [ ] Yes [ ] No Transfer COE to Line 25b.

25. (a) N/A (Total quantity in full tank (17)) × (b) ____ (Coefficient of expansion for involved product) = (c) ____ gallons (Volume change in this tank per °F)

26. (a) 4.3566371 (Volume change per °F (25 or 24b)) + 1000 (Digits per °F in test Range (23 or 24a)) = 0.0043566 (Volume change per digit Compute to 4 decimal places) This is test factor (a)

M&E Metcalf & Eddy
An Air & Water Technologies Company

August 31,1993

Mr. Steven Costello
ConnDPW Project Manager
U.S.T. Program
3rd Floor
30 Trinity Street
Hartford, Connecticut 06106

Subject: Tank Removal Report
ConnDPW Tank Program
Project #BI-2A-760-A12

Dear Mr. Costello:

Metcalf & Eddy, Inc. are pleased to submit one original and two copies of the tank removal report for the U.S.T. Remediation Project at Mystic Oral School, Mystic Connecticut. The two copies are for distribution to ConnDEP Underground Storage Tank Unit and Water Compliance Unit.

If you have any questions, please feel free to contact me.

Very truly yours,

METCALF & EDDY, INC.

Michael R. North

MRN:jlm
Attachments

cc: K. Brazauskas
~~R. Ulkus~~

One Research Parkway, Meriden, CT 06450
203-630-1735 FAX 203-630-1135

TANK REMOVAL REPORT

DEPARTMENT OF EDUCATION
MYSTIC ORAL SCHOOL
ORAL SCHOOL ROAD
MYSTIC, CONNECTICUT
PROJECT NO. BI-2A-760-A12

SUBMITTED TO:
CONNECTICUT DEPARTMENT OF PUBLIC WORKS
UNDERGROUND TANK UNIT
3RD FLOOR
30 TRINITY STREET
HARTFORD, CT 06106

AUGUST 1993

METCALF & EDDY, INC.
ONE RESEARCH PARKWAY
MERIDEN, CONNECTICUT 06450

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CONNECTICUT DEPARTMENT OF PUBLIC WORKS
STATEWIDE UNDERGROUND STORAGE TANK
CONNDPW PROJECT NO. BI-2B-760
TANK REMOVAL REPORT

SITE INSPECTION

Inspector: Michael North
Representing: Metcalf & Eddy, Inc.
Phone: 203-630-1735

Date: Tuesday 9-8-92, Wednesday 9-9-92
Weather: Cloudy, Drizzle/Rain 65°F,
Cloudy, Overcast, 65°F

BACKGROUND

SITE INFORMATION

Site Name: Mystic Oral School
Site Address: 240 Oral School Road

Site Contracts/Job Title: Tim Desroches, Facility Manager Phone: 203-536-4221
Rich MacPhail, Const. Coord. Phone: 203-486-2392

Agency Name: State of Connecticut Department of Education
Agency Address: 165 Capitol Avenue, Hartford, Connecticut
Agency Contact/Job Title: George Niles, Asst. Admin. Fac. Mgt. Phone: 203-566-2815

SITE RECONNAISSANCE

General Description: Site consists of several brick buildings, 2-4 stories high, a recreational field, grassed and bituminous paved areas. Site is generally level with some low hills.

GW Classification: GA

Private Wells: Yes ____ No X

Name: ____ Distance: ____ Direction ____

Water Bodies: Yes X No ____

Name: Mystic River (SB) Distance: 1500 ft Direction East
Bindloss Brook (Not Rated) 1500 ft. S-West

Other Receptors: Yes ____ No X

Type: ____ Distance: ____ Direction ____

Site Mapping:

Completed Site Sketch (1 inch = 20 feet) X
Completed Area Sketch (300 foot radius) X

TANK DATA

TANK DESCRIPTION

#1 Tank ID: - Date Removed: 9-8-92 @ 2:30 pm
Dimensions: 3'8" height. () x 2'3" width x 5'length Capacity: 250 gallons
Contents: HF#2 Tank Material: Steel
Condition: Entire exterior exhibited extensive surficial corrosion, steel piping also corroded. No rust holes.

#2 Tank ID: - Date Removed: 9-8-92 @ 3:45 pm
Dimensions: 4' (dia.) x 6' (length) Capacity: 500 gallons
Contents: Gasoline Tank Material: Steel
Condition: Entire exterior exhibited extensive surficial corrosion. Piping is copper, no corrosion, no rust holes.

#3 Tank ID: - Date Removed: 9-9-92 @ 8:15 am.
Dimensions: 8' (dia.) x 6' (length) Capacity: 7500 gallons
Contents: HF#2 Tank Material: Steel
Condition: Entire exterior exhibited surficial corrosion, ≈ 90% extensive, Steel piping corroded. No rust holes.

#4 Tank ID: - Date Removed: 9-9-92
Dimensions: 8' (dia.) x 26'6" (length) Capacity: 10,000 gallons
Contents: HF#2 Tank Material: Steel
Condition: Entire exterior exhibited extensive surficial corrosion, Steel piping also corroded, no rust holes.

OBSERVATIONS

VISITING PERSONNEL

ConnDEP:
Name: _____ Section _____ Phone _____

Fire Marshal:
Name: _____ Phone: _____
Address: _____

Other
Name: _____ Phone: _____ Company: _____
Address: _____

EXCAVATION DETAILS

Evidence of Contamination: Yes X No ____
Comments: Laboratory test results for soil located within the shared tank graves of the 7500 and 250 gallon HF#2 tanks came up with high concentrations of TPH.

Depth to Water Table: Not encountered
Tanks #1, #2, #3, #4 Soil Type: Sandy gravel, with some cobbles and boulders - med-coarse sand

Evidence of Bedrock: Yes ____ No X
Comments: _____

Dewatering Required: Yes ____ No X
Pumping Rate: _____ gpm
Influent Concentration (BETX) _____ ppb
Effluent Concentration (BETX) _____ ppb

PHOTO DOCUMENTATION

Site Prior to Removal	X	Piping Trench Removal	
Top of Tank in Gravel	X	Excavation Backfilling	
Tank out of Excavation	X	Site after Completion	
Open Tank Excavation	X	General Site Activities	X

CONTRACTORS

GENERAL CONTRACTOR
Tank Contractor: Site Remediation Phone: 623-8179 Contact: Bill Long
Address: 10 Stoughton Rd, East Windsor, CT

TANK DISPOSAL
Hauler: Northeast Tank Disposal Phone: 203-649-2755
Disposal Site: Manchester Facility Phone: 203-659-2755 Contact:
Address: 23 Electric Street, Manchester, CT
Disposal Site Certificate No. 5689 Date: 9-9-92

LIQUID DISPOSAL
Hauler: Conn. Waste Oil, Inc. Phone: 203-235-8889
Disposal Site: Conn. Waste Oil, Inc. Phone: 235-3753 Contact:
Address: 1250 Old Colony Road, Tracy, CT
Quantity: 1500 gallons Date: 9-9-92 Manifest No.:

SOIL DISPOSAL
Hauler: S&S Trucking Phone: 488-7300
Disposal Site: Branford Landfill Phone: 483-7444 Contact: Thomas Santa Barbara
Address: 41 Rose Hill Road, Branford, CT
Quantity: 52.90 tons Date: 5-5-93 Manifest No.: 00811-00814

OTHER DISPOSAL (PPE, Cleaning Supplies, Etc.)
Waste Description: -
Hauler: - Phone: -
Disposal Site: - Phone: - Contact: -
Address: -
Quantity - drums/tons Date: - Manifest No. -

DEWATERING
Contractor: - Phone: - Contact: -
Address: -

SAMPLING DATA

SOIL SAMPLING (sample locations on site sketch)
Soil Sample ID Numbers from Tank ID: #1 250 gal. HF#2 Tank

North Wall:	MYSOSC-MS001	North Wall*:	MYSOSC-MS027
South Wall:	MYSOSC-MS003	South Wall*:	MYSOSC-MS029
East Wall:	MYSOSC-MS002	South Wall**:	MYSOSC-MS034
West Wall:	MYSOSC-MS004	East Wall*:	MYSOSC-MS028
Bottom:	MYSOSC-MS005	Stock Pile:	MYSOSC-MS031 (Contaminated)
		Bottom*:	MYSOSC-MS030
		Bottom**:	MYSOSC-MS033

Soil Sample ID Numbers from Tank ID: #2 500 gal. Gasoline Tank

North Wall:	MYSOSC-MS006	Stock Pile:	MYSOSC-MS011 (Clean soil)
South Wall:	MYSOSC-MS008		
East Wall:	MYSOSC-MS007		

SAMPLING DATA (Continued)

Soil Sample ID Numbers from Tank ID: #3 7500 gal. HF#2 Tank

7500 Gal. HF#2 Tank	North Wall:	MYSOSC-MS012	Bottom QA:	MYSOSC-MS017
	South Wall:	MYSOSC-MS014	West Wall*:	MYSOSC-MS026
	East Wall:	MYSOSC-MS013	Bottom*:	MYSOSC-MS025
	West Wall:	MYSOSC-MS015	Bottom **:	MYSOSC-MS032
	Bottom:	MYSOSC-MS016		

Soil Sample ID Numbers from Tank ID: #4 10,00 gal. HF#2 Tank

7500 Gal. HF#2 Tank	North Wall:	MYSOSC-MS018	Piping Trench:	
	South Wall:	MYSOSC-MS020	Stock Pile:	
	East Wall:	MYSOSC-MS019	Stock Pile:	
	West Wall:	MYSOSC-MS021	West Wall QA:	MYSOSC-MS022
	Bottom:	MYSOSC-MS023	Stock Pile:	MYSOSC-MS024 (clean)

Results attached on Table 1
* Resample after contaminated soil removed
** Resample after additional contaminated soil removed

GROUND WATER (if encountered)

GW Sample ID No: _____

Tank Excavation:			
Domestic Well:		Owners Name:	
Domestic Well:		Owners Name:	
Domestic Well:		Owners Name:	

Results attached on Table 2: Yes _____ No _____

RECOMMENDATIONS

The confirmation soil samples collected from the 500 gallon gasoline tank grave and the 10,000 gallon HF#2 tank grave were analyzed for specific parameters and showed no contaminated soil was present in the tank graves. Confirmation soil samples were collected from the 250 gallon and 7,500 gallon HF#2 tank graves and analyzed for specific parameters. The analytical results indicated contaminated soil remained along the north, south and east walls and bottom of the 250 gallon HF#2 tank grave and along the west wall and bottom of the 7,500 gallon HF#2 tank grave. Additional soil excavation completely remediated the 7,500 gallon HF#2 tank grave, and remediation of the 250 gallon HF#2 tank grave, with the exception of the south wall where TPH was detected at a concentration of 110 mg/kg. A TPH concentration of 25 mg/kg was detected in the laboratory's method blank sample, so it is likely that the actual in-situ concentration of TPH is at or below the 100 mg/kg guideline as set by the ConnDEP.

The groundwater table was not encountered in any of the tank graves and therefore has not likely been impacted by the soil contamination. Based on the analytical results for all the confirmation samples, no contaminated soil remains in any of the tank graves and no further soil remediation is required.

TABLES

TABLE 1. SUMMARY OF ANALYTICAL RESULTS
Sample I.D.# Prefix: MYSOSC-

Sample I.D.#		MS001	MS002	MS003	MS004	MS005
Sample Location		N. WALL	E. WALL	S. WALL	W. WALL	BOTTOM
Sample Date		9-8-92	9-8-92	9-8-92	9-8-92	9-8-92
Tank Grave		250 HF#2	250 HF#2	250 HF#2	250 HF#2	250 HF#2
Parameters	Units	Concentrations				
U.S. EPA Method 8010 (1)	ug/kg	ND (2)	ND	ND	ND	ND
U.S. EPA Method 8020 (1)	ug/kg	ND	ND	ND	ND	ND
TCLP Metals (1)	ug/l	NA (3)	NA	NA	NA	NA
TPH by I.R.	mg/kg	132	127	309	30	131

1. Parameters not listed were not detected
2. ND = Not Detected
3. NA = Not Analyzed

TABLE 1. SUMMARY OF ANALYTICAL RESULTS (CONT.)
Sample I.D.# Prefix: MYSOSC-

Sample I.D.#		MS006	MS007	MS008	MS009	MS010	MS011
Sample Location		N. WALL	E. WALL	S. WALL	W. WALL	BOTTOM	CLEAN SOIL
Sample Date		9-8-92	9-8-92	9-8-92	9-8-92	9-8-92	9-9-92
Tank Grave		500 GAS	500 GAS	500 GAS	500 GAS	500 GAS	500 GAS
Parameters	Units	Concentrations					
U.S. EPA Method 8010 (1)	ug/kg	ND	ND	ND	ND	ND	ND
U.S. EPA Method 8020 (1)	ug/kg	ND	ND	ND	ND	ND	ND
TCLP Metals (1)							
Lead	ug/l	ND	ND	ND	ND	ND	ND
Barium	ug/l	NA	NA	NA	NA	NA	0.59
TPH by I.R.	mg/kg	82	39	22	24	51	40
Ignitability	deg F	NA	NA	NA	NA	NA	>160

TABLE 1. SUMMARY OF ANALYTICAL RESULTS (CONT.)
Sample I.D.# Prefix: MYSOSC-

Sample I.D.#		MS012	MS013	MS014	MS015	MS016	MS017
Sample Location		N. WALL	E. WALL	S. WALL	W. WALL	BOTTOM	BOTTOM QA
Sample Date		9-9-92	9-9-92	9-9-92	9-9-92	9-9-92	9-9-92
Tank Grave		7500 HF#2	7500 HF#2	7500 HF#2	7500 HF#2	7500 HF#2	7500 HF#2
Parameters	Units	Concentrations					
U.S. EPA Method 8010 (1)	ug/kg	ND	ND	ND	ND	ND	ND
U.S. EPA Method 8020 (1)	ug/kg	ND	ND	ND	ND	ND	ND
TCLP Metals (1)	ug/l	NA	NA	NA	NA	NA	NA
TPH by I.R.	mg/kg	59	21	25	11	340	310

TABLE 1. SUMMARY OF ANALYTICAL RESULTS (CONT.)
Sample I.D.# Prefix: MYSOSC-

Sample I.D.#		MS018	MS019	MS020	MS021	MS022	MS023
Sample Location		N. WALL	E. WALL	S. WALL	W. WALL	BOTTOM QA	BOTTOM
Sample Date		9-9-92	9-9-92	9-9-92	9-9-92	9-9-92	9-9-92
Tank Grave		10000 HF #2	10000 HF #2	10000 HF #2	10000 HF #2	10000 HF #2	10000 HF #2
Parameters	Units	Concentrations					
U.S. EPA Method 8010 (1)	ug/kg	ND	ND	ND	ND	ND	ND
U.S. EPA Method 8020 (1)	ug/kg	ND	ND	ND	ND	ND	ND
TCLP Metals (1)							
Barium	ug/l	NA	NA	NA	NA	NA	NA
TPH by I.R.	mg/kg	14	ND	55	32	22	55

TABLE 1. SUMMARY OF ANALYTICAL RESULTS (CONT.)
Sample I.D.# Prefix: MYSOSC-

Sample I.D.#		MS024	MS025	MS026	MS027	MS028	MS029
Sample Location		CLEAN SOIL	BOTTOM	W. WALL	N. WALL	E. WALL	S. WALL
Sample Date		9-9-92	9-21-92	9-21-92	9-21-92	9-21-92	9-21-92
Tank Grave		10000 HF#2	7500 HF#2	7500 HF#2	250 HF#2	250 HF#2	250 HF#2
Parameters	Units	Concentrations					
U.S. EPA Method 8010 (1)	ug/kg	ND	NA	NA	NA	NA	NA
U.S. EPA Method 8020 (1)	ug/kg	ND	NA	NA	NA	NA	NA
TCLP Metals (1)							
Barium	ug/l	0.48	NA	NA	NA	NA	NA
TPH by I.R.	mg/kg	11	110	19	16	58	200
Ignitability	deg F	>160	NA	NA	NA	NA	NA

TABLE 1. SUMMARY OF ANALYTICAL RESULTS (CONT.)
Sample I.D.# Prefix: MYSOSC-

Sample I.D.#		MS030	MS031	MS032	MS033	MS034
Sample Location		BOTTOM	CONT. SOIL	BOTTOM	BOTTOM	S. WALL
Sample Date		9-21-92	9-22-92	10-9-92	10-9-92	10-9-92
Tank Grave		250 HF#2	HF#2 TANKS	7500 HF#2	250 HF#2	250 HF#2
Parameters	Units	Concentrations				
U.S. EPA Method 8010 (1)	ug/kg	NA	ND	NA	NA	NA
U.S. EPA Method 8020 (1)	ug/kg	NA	ND	NA	NA	NA
TCLP Metals (1)						
Barium	ug/l	NA	0.67	NA	NA	NA
TPH by I.R.	mg/kg	260	290	50	32	110
Ignitability	deg F	NA	>160	NA	NA	NA

FIGURES

SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

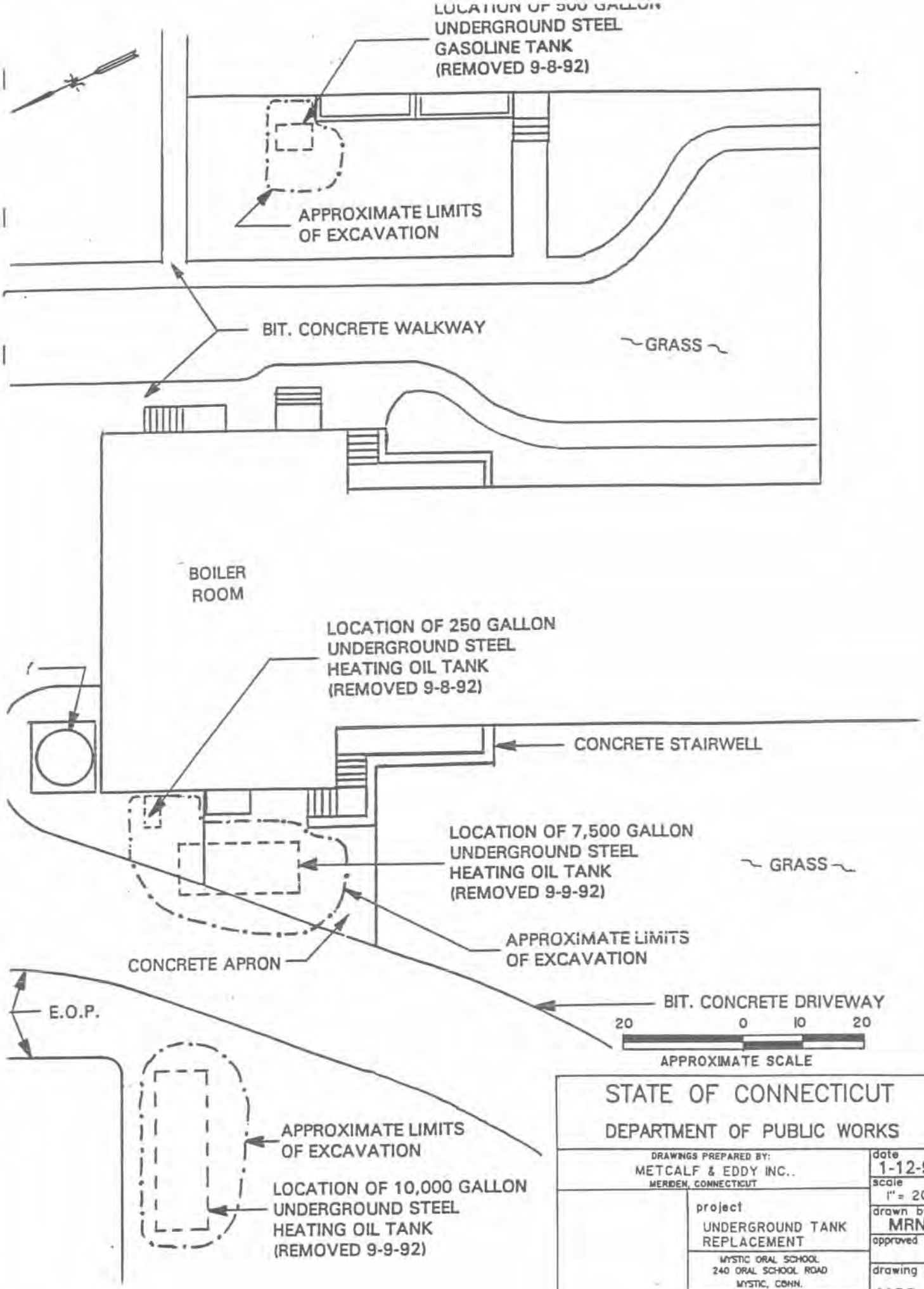
1 .5 0 1 KILOMETER

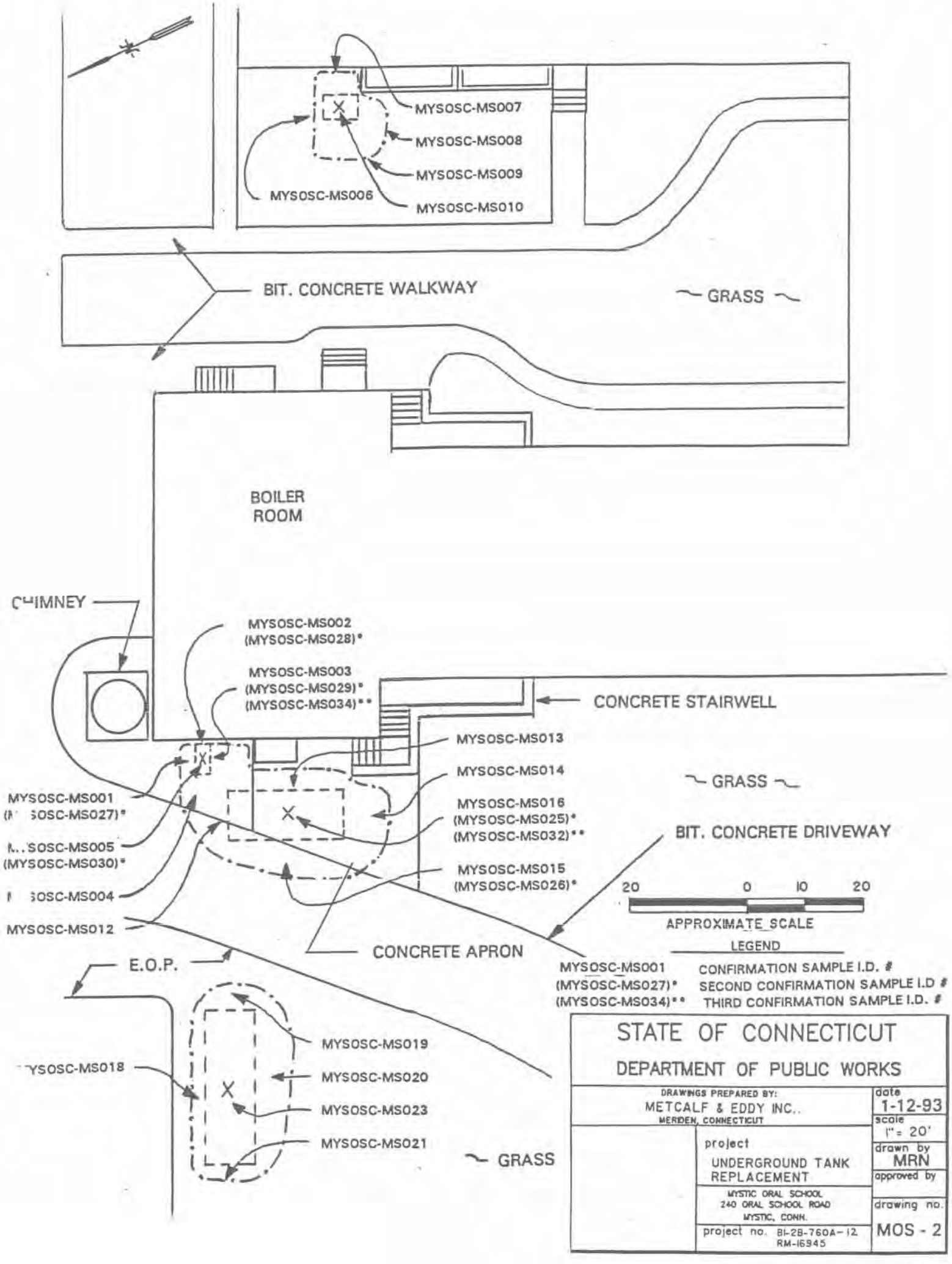
CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

QUADRANGLE LOCATION

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

BI-2A-760-A12


LOCATION OF 500 GALLON
UNDERGROUND STEEL
GASOLINE TANK
(REMOVED 9-8-92)
APPROXIMATE LIMITS
OF EXCAVATION
BIT. CONCRETE WALKWAY
GRASS
BOILER
ROOM
LOCATION OF 250 GALLON
UNDERGROUND STEEL
HEATING OIL TANK
(REMOVED 9-8-92)
CONCRETE STAIRWELL
LOCATION OF 7,500 GALLON
UNDERGROUND STEEL
HEATING OIL TANK
(REMOVED 9-9-92)
GRASS
APPROXIMATE LIMITS
OF EXCAVATION
CONCRETE APRON
E.O.P.
BIT. CONCRETE DRIVEWAY
20 0 10 20
APPROXIMATE SCALE
APPROXIMATE LIMITS
OF EXCAVATION
LOCATION OF 10,000 GALLON
UNDERGROUND STEEL
HEATING OIL TANK
(REMOVED 9-9-92)
STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS
DRAWINGS PREPARED BY:
METCALF & EDDY INC.,
MERIDEN, CONNECTICUT
project
UNDERGROUND TANK
REPLACEMENT
MYSTIC ORAL SCHOOL
240 ORAL SCHOOL ROAD
MYSTIC, CONN.
project no. 81-2B-760A-12
RM-16945
date
1-12-93
scale
1" = 20'
drawn by
MRN
approved by
drawing no.
MOS - 1


MYSOSC-MS007
MYSOSC-MS008
MYSOSC-MS009
MYSOSC-MS006
MYSOSC-MS010
BIT. CONCRETE WALKWAY
GRASS
BOILER ROOM
CHIMNEY
MYSOSC-MS002
(MYSOSC-MS028)*
MYSOSC-MS003
(MYSOSC-MS029)*
(MYSOSC-MS034)**
CONCRETE STAIRWELL
MYSOSC-MS013
MYSOSC-MS014
GRASS
MYSOSC-MS001
(MYSOSC-MS027)*
MYSOSC-MS016
(MYSOSC-MS025)*
(MYSOSC-MS032)**
BIT. CONCRETE DRIVEWAY
MYSOSC-MS005
(MYSOSC-MS030)*
MYSOSC-MS015
(MYSOSC-MS026)*
MYSOSC-MS004
MYSOSC-MS012
20 0 10 20
APPROXIMATE SCALE
CONCRETE APRON
E.O.P.
LEGEND
MYSOSC-MS001 CONFIRMATION SAMPLE I.D. #
(MYSOSC-MS027)* SECOND CONFIRMATION SAMPLE I.D #
(MYSOSC-MS034)** THIRD CONFIRMATION SAMPLE I.D. #
MYSOSC-MS019
MYSOSC-MS018
MYSOSC-MS020
MYSOSC-MS023
MYSOSC-MS021
GRASS
STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS
DRAWINGS PREPARED BY:
METCALF & EDDY INC.,
MERIDEN, CONNECTICUT
date 1-12-93
scale 1" = 20'
drawn by MRN
approved by
project
UNDERGROUND TANK REPLACEMENT
MYSTIC ORAL SCHOOL
240 ORAL SCHOOL ROAD
MYSTIC, CONN.
project no. BI-28-760A-12
RM-16945
drawing no.
MOS - 2

UNDERGROUND STORAGE FACILITY NOTIFICATION

2. PG. 1 of 1

1a. [XX] FIRST NOTIFICATION OR b. [ ] SUBSEQUENT NOTIFICATION (If checked, enter No.)

SITE I.D. 57-11286

STATE OF CONNECTICUT
Department of Environmental Protection
UNDERGROUND STORAGE FACILITIES PROGRAM
HAZARDOUS MATERIALS MANAGEMENT UNIT
165 Capitol Avenue, Hartford, CT 06106

TEL 566-4630

PLEASE TYPE. ALL THREE COPIES MUST BE LEGIBLE!
Refer to INSTRUCTIONS FOR FILING NOTIFICATION before completing form.

EPHM-0 REV. 3/90

JUL 17 1995
EXEMPT

3. FOR STATE AGENCY USE ONLY
A. SITE I.D.
B. DATE RCVD BY D.E.P.
C. DATE ENTERED 7/13/95
D. GRID COORDINATES X ____ Y ____
E. DOES FACILITY MEET NEW REQUIREMENTS? [ ] YES [ ] NO

SECTION A

4. LOCATION OF FACILITY	SITE NAME: Mystic Oral School	NO. AND STREET: 240 Oral School Road	NEAREST INTERSECTING STREET: Cow Hill Road	CITY OR TOWN: Mystic	STATE: CT; 5. LATITUDE: 41° 22'; LONGITUDE: 71° 58'
6. BUSINESS NAME AND MAILING ADDRESS	NAME: Mystic Oral School	NO. AND STREET: 240 Oral School Road		CITY OR TOWN: Mystic	STATE: CT; ZIP CODE: 06355; TELEPHONE: (203) 536-4221
7. FACILITY OWNER	NAME: State of Connecticut Department of Public Works	NO. AND STREET: 165 Capitol Avenue		CITY OR TOWN: Hartford	STATE: CT; ZIP CODE: 06106; TELEPHONE: (203) 566-5457
8. TYPE OF OWNER	[ ] PRIVATE [X] STATE [ ] MUNICIPAL [ ] FEDERAL (G.S.A. No. ____)				
9. OPERATOR/CONTACT PERSON	NAME: Mr. Tim Desroches	NO. AND STREET: 240 Oral School Road		CITY OR TOWN: Mystic	STATE: CT; ZIP CODE: 06355; TELEPHONE: (203) 536-4221

SECTION B

10. TANK ID	11a. DATE OF INSTALLATION (Mo./Yr.)	11b. LIFE EXPECTANCY (# of years)	12a. TOTAL CAPACITY (Gals.)	12 b. STATUS: IN USE	ABANDONED IN PLACE	EST. QUANTITY LEFT STORED (if any). (Gals.)	REMOVED	DATE TANK LAST USED (Mo./Yr.)	13. TYPE OF CONTENTS: OIL/PETROLEUM PRODUCT	CHEMICAL LIQUID	14. CONTENTS- CHEMICAL NAME OF PRINCIPAL SUBSTANCE (not trade name.) (Enter C.A.S. No., if known)	15. CONSTRUCTION MATERIALS: STEEL	FIBERGLASS REINFORCED PLASTIC	OTHER (Specify from list A)	16. PROTECTION a. INTERNAL: LINED	UNLINED	CATHODIC PROTECTION	b. EXTERNAL: COATED/WRAPPED	CATHODIC PROTECTION	OTHER (Specify from list B)	17. INTEGRAL PIPING SYSTEM a. CONSTRUCTION MATERIAL (see list A)	b. PROTECTION (see list B)	c. DATE OF INSTALLATION OR REPLACEMENT (Mo./Yr.)	18. MONITORING SYSTEM (Specify type from list B)	19. FAILURE DETERMINATION CONDUCTED? (If "YES", enter DATE and attach results). (If "NO", enter "NO")
Example	5/75	30	5000	X					X		Heating fuel #2		X			X				H	3	H	5/75	U	NO
Example	7/60	-	8000				X	8/78		X	1, 1, 1, - Trichloroethane CAS #79016	X				X				E	7	W	7/60	U	—
A1?	1/70	15	250			0	X	9/92	X		Heating Fuel #2	X				X				H	7	H	1/70	U	No
A2?	1/60	15	7500			0	X	9/92	X		Heating Fuel #2	X				X				H	7	H	1/60	U	No
A3?	1/75	15	10,000			0	X	9/92	X		Heating Fuel #2	X				X				H	7	H	1/75	U	No
B4?	1/30	15	500			0	X	9/92	X		Gasoline	X				X				H	10	H	1/30	U	No
A2R1	1/93	30	10,000	X					X		Heating Fuel #2		X			X				A,D	3	F	1/93	Q	Yes
A3R1	1/93	30	10,000	X					X		Heating Fuel #2		X			X				A,D	3	F	1/93	Q	Yes

SECTION C

20. HAVE YOU ATTACHED SKETCH OF TANKS AND LOCATION? [X] YES

21. COMMENTS: Tank ID B4? - Item 17a - Copper Piping
Tanks ID A2R1, A3R1- Cathodic protection on galvanized iron fill riser pipes

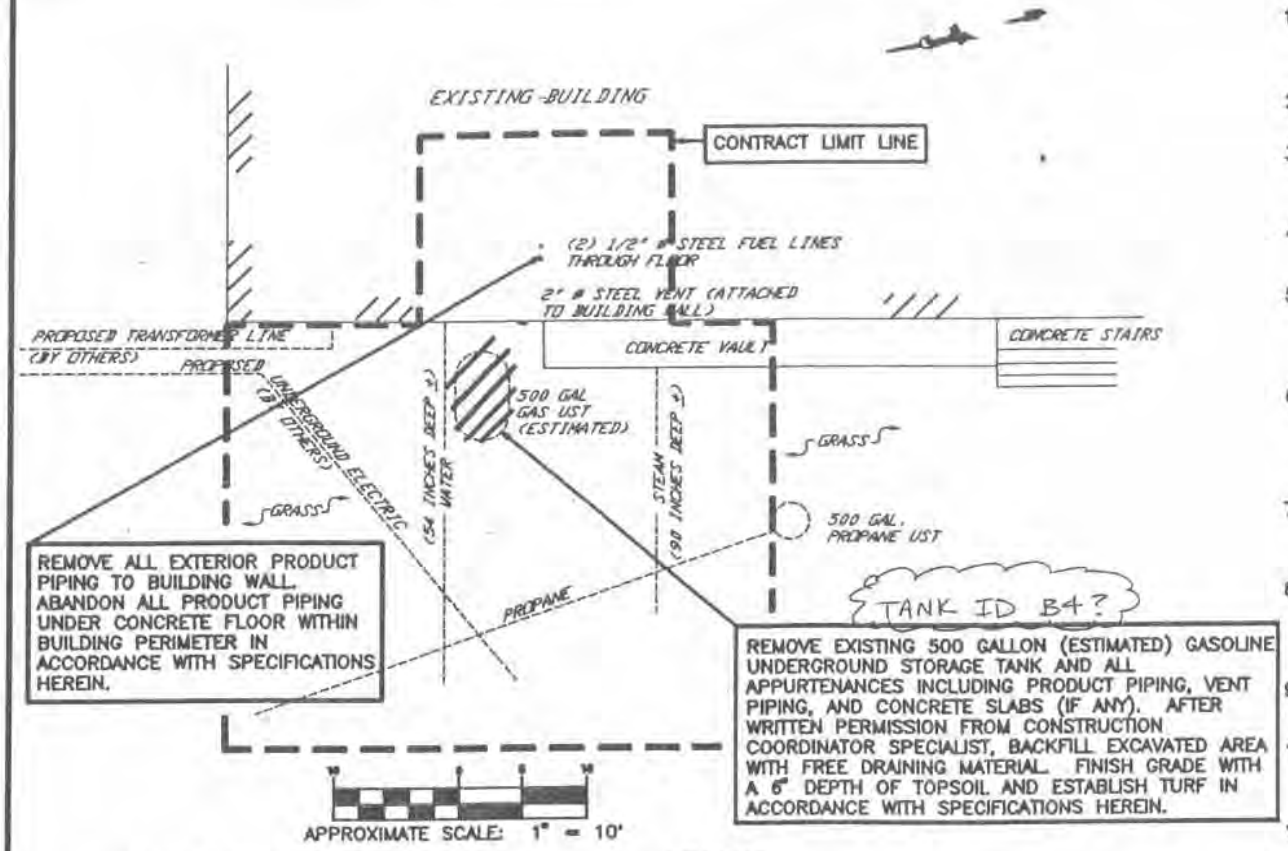
SECTION D

22. CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. **Penalties:** any owner who knowingly fails to notify shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

22a. SIGNATURE: X George Clarke Niles
22c. NAME (Type or Print): GEORGE CLARKE NILES

22b. DATE SIGNED: 2/8/94
22d. OFFICIAL TITLE (of owner or authorized representative): Asst. Administrator, Fac. Mgt.

COPY 1 · SEND TO DEP: 165 CAPITOL AVE. HARTFORD, CT 06106



CIVIL NOTES

1. PIPE SIZE AND LOCATION OF BURIED PIPES & UTILITIES ARE FROM THE BEST INFORMATION AVAILABLE. EXACT SIZE AND LOCATION ARE NOT GUARANTEED.
2. ALL DISTURBED PAVED AREAS SHALL BE RESTORED WITH NEW BITUMINOUS CONCRETE PAVEMENT, SEE MISCELLANEOUS DETAIL SHEET.
3. ALL DISTURBED LANDSCAPED AREAS SHALL RECEIVE A 6 INCH DEPTH OF TOPSOIL AND SHALL BE RESTORED WITH TURF ESTABLISHMENT IN ACCORDANCE WITH SPECIFICATION SECTION 02210.
4. A SEDIMENTATION CONTROL SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH SPECIFICATION SECTION 01580.
5. ALL NEW UNDERGROUND PIPES & CONDUITS ARE SHOWN DIAGRAMMATICALLY. EXACT LAYOUT SHALL BE SUCH AS TO MINIMIZE PAVEMENT REPLACEMENT AND SHALL BE AGREED UPON WITH THE ENGINEER IN THE FIELD.
6. ALL JOINTS BETWEEN EXISTING AND PROPOSED BITUMINOUS PAVEMENT SHALL BE SEALED IN ACCORDANCE WITH SECTION 4.06.03, SUB-SECTION II, PARAGRAPH B, FORM 814 – STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION.
7. CONTRACTORS SHALL CONTACT "CALL BEFORE YOU DIG" (1-800-922-4455) FOR UNDERGROUND UTILITIES INFORMATION A MINIMUM OF 72 HOURS PRIOR TO START OF CONSTRUCTION.
8. CONTRACTOR SHALL PROVIDE SHEETING, SHORING OR BRACING AS NECESSARY DURING EXCAVATION OF TANK TO PROTECT EXISTING STRUCTURES THAT ARE TO REMAIN. SEE SPECIFICATION. SECTION 02210.
9. TANK REMOVAL INCLUDES REMOVAL AND DISPOSAL OF ANY REMAINING CONTENTS (APPROXIMATELY 12" DEPTH OF PRODUCT).
10. AFTER WRITTEN PERMISSION FROM CONSTRUCTION COORDINATOR/ SPECIALIST, CONTRACTOR SHALL BACKFILL THE TANK AND PIPING EXCAVATIONS WITH FREE DRAINING MATERIAL.
11. IF ANY PETROLEUM CONTAMINATED SOILS ARE ENCOUNTERED DURING TANK AND PIPING REMOVAL, CONTRACTOR SHALL REMOVE AND DISPOSE OF THESE SOILS IN ACCORDANCE WITH SPECIFICATIONS HEREIN.

ABBREVIATIONS

BCLC	BITUMINOUS CONCRETE LIP CURB
BM	BENCH MARK
CB	CATCH BASIN
CMP	CORRUGATED METAL PIPE
EP	EDGE OF PAVEMENT
FRP	FIBERGLASS REINFORCED PLASTIC
LP	LIGHT POLE
MH	MANHOLE
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
RSC	RIGID STEEL CONDUIT
UP	UTILITY POLE
NTS	NOT TO SCALE
CC	CONCRETE CURB

LEGEND

	EDGE OF BUILDING
	CONTRACT LIMIT LINE
	PROPOSED SILT FENCE
—O/H-E—	EXISTING OVERHEAD ELECTRIC
—O/H-P—	PROPOSED OVERHEAD ELECTRIC
—U/G E—	EXISTING UNDERGROUND ELECTRIC
—U/G P—	PROPOSED UNDERGROUND ELECTRICAL CONDUIT
	DEMOLITION ITEM
	EXISTING LIGHT POLE
	PROPOSED LIGHT POLE
—WATER—	EXISTING WATER LINE
—STEAM—	EXISTING STEAMLINE

drawing title
UNDERGROUND TANK SITE PLAN

REVISIONS

mark	date	description
	2-94	RECORD DRAWING

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC WORKS

DRAWINGS PREPARED BY
METCALF & EDDY, INC.
MERIDEN CONNECTICUT

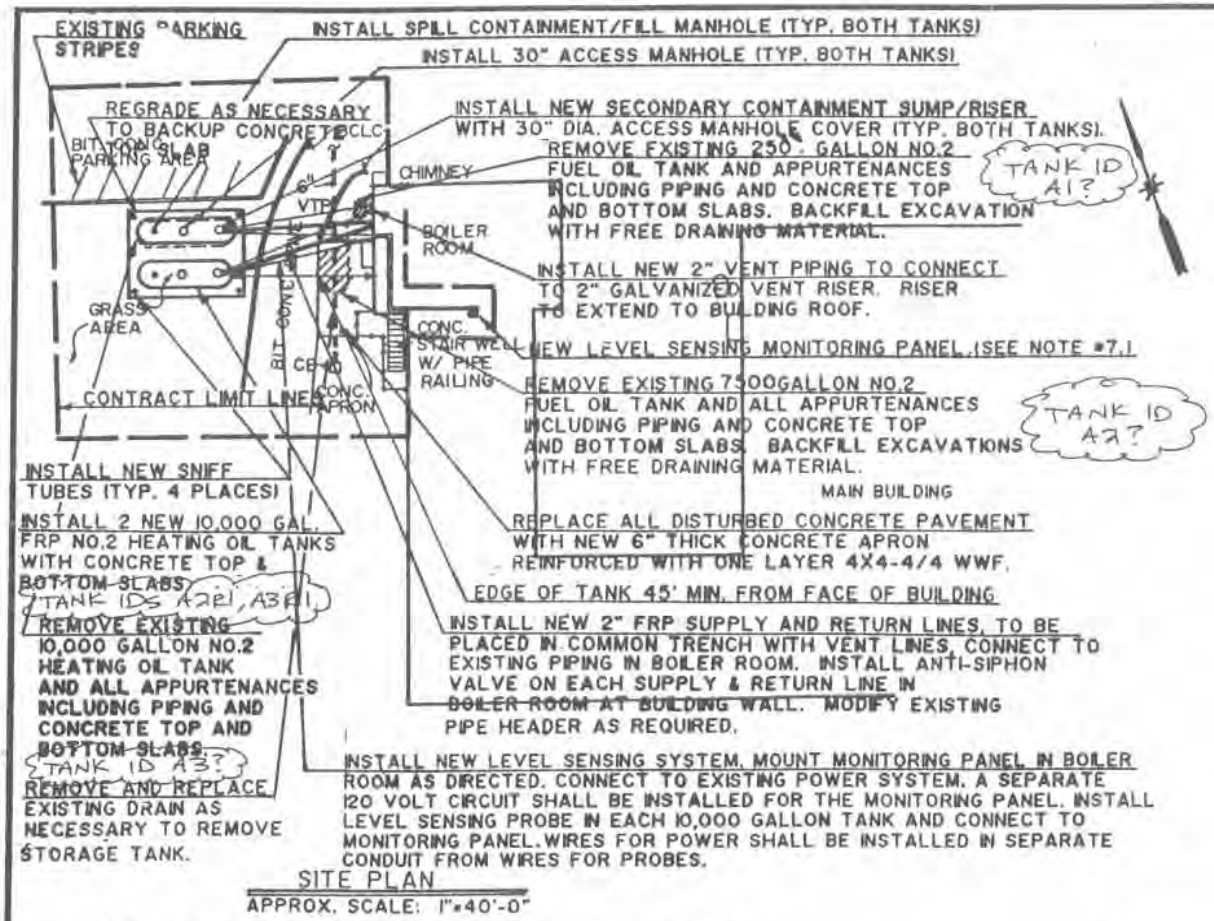
STATE OF CONNECTICUT WILLIAM A. BAKER, IV No. 17001 LICENSED PROFESSIONAL ENGINEER

project
UNDERGROUND TANK REPLACEMENT

MYSTIC ORAL SCHOOL
240 ORAL SCHOOL ROAD
MYSTIC, CONN.

project no. 81-28-760 A12

date 7-28-92
scale 1"=10'
drawn by J.D.W.
approved by W.A.B.
drawing no. C-2A



SITE PLAN

APPROX. SCALE: 1"=40'-0"

CIVIL NOTES

1. PIPE SIZE AND LOCATION OF BURIED PIPES AND UTILITIES ARE FROM THE BEST INFORMATION AVAILABLE. EXACT SIZE AND LOCATION ARE NOT GUARANTEED.
2. ALL DISTURBED PAVED AREAS SHALL BE RESTORED IN KIND WITH EITHER NEW BITUMINOUS CONCRETE PAVEMENT OR REINFORCED CONCRETE PAVEMENT. SEE DETAILS SHEET C-4.
3. ALL NEW UNDERGROUND PIPES & CONDUITS ARE SHOWN DIAGRAMMATICALLY. EXACT LAYOUT SHALL BE SUCH AS TO MINIMIZE PAVEMENT REPLACEMENT AND SHALL BE AGREED UPON BY THE ENGINEER IN THE FIELD.
4. A SEDIMENTATION CONTROL SYSTEM SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH SPECIFICATION SECTION 01560.
5. ALL DISTURBED LANDSCAPED AREAS SHALL PECEIVE A 6 INCH DEPTH OF TOPSOIL AND SHALL BE RESTORED WITH TURF ESTABLISHMENT IN ACCORDANCE WITH SPECIFICATION SECTION 02210.
6. ALL JOINTS BETWEEN EXISTING AND PROPOSED BITUMINOUS PAVEMENT SHALL BE SEALED IN ACCORDANCE WITH SECTION 4.06.03, SUB-SECTION II, PARAGRAPH B, FORM 814 - STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION.
7. CONDUIT SIZE SHALL BE MINIMUM 3/4" ABOVE GRADE AND 1 1/4" BELOW GRADE. CONTROL/SIGNAL WIRE SHALL BE AS RECOMMENDED BY MANUFACTURER. EACH DEVICE SHALL BE WIRED INDEPENDENTLY WITH A SPARE WIRE RUN FOR EACH DEVICE. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH SPECIFICATION SECTIONS 16010 AND 16050.

APPROXIMATE SCALE IN FEET

40 20 0 20 40 80

ABBREVIATIONS

BCLC	BITUMINOUS CONCRETE LIP CURB
BM	BENCH MARK
CB	CATCH BASIN
CC	CONCRETE CURB
CMP	CORRUGATED METAL PIPE
EP	EDGE OF PAVEMENT
INV	INVERT
LP	LIGHT POLE
MH	MANHOLE
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
RSC	RIGID STEEL CONDUIT
UP	UTILITY POLE
NTS	NOT TO SCALE

LEGEND

	EXISTING TREE LINE
	CONTRACT LIMIT LINE
O/H	EXISTING OVERHEAD ELECTRIC
U/G E	EXISTING UNDERGROUND ELECTRIC
U/G E	PROPOSED UNDERGROUND ELECTRICAL CONDUIT
	DEMOLITION ITEM
	EXISTING LIGHT POLE
	EXISTING FENCE
	EXISTING HYDRANT

△ FOR FINAL AS-BUILT INFORMATION REFER TO DRAWING "RECORD DRAWING, TANK REPLACEMENT, MYSTIC ORAL SCHOOL, PREPARED FOR SITE REMEDIATION SERVICES, INC, SCALE 1"=10', DATE 5-18-9, REVISED 9-1-93, BY MEGSON & HEAGLE, GLASTONBURY, CT"

drawing title: UNDERGROUND TANK SITE PLAN

REVISIONS

mark	date	description
△	2-94	RECORD DRAWING

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC WORKS

DRAWINGS PREPARED BY: METCALF & EDDY INC., MERIDEN, CONNECTICUT

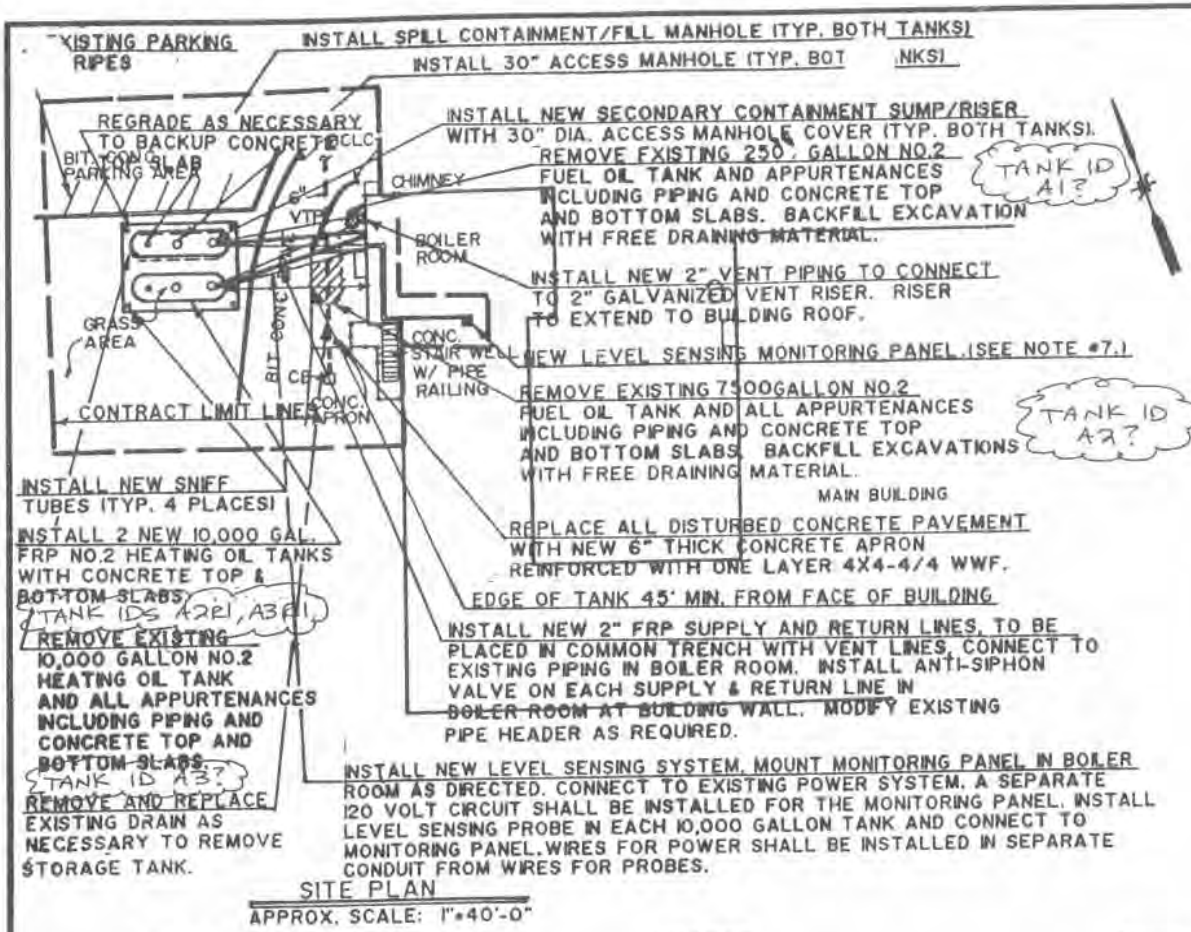
STATE OF CONNECTICUT JAMES D. WITHERELL # 16602 LICENSED PROFESSIONAL ENGINEER

project: UNDERGROUND TANK REPLACEMENT

MYSTIC ORAL SCHOOL
240 ORAL SCHOOL ROAD
MYSTIC, CONN.

project no. 81-28-760 A-12

date: 5-30-91
scale: 1"=40'
drawn by: L.F.S.
approved by: J.D.W.
drawing no. C-1



SITE PLAN

APPROX. SCALE: 1"=40'-0"

CIVIL NOTES

1. PIPE SIZE AND LOCATION OF BURIED PIPES AND UTILITIES ARE FROM THE BEST INFORMATION AVAILABLE. EXACT SIZE AND LOCATION ARE NOT GUARANTEED.
2. ALL DISTURBED PAVED AREAS SHALL BE RESTORED IN KIND WITH EITHER NEW BITUMINOUS CONCRETE PAVEMENT OR REINFORCED CONCRETE PAVEMENT. SEE DETAILS SHEET C-4.
3. ALL NEW UNDERGROUND PIPES & CONDUITS ARE SHOWN DIAGRAMMATICALLY. EXACT LAYOUT SHALL BE SUCH AS TO MINIMIZE PAVEMENT REPLACEMENT AND SHALL BE AGREED UPON BY THE ENGINEER IN THE FIELD.
4. A SEDIMENTATION CONTROL SYSTEM SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH SPECIFICATION SECTION 01560.
5. ALL DISTURBED LANDSCAPED AREAS SHALL RECEIVE A 6 INCH DEPTH OF TOPSOIL AND SHALL BE RESTORED WITH TURF ESTABLISHMENT IN ACCORDANCE WITH SPECIFICATION SECTION 02210.
6. ALL JOINTS BETWEEN EXISTING AND PROPOSED BITUMINOUS PAVEMENT SHALL BE SEALED IN ACCORDANCE WITH SECTION 4.06.03, SUB-SECTION II, PARAGRAPH B, FORM 814 - STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION.
7. CONDUIT SIZE SHALL BE MINIMUM 3/4" ABOVE GRADE AN BELOW GRADE. CONTROL/SIGNAL WIRE SHALL BE AS RE MENDED BY MANUFACTURER. EACH DEVICE SHALL BE WI INDEPENDENTLY WITH A SPARE WIRE RUN FOR EACH DEV THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITI FICATION SECTIONS 16010 AND 16050.

APPROXIMATE SCALE IN FEET

40 20 0 20 40 80

ABBREVIATIONS

BCLC	BITUMINOUS CONCRETE LIP CURB
BM	BENCH MARK
CB	CATCH BASIN
CC	CONCRETE CURB
CMP	CORRUGATED METAL PIPE
EP	EDGE OF PAVEMENT
INV	INVERT
LP	LIGHT POLE
MH	MANHOLE
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
RSC	RIGID STEEL CONDUIT
UP	UTILITY POLE
NTS	NOT TO SCALE

LEGEND

	EXISTING TREE LINE
	CONTRACT LIMIT LINE
O/H	EXISTING OVERHEAD ELECTRIC
U/G E	EXISTING UNDERGROUND ELECTRIC
U/G P	PROPOSED UNDERGROUND ELECTRICAL CONDUIT
	DEMOLITION ITEM
	EXISTING LIGHT POLE
	EXISTING FENCE
	EXISTING HYDRANT

△ FOR FINAL AS-BUILT INFORMATION REFER TO DRAWING "RECORD DRAWING, TANK REPLACEMENT, MYSTIC ORAL SCHOOL, PREPARED FOR SITE REMEDIATION SERVICES, INC, SCALE 1"=10', DATE 5-18-9, REVISED 9-1-93, BY MEGSON & HEAGLE, GLASTONBURY, CT"

drawing title: UNDERGROUND TANK SITE PLAN

REVISIONS

mark	date	description
△	2-94	RECORD DRAWING

STATE OF CONNECTICU

DEPARTMENT OF PUBLIC WORI

DRAWINGS PREPARED BY:
METCALF & EDDY INC.
MERIDEN, CONNECTICUT

STATE OF CONNECTICUT JAMES D. WITHERS # 16602 LICENSED PROFESSIONAL ENGINEER

project: UNDERGROUND TANK REPLACEMENT

MYSTIC ORAL SCHOOL
240 ORAL SCHOOL ROAD
MYSTIC, CONN.

project no. 81-28-760
A-12

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC WORKS

UNDERGROUND STORAGE TANK PROGRAM

39-11786

T. R. Anson
Commissioner

May 29, 1996

RECEIVED

MAY 30 1996

DEP WASTE MANAGEMENT BUREAU
UNDERGROUND STORAGE TANK
ENFORCEMENT PROGRAM

G. Scott Deshefy
UST Enforcement
79 Elm Street
Hartford, CT 06106-5127

Re: Statewide Underground Tank Program
DPW Project No. BI-2B-760-B169 (A164)
Mystic Oral School

Subject: Tank Removal Report

Dear Scott:

Enclosed please find the report of activities at the subject site, prepared by Fuss & O'Neill, Inc. We have reviewed this report and concur with its recommendations.

Contaminated levels were found to be below prescribed action levels. Therefore, we are considering this closure of the subject site.

If you have any questions, or wish to discuss this matter further, feel free to contact me at 566-6322.

Sincerely,

Joseph V. Cassidy, P.E.
Project Manager

JVC:rm (60)
Attachment

cc: Fuss & O'Neill w/o
Closure File w/a

Room 462 - 4th Floor
Phone: 860-566-6322

146 Hartford Road, Manchester, CT 06040-5921
TEL 860 646-2469 FAX 860 643-6313

1200 Converse Street, Longmeadow, MA 01106-1721
TEL 413 567-9886 FAX 413 567-8936

Providence, RI TEL 401 828-3510

Fuss & O'Neill Inc. *Consulting Engineers*

Solid Waste Management
Industrial/Hazardous Waste Management
Stream Impact Analysis
Water Resources Engineering
Transportation Engineering
Environmental Field Services
Environmental Engineering
Wastewater Management
Site Planning/Engineering
Hydrogeology
Park Design
Surveying

May 31, 1996

Mr. Joseph V. Cassidy, P.E.
Project Coordinator
State of Connecticut
Department of Public Works
State Office Building Room 462
165 Capitol Avenue
Hartford, CT 06106

RE: Statewide Underground Storage Tank Program
DPW - Project No. BI-2B-760-B169 (Site A164)
Mystic Oral School
Mystic, Connecticut

Dear Mr. Cassidy:

Enclosed please find a summary of our findings and recommendations associated with the removal of one 10,000-gallon No. 2 fuel oil tank at the above referenced site. The removal was initiated by Site Remedation Services Inc. on April 1,1996 as part of the Connecticut DPW Statewide Underground Storage Tank Program.

Please note that Fuss & O'Neill, Inc. has been unable to obtain any disposal documentation from the Contractor. DPW should follow-up on the disposal documentation to assure that proper disposal procedures are being followed.

Should you have any questions or comments, please do not hesitate to call.

Sincerely,

for JPL

James P. Lardie
Project Hydrogeologist

John B. Hankins, CPG
Associate

Enclosure

91272\M9\REMoval.WP

bc: Brad Freeman - (w/enclosures)
Phil Moreschi (w/some enclosures)
91272 M9 - Mystic Oral School (w/enclosures)

CONNECTICUT DEPARTMENT OF PUBLIC WORKS
STATEWIDE UNDERGROUND STORAGE TANK PROGRAM
CONN DPW PROJECT NO. BI-2B-760-B169
TANK REMOVAL REPORT

SITE NAME: MYSTIC ORAL SCHOOL **TANK ID: E**

BACKGROUND

SITE INFORMATION

Site Name: Mystic Oral School

Site Address: 240 Oral School Road

Site Contacts: Tim Desroches Phone: 860-536-4221

AGENCY

Agency Name: Bureau of Public Works Phone: 860-566-7517
Agency Contact: George Niles

GW Classification: GA

CONTRACTORS

GENERAL CONTRACTOR - Site Remediation Services, Inc.

TANK DISPOSAL

Hauler: Site Remediation Services Phone: 860-623-8179

Disposal Site: Phone:

Address:

Disposal Certificate Attached: Yes ___ No X

LIQUID DISPOSAL

Hauler: Phone:

Disposal Site: Phone:

Address:

Quantity: gallons Date: Manifest Attached: __ Yes X No

SOIL DISPOSAL

Hauler: NA Phone:

Disposal Site: NA Phone:

Address:

Quantity: tons Date: Manifest Attached: __ Yes X No

Disposal Documentation Attached.

Comments: No contaminated soil requiring off site disposal was encountered.

CONNECTICUT DEPARTMENT OF PUBLIC WORKS
STATEWIDE UNDERGROUND STORAGE TANK PROGRAM
CONN DPW PROJECT NO. BI-2B-760-B169
TANK REMOVAL REPORT

SITE NAME: MYSTIC ORAL SCHOOL TANK ID: E

TANK DATA

TANK DESCRIPTION

Tank ID: E Date Removed: 4/1/96

Dimensions: 8' (dia.) x 27' (length) Capacity: 10,000 gallons

Tank Material: X Steel ___ Fiberglass

X Good (not visibly deteriorated)
___ Fair (some corrosion, no obvious signs of tank failure)
___ Poor (visible holes, obvious failure)
___ Tank Not Inspected

Tank Used For: ___ Gasoline ___ Diesel _ Waste Oil X #2 Oil ___ #4 Oil ___ #6 Oil

FIELD OBSERVATIONS

EXCAVATION DETAILS

Soil Type: Light brown and grey sand

Evidence of Bedrock: Yes X No ___ Depth ≈13'

Groundwater Present: Yes ___ No X Depth

Structural or Removal Limitations: None

Comments:

Site Sketch Attached: Yes X No ___

SAMPLING DATA

FINAL SOIL SAMPLING (Sample locations indicated on site sketch)

Analytical Methods: X 8010/8020 X 418.1 ___ SPLP Lead ___ SPLP RCRA 8 ___ PCBs

Laboratory: Contest and F&O Mobile Lab
Date Collected: 4/1/96,4/2/96, and 4/19/96

GROUNDWATER SAMPLING

Analytical Methods: ___ 8010/8020 ___ 418.1 ___ Dissolved Lead ___ SPLP RCRA 8 ___ PCBs

Laboratory:
Date Collected: No Sample

Analytical Data for All Samples Attached: Yes X No ___

CONNECTICUT DEPARTMENT OF PUBLIC WORKS
STATEWIDE UNDERGROUND STORAGE TANK PROGRAM
CONN DPW PROJECT NO. BI-2B-760-B169
TANK REMOVAL REPORT

SITE NAME: MYSTIC ORAL SCHOOL **TANK ID: E**

CONCLUSIONS (check all that apply)

TANK ID # E

Soil

X Initial soil sample results indicate all contaminant concentrations are below action level

____ Initial soil sample results or field detection indicate contamination above action levels, but additional soil was removed and final soil samples indicate all contaminant concentrations are below action levels.

____ Soils contamination persists above action level because of the following:

- ____ Physical limitations (i.e. utilities, structures, etc., see sketch)
- ____ Soil contamination extends into the saturated zone
- ____ Contamination is extensive and other remedial options will be evaluated.

Groundwater

X Groundwater not evaluated.

____ Groundwater analysis indicate contaminant concentrations below action levels.

____ Groundwater analysis indicate contaminant concentrations in excess of regulatory action levels.

RECOMMENDATIONS

X No further investigation or remediation.

____ Determine potential receptors.

____ Install well(s) and monitor groundwater quality.

____ Investigate nature and extent of contamination.

____ Initiate an emergency remediation program.

Comments: A 10,000 gallon fiberglass tank was installed in the tank grave. Stockpiles of soil below the DEP action limit remain on site. Bedrock was removed on the west end of the tank grave.

Attachments

Prepared by:

James P. Lardie
Project Hydrogeologist

Reviewed by:

John B. Hankins
Associate

TABLE 1
SOIL SAMPLE RESULTS
STATEWIDE UNDERGROUND TANK PROGRAM
10,000-GALLON NO. 2 FUEL OIL TANK E
MYSTIC ORAL SCHOOL
DPW PROJECT NO. BI-2B-760-B169

Compound		East 342960402-04	North -05	South -06	West -07	Bottom -08	Stockpile -09	Stockpile -10	Stockpile -11	Vent Trench 342960419-06	Supply Trench -07
Date		4/1/96	4/1/96	4/1/96	4/2/96	4/2/96	4/2/96	4/2/96	4/2/96	5/19/96	4/19/96
EPA Method 8010/8020		Only VOCs that were detected are listed.									
Toluene	ug/kg	3.0	8.6	ND	3.2	ND	ND	ND	ND	ND	ND
TPH - (Contest)	mg/kg	ND	BDL	ND	35.4	26.9	43.3	42.6	34.3	22.1	BDL
TPH - Petroflagg (F&O)	mg/kg	13	92	25	41	48	13	36	14	229	22

ND - Not Detected
NA - Not Analyzed
BDL - Below Detection Limit

MYSTIC ORAL SCHOOL

SOIL SAMPLE LOCATIONS

TANK E

FUSS & O'NEILL
MOBILE LABORATORY
ANALYSIS REPORT

PROJECT #: 91-272 M9
CLIENT: DPW - Mystic Oral School
SAMPLE I.D.: 342960401-04
MATRIX: SOIL

DATE RECEIVED: 04/01/96
DATE ANALYZED: 04/01/96
DATE REPORTED: 04/08/96

ANALYTE	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)	DATA QUALIFIER	COMMENTS/ CONFIRMATION
Total Petroleum Hydrocarbons	13	1		Tank E - East

ANALYSIS BY METHOD: PetroFLAGG™
INSTRUMENT: Dexsil Nephelometer

SAMPLE SIZE: 10 grams
ANALYST/REVIEWER: BCF

LABORATORY DIRECTOR
Kevin W. Miller

Note: PetroFLAGG™ is a screening method for determining Total Petroleum Hydrocarbons (TPH) in soil. In recent trials by the Dexsil Corporation the PetroFLAGG™ kit has provided rapid screening data that correlates well with U.S. EPA Methods 418.1 and 8015B. The Dexsil Corporation has made application to the U.S. EPA for approval of the screening method. However, until the method has been approved by the U.S. EPA or the CTDEP, results from this method should not be used to satisfy formal regulatory requirements.

FUSS & O'NEILL
MOBILE LABORATORY
ANALYSIS REPORT

PROJECT #: 91-272 M9
CLIENT: DPW - Mystic Oral School
SAMPLE I.D.: 342960401-05
MATRIX: SOIL

DATE RECEIVED: 04/01/96
DATE ANALYZED: 04/01/96
DATE REPORTED: 04/08/96

ANALYTE	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)	DATA QUALIFIER	COMMENTS/ CONFIRMATION
Total Petroleum Hydrocarbons	92	1		Tank E - North

ANALYSIS BY METHOD: PetroFLAGG™
INSTRUMENT: Dexsil Nephelometer

SAMPLE SIZE: 10 grams
ANALYST/REVIEWER: BCF

LABORATORY DIRECTOR
Kevin W. Miller

Note: PetroFLAGG™ is a screening method for determining Total Petroleum Hydrocarbons (TPH) in soil. In recent trials by the Dexsil Corporation the PetroFLAGG™ kit has provided rapid screening data that correlates well with U.S. EPA Methods 418.1 and 8015B. The Dexsil Corporation has made application to the U.S. EPA for approval of the screening method. However, until the method has been approved by the U.S. EPA or the CTDEP, results from this method should not be used to satisfy formal regulatory requirements.

FUSS & O'NEILL
MOBILE LABORATORY
ANALYSIS REPORT

PROJECT #: 91-272 M9
CLIENT: DPW - Mystic Oral School
SAMPLE I.D.: 342960401-06
MATRIX: SOIL

DATE RECEIVED: 04/01/96
DATE ANALYZED: 04/01/96
DATE REPORTED: 04/08/96

ANALYTE	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)	DATA QUALIFIER	COMMENTS/ CONFIRMATION
Total Petroleum Hydrocarbons	25	1		Tank E - South

ANALYSIS BY METHOD: PetroFLAGG™
INSTRUMENT: Dexsil Nephelometer

SAMPLE SIZE: 10 grams
ANALYST/REVIEWER: BCF

LABORATORY DIRECTOR
Kevin W. Miller

Note: PetroFLAGG™ is a screening method for determining Total Petroleum Hydrocarbons (TPH) in soil. In recent trials by the Dexsil Corporation the PetroFLAGG™ kit has provided rapid screening data that correlates well with U.S. EPA Methods 418.1 and 8015B. The Dexsil Corporation has made application to the U.S. EPA for approval of the screening method. However, until the method has been approved by the U.S. EPA or the CTDEP, results from this method should not be used to satisfy formal regulatory requirements.

FUSS & O'NEILL
MOBILE LABORATORY
ANALYSIS REPORT

PROJECT #: 91-272 M9
CLIENT: DPW - Mystic Oral School
SAMPLE I.D.: 342960402-07
MATRIX: SOIL

DATE RECEIVED: 04/02/96
DATE ANALYZED: 04/02/96
DATE REPORTED: 04/08/96

ANALYTE	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)	DATA QUALIFIER	COMMENTS/ CONFIRMATION
Total Petroleum Hydrocarbons	41	1		Tank E - West

ANALYSIS BY METHOD: PetroFLAGG™
INSTRUMENT: Dexsil Nephelometer

SAMPLE SIZE: 10 grams
ANALYST/REVIEWER: BCF

LABORATORY DIRECTOR
Kevin W. Miller

Note: PetroFLAGG™ is a screening method for determining Total Petroleum Hydrocarbons (TPH) in soil. In recent trials by the Dexsil Corporation the PetroFLAGG™ kit has provided rapid screening data that correlates well with U.S. EPA Methods 418.1 and 8015B. The Dexsil Corporation has made application to the U.S. EPA for approval of the screening method. However, until the method has been approved by the U.S. EPA or the CTDEP, results from this method should not be used to satisfy formal regulatory requirements.

FUSS & O'NEILL
MOBILE LABORATORY
ANALYSIS REPORT

PROJECT #: 91-272 M9
CLIENT: DPW - Mystic Oral School
SAMPLE I.D.: 342960402-08
MATRIX: SOIL

DATE RECEIVED: 04/02/96
DATE ANALYZED: 04/02/96
DATE REPORTED: 04/08/96

ANALYTE	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)	DATA QUALIFIER	COMMENTS/ CONFIRMATION
Total Petroleum Hydrocarbons	48	1		Tank E - Bottom

ANALYSIS BY METHOD: PetroFLAGG™
INSTRUMENT: Dexsil Nephelometer

SAMPLE SIZE: 10 grams
ANALYST/REVIEWER: BCF

LABORATORY DIRECTOR
Kevin W. Miller

Note: PetroFLAGG™ is a screening method for determining Total Petroleum Hydrocarbons (TPH) in soil. In recent trials by the Dexsil Corporation the PetroFLAGG™ kit has provided rapid screening data that correlates well with U.S. EPA Methods 418.1 and 8015B. The Dexsil Corporation has made application to the U.S. EPA for approval of the screening method. However, until the method has been approved by the U.S. EPA or the CTDEP, results from this method should not be used to satisfy formal regulatory requirements.

FUSS & O'NEILL
MOBILE LABORATORY
ANALYSIS REPORT

PROJECT #: 91-272 M9
CLIENT: DPW - Mystic Oral School
SAMPLE I.D.: 342960402-09
MATRIX: SOIL

DATE RECEIVED: 04/02/96
DATE ANALYZED: 04/02/96
DATE REPORTED: 04/08/96

ANALYTE	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)	DATA QUALIFIER	COMMENTS/ CONFIRMATION
Total Petroleum Hydrocarbons	13	1		Tank E - Stockpile

ANALYSIS BY METHOD: PetroFLAGG™
INSTRUMENT: Dexsil Nephelometer

SAMPLE SIZE: 10 grams
ANALYST/REVIEWER: BCF

LABORATORY DIRECTOR
Kevin W. Miller

Note: PetroFLAGG™ is a screening method for determining Total Petroleum Hydrocarbons (TPH) in soil. In recent trials by the Dexsil Corporation the PetroFLAGG™ kit has provided rapid screening data that correlates well with U.S. EPA Methods 418.1 and 8015B. The Dexsil Corporation has made application to the U.S. EPA for approval of the screening method. However, until the method has been approved by the U.S. EPA or the CTDEP, results from this method should not be used to satisfy formal regulatory requirements.

FUSS & O'NEILL
MOBILE LABORATORY
ANALYSIS REPORT

PROJECT #: 91-272 M9
CLIENT: DPW - Mystic Oral School
SAMPLE I.D.: 342960402-10
MATRIX: SOIL

DATE RECEIVED: 04/02/96
DATE ANALYZED: 04/02/96
DATE REPORTED: 04/08/96

ANALYTE	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)	DATA QUALIFIER	COMMENTS/ CONFIRMATION
Total Petroleum Hydrocarbons	36	1		Tank E - Stockpile

ANALYSIS BY METHOD: PetroFLAGG™
INSTRUMENT: Dexsil Nephelometer

SAMPLE SIZE: 10 grams
ANALYST/REVIEWER: BCF

LABORATORY DIRECTOR
Kevin W. Miller

Note: PetroFLAGG™ is a screening method for determining Total Petroleum Hydrocarbons (TPH) in soil. In recent trials by the Dexsil Corporation the PetroFLAGG™ kit has provided rapid screening data that correlates well with U.S. EPA Methods 418.1 and 8015B. The Dexsil Corporation has made application to the U.S. EPA for approval of the screening method. However, until the method has been approved by the U.S. EPA or the CTDEP, results from this method should not be used to satisfy formal regulatory requirements.

FUSS & O'NEILL
MOBILE LABORATORY
ANALYSIS REPORT

PROJECT #: 91-272 M9
CLIENT: DPW - Mystic Oral School
SAMPLE I.D.: 342960402-11
MATRIX: SOIL

DATE RECEIVED: 04/02/96
DATE ANALYZED: 04/02/96
DATE REPORTED: 04/08/96

ANALYTE	CONC. (mg/Kg)	DETECTION LIMIT (mg/Kg)	DATA QUALIFIER	COMMENTS/ CONFIRMATION
Total Petroleum Hydrocarbons	14	1		Tank E - Stockpile

ANALYSIS BY METHOD: PetroFLAGG™
INSTRUMENT: Dexsil Nephelometer

SAMPLE SIZE: 10 grams
ANALYST/REVIEWER: BCF

LABORATORY DIRECTOR
Kevin W. Miller

Note: PetroFLAGG™ is a screening method for determining Total Petroleum Hydrocarbons (TPH) in soil. In recent trials by the Dexsil Corporation the PetroFLAGG™ kit has provided rapid screening data that correlates well with U.S. EPA Methods 418.1 and 8015B. The Dexsil Corporation has made application to the U.S. EPA for approval of the screening method. However, until the method has been approved by the U.S. EPA or the CTDEP, results from this method should not be used to satisfy formal regulatory requirements.

UNDERGROUND STORAGE FACILITY NOTIFICATION

2. PG 1 of 1

STATE OF CONNECTICUT
Department of Environmental Protection
UNDERGROUND STORAGE FACILITIES PROGRAM
Bureau of Waste Management
79 ELM STREET, Hartford, CT 06106-5127
TEL. (860) 424-3374

EPHM-6 Rev. 8/96

3. FOR STATE AGENCY USE ONLY — A. DATE ENTERED: 5/30/97 KC — B. FEE BILLED — C. FEE RECEIVED

D. GRID COORDINATES: X Y — E. DOES FACILITY MEET NEW REQUIREMENTS? ☐ YES ☐ NO

SITE I.D. 59-11286

PLEASE TYPE OR PRINT. ALL THREE COPIES MUST BE LEGIBLE

Refer to INSTRUCTIONS FOR FILING NOTIFICATION before completing form.

SECTION A

1a. ☐ FIRST NOTIFICATION
OR
b. ☐ SUBSEQUENT NOTIFICATION (If checked, enter no.)

SECTION B

4. LOCATION OF FACILITY	SITE NAME: Mystic Oral School	NO. AND STREET: 240 Oral School Road	NEAREST INTERSECTING STREET: Cow Hill Road	CITY OR TOWN: Mystic (Groton)	STATE: CT; 5. LATITUDE ° ' " LONGITUDE ° ' "
6. BUSINESS NAME AND MAILING ADDRESS	NAME: Mystic Oral School	NO. AND STREET: 240 Oral School Road		CITY OR TOWN: Mystic (Groton)	STATE: CT; ZIP CODE: 06340; TELEPHONE: (860) 536-4221
7. FACILITY OWNER	NAME: Dept. of Public Works	NO. AND STREET: 165 Capitol Avenue Room G-2,		CITY OR TOWN: Hartford	STATE: CT; ZIP CODE: 06106; TELEPHONE: 860) 566-5691
8. TYPE OF OWNER	☐ PRIVATE ☒ STATE ☐ MUNICIPAL ☐ FEDERAL (G.S.A. NO.).				
9. OPERATOR/CONTACT PERSON	NAME: Don Wagner	NO. AND STREET: 165 Capitol Avenue		CITY OR TOWN: Hartford	STATE: CT; ZIP CODE: 06106; TELEPHONE: ( ) 860 566-5691

SECTION C

10. TANK I.D.	11a. DATE OF INSTALLATION (Mo./Yr.)	11b. LIFE EXPECTANCY (# of years)	12a. TOTAL CAPACITY (Gals.)	IN USE	12b. STATUS: ABANDONED IN PLACE	EST. QUANTITY LEFT STORED (If any) (Gals.)	REMOVED	DATE TANK LAST USED (Mo./Yr.)	13. TYPE OF CONTENTS: OIL/PETROLEUM PRODUCT	CHEMICAL LIQUID	14. CONTENTS: CHEMICAL NAME OF PRINCIPAL SUBSTANCE (not trade name) (Enter C.A.S. No., if known)	15. CONSTRUCTION MATERIALS: STEEL	FIBERGLASS REINFORCED PLASTIC	OTHER (Specify from List A)	16. PROTECTION a. INTERNAL: LINED	UNLINED	CATHODIC PROTECTION	b. EXTERNAL: COATED/WRAPPED	CATHODIC PROTECTION	OTHER (Specify from List B)	17. INTEGRAL PIPING SYSTEM a. CONSTRUCTION MATERIAL (See List A)	b. PROTECTION (See List B)	DATE OF INSTALLATION OR REPLACEMENT (Mo./Yr.)	18. MONITORING SYSTEM (Specify type from list B)	19. FAILURE DETERMINATION CONDUCTED? (If "YES", enter "DATE" and attach results) (If "NO", enter "NO")
Example	5/75	30	5000	X					X		Heating fuel #2		X			X				H	3	H	5/75	U	NO
Example	7/60	–	8000				X	8/78		X	1,1,1, - Tricloroethane CAS #79016	X				X				E	7	W	7/60	U	–
E	1/75	–	10,000				X	3/96	X		No. 2 Fuel Oil	X													
ERI	4/96	30	10,000						X		No. 2 Fuel Oil		X			X				A,D	8,5 10 *	F W	4/96	Q,R	6-13-96

SECTION D

20. HAVE YOU ATTACHED SKETCH OF TANKS AND LOCATION? ☒ YES

21. COMMENTS: * Fill piping, galv. Stl. w/C-P; supply and return piping is copper in PVC secondary containment.

22. CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete.
Penalties: any owner who knowingly fails to notify shall be subject to a civil penalty not to exceed $10,000 for each tank for which notification is not given or for which false information is submitted.

22a. SIGNATURE: X [signature]

22b. DATE SIGNED: 5-1-97

22c. NAME (Type or Print): Don Wagner

22d. OFFICIAL TITLE (of owner or authorized representative): Asst. Dir. of Facilities

COPY 1: SEND TO DEP UST Program: 79 Elm Street, Hartford, CT 06106-5127

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC WORKS

UNDERGROUND STORAGE TANK PROGRAM

T. R. Anson
Commissioner

May 21, 1997

RECEIVED

MAY 27 1997

DEP WASTE MANAGEMENT BUREAU
UNDERGROUND STORAGE TANK
ENFORCEMENT PROGRAM

Mr. Philip Wilde
Environmental Analyst
Department of Environmental Protection
UST Program
79 Elm Street
Hartford, Connecticut 06106

Dear Mr. Wilde:

Subject: Mystic Oral School (Site A164)
Groton, Connecticut

Project No. BI-2B-760-B169
Statewide Underground Storage Tank Program

Please find enclosed the completed Underground Storage Facility Notification for your records for the above-subject site.

Please feel free to call if you have any questions.

Sincerely,

Joseph V. Cassidy
Project Manager

JVC/CCC/rm (106)
Attachment

cc: File - A164, Closure w/a
Don Wagner, DPW, w/a

Rm. 529 - 5th Floor
Tele: (860) 566-6322

ENVIRO SHIELD INC.

Clean, Preserve...Pro
Environmental Specialis

June 17, 1996

Mr. Bill Gerardi
Site Remediation Services, Inc.
10 Stoughton Road
East Windsor, CT 06088

JUN 20

Re: Tank System Test, June 13, 1996
Mystic Oral School
240 Oral School Road
Mystic, CT

Dear Mr. Gerardi:

The tank systems tested at the aforementioned location in Mystic, CT were identified as follows:

Tank System #1 10,000 gallon Fuel Oil Tank

The National Fire Protection Association's criteria for a tight tank system is a system with a net volume change of less than $\pm$ .050 gal/hr. for tank systems. These are calculated, mathematical tolerances only and are not meant to indicate the permission of any leak.

These precision tests were performed using the USTest 2000 Underground Storage Tank Testing System. This test method is a volumetric leak detection system which measures the fluid level and compensates that level for thermal expansion of the fluid within a tank. The USTest 2000 tank test system does meet the Environmental Protection Agency (EPA) performance standards for volumetric tank tightness testing.

The UST 2000/P liquid precision test results:

Tank System #1, tested with a fuel level of 91", showed a net volume change of +0.037123 gph.
Tank System #1 has been tested tight.

P.O. Box 1296, 250 Moffitt St., Stratford, CT 06497 (203) 380-5644 (800) 394-2268 FAX (203) 378-8736

The UST 2000/U Ullage precision test results:

Tank System #1 test indicated a tight tank.

These results shown conform to the precision test criteria as established by Local, State and Federal regulatory agencies. It should be clearly understood that these results do not offer a guarantee that the subject tank systems have not, do not or will not leak; only that these tank systems have been tested in accordance with protocol established by the test manufacturer, USTest, Inc. and comply with current EPA Standards which dictate that for underground fuel tanks, the maximum allowable leak/gain rate over the period of one hour is .05 gallons per hour.

Prior to the test, the tank bottom was checked for water through the fill pipe. No measurable amount of water was detected on the tank bottom.

RE: Corrosion Control Testing for one Fuel Oil Tank at the Mystic Oral School 240 Oral School Road in Mystic, CT

In accordance with the regulations of Connecticut State Agencies Section 22a-449(d)-1. "Control of the nonresidential underground storage and handling of oil and petroleum liquids" the following soil voltage measurements should be maintained in your files and forwarded to the State of Connecticut DEP UST Department.

A test of the cathodic protection was performed on June 13, 1996. A structure to soil test voltage reading of at least minus 0.85 volts measured between the structure and a copper-copper sulfate electrode must be maintained for proper system operation. (This also appears in the regulations).

ENVIRO SHIELD INC.

Structure to soil voltage measured between the structure and a Cu-CuSO4 reference:

Tank #1 Fuel Oil
A. -1.60v PASSED
B. -1.55v PASSED
C. -1.50v PASSED
D. -1.50v PASSED

*All tests were performed according to National Association of Corrosion Engineers (NACE) Standard RP-02-85 Recommended Practice Control of External Corrosion on Metallic buried, partially buried, or submerged Liquid Storage systems.

Annual corrosion control monitoring and record keeping as required by Section 22a-449(d)-1 may be performed by ENVIROSHIELD, INC. upon request.

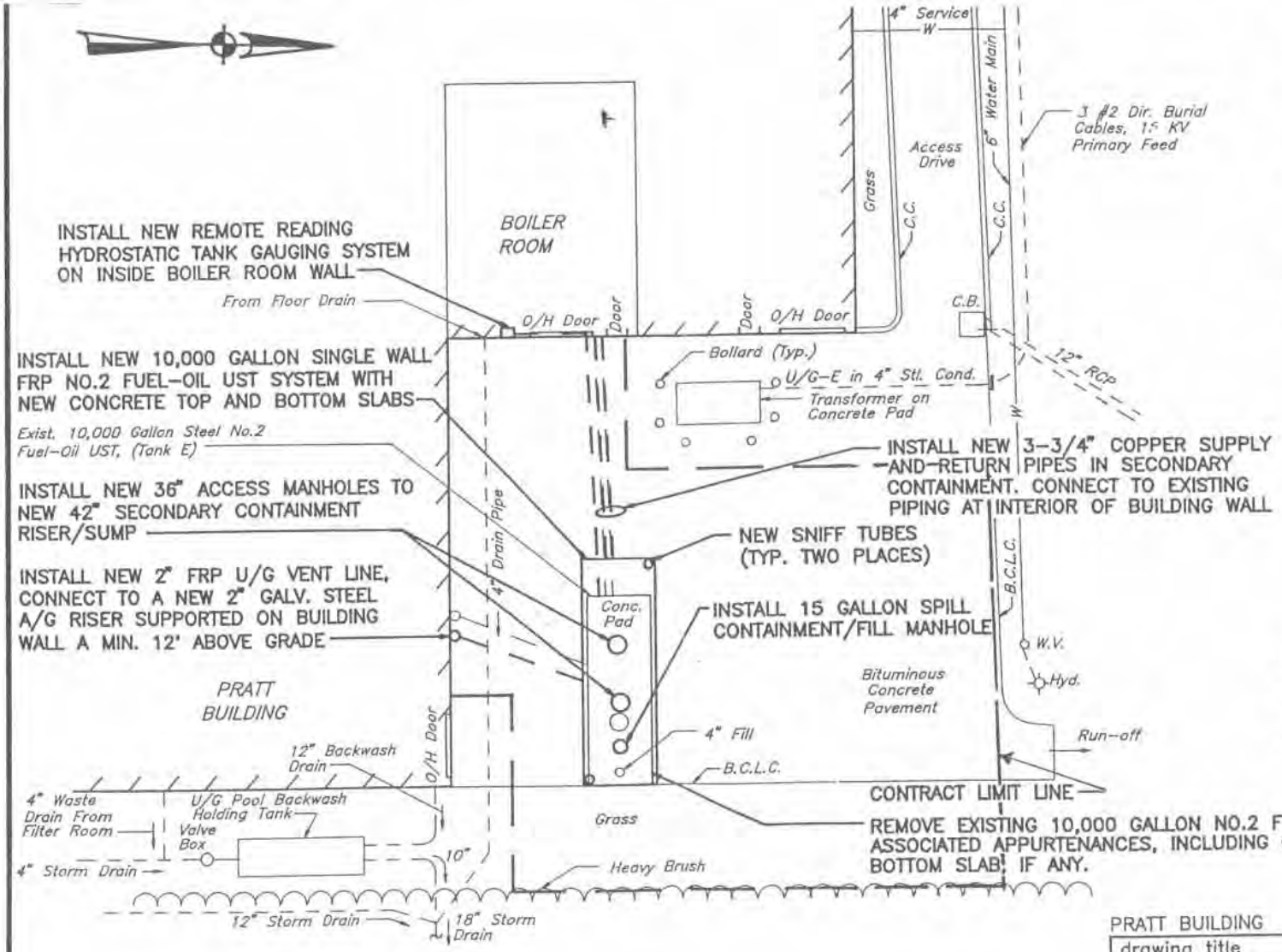
If you have any questions concerning this information please contact me at (203) 380-5644 or 1-800-394-2268.

Sincerely,

ENVIROSHIELD, INC

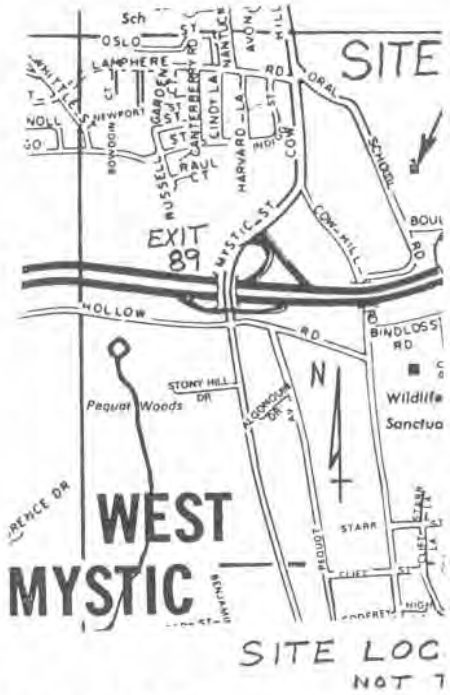
Leonard Bochicchio
Senior Field Coordinator

Enclosure



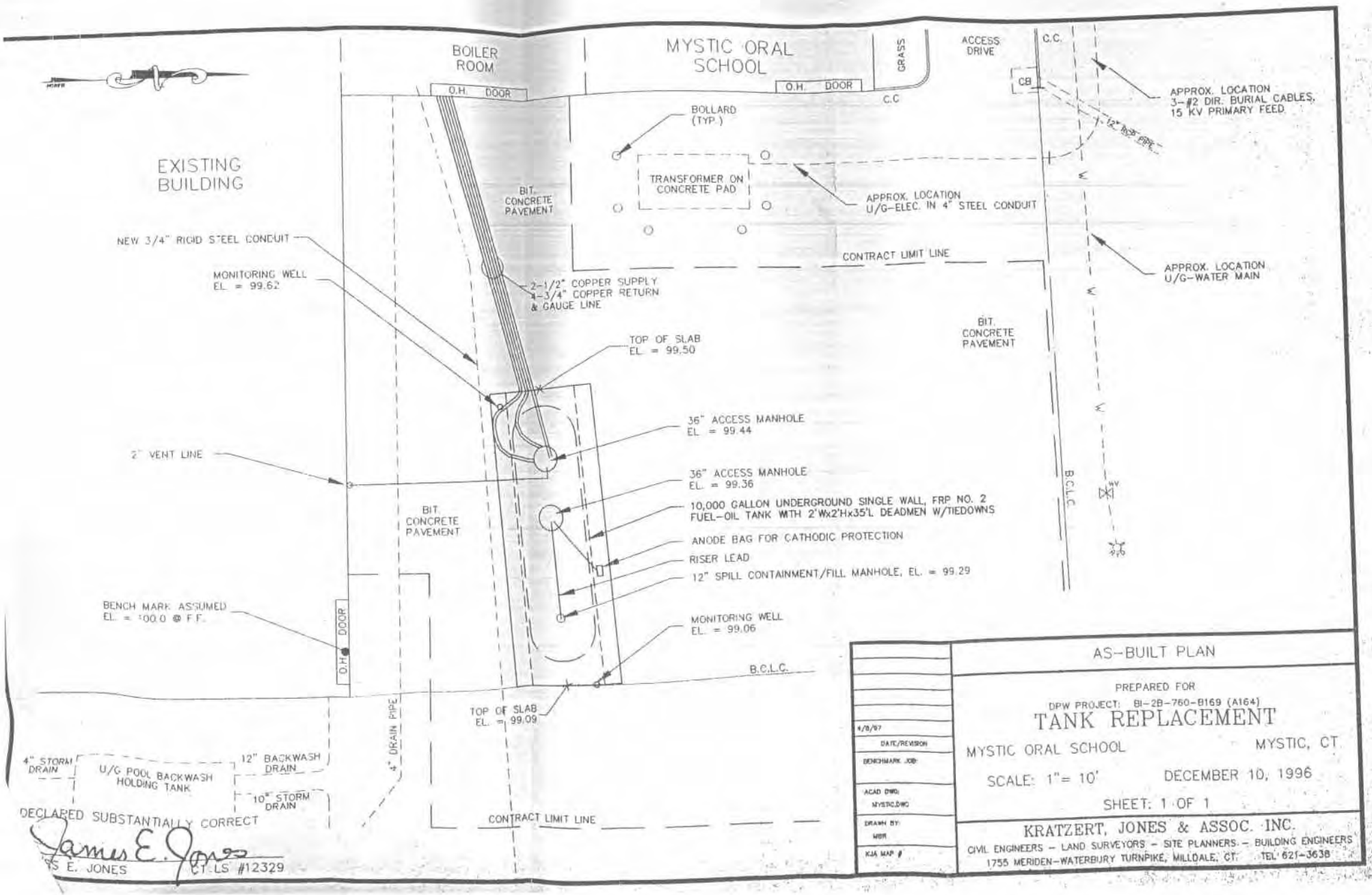
NOTES:

1. FOR GENERAL CIVIL NOTES, LEGE
   SEE DRAWING NO. 2.
2. FOR MISCELLANEOUS DETAILS, SE
3. DEPTH TO BOTTOM OF TANK FRC



PRATT BUILDING

drawing title			STATE OF
UNDERGROUND TANK SITE PLAN			DEPARTMENT
REVISIONS			
mark	date	description	DRAWINGS PREPARED BY DEPARTMENT OF PUBLIC WORKS
			pro
			site
CAD: A164-C1.DWG			pro


BOILER ROOM
MYSTIC ORAL SCHOOL
GRASS
ACCESS DRIVE
C.C.
O.H. DOOR
O.H. DOOR
C.C
CB
APPROX. LOCATION 3-#2 DIR. BURIAL CABLES, 15 KV PRIMARY FEED
12" HDPE PIPE
BOLLARD (TYP.)
EXISTING BUILDING
TRANSFORMER ON CONCRETE PAD
APPROX. LOCATION U/G-ELEC. IN 4" STEEL CONDUIT
BIT. CONCRETE PAVEMENT
NEW 3/4" RIGID STEEL CONDUIT
CONTRACT LIMIT LINE
APPROX. LOCATION U/G-WATER MAIN
MONITORING WELL EL. = 99.62
2-1/2" COPPER SUPPLY 4-3/4" COPPER RETURN & GAUGE LINE
BIT. CONCRETE PAVEMENT
TOP OF SLAB EL. = 99.50
36" ACCESS MANHOLE EL. = 99.44
2" VENT LINE
36" ACCESS MANHOLE EL. = 99.36
B.C.L.C.
10,000 GALLON UNDERGROUND SINGLE WALL, FRP NO. 2 FUEL-OIL TANK WITH 2'Wx2'Hx35'L DEADMEN W/TIEDOWNS
BIT. CONCRETE PAVEMENT
ANODE BAG FOR CATHODIC PROTECTION
RISER LEAD
12" SPILL CONTAINMENT/FILL MANHOLE, EL. = 99.29
BENCH MARK ASSUMED EL. = 100.0 @ F.F.
O.H. DOOR
MONITORING WELL EL. = 99.06
B.C.L.C.
TOP OF SLAB EL. = 99.09
4" DRAIN PIPE
4" STORM DRAIN
U/G POOL BACKWASH HOLDING TANK
12" BACKWASH DRAIN
10" STORM DRAIN
CONTRACT LIMIT LINE
DECLARED SUBSTANTIALLY CORRECT
JAMES E. JONES CT. LS #12329
4/8/97
DATE/REVISION
BENCHMARK JOB:
ACAD DWG: MYSTIC.DWG
DRAWN BY: MBR
KJA MAP #
AS-BUILT PLAN
PREPARED FOR
DPW PROJECT: BI-2B-760-B169 (A164)
TANK REPLACEMENT
MYSTIC ORAL SCHOOL
MYSTIC, CT
SCALE: 1"= 10'
DECEMBER 10, 1996
SHEET: 1 OF 1
KRATZERT, JONES & ASSOC. INC.
CIVIL ENGINEERS - LAND SURVEYORS - SITE PLANNERS - BUILDING ENGINEERS
1755 MERIDEN-WATERBURY TURNPIKE, MILLDALE, CT. TEL 621-3638

UST Data Report

Owner ID: **6492**

Owner

6492

OwnerType: State Government
Name: **STATE OF CONNECTICUT, D.P.W.**
Address: **165 CAPITAL AVE.**
City, ST Zip: Hartford CT 06106
Contact: Phone: (203) 566-2844
OwnerDesc: State Government Fax:
Comment:

Facility

Owner ID: 6492 Alt Fac ID: 59-11286

Facility ID: FacilityType: OperFirstNam OperLastName Phone
Facility Name: Street Address: City: State ZIP:
Comments:
11286 Not Listed

MYSTIC ORAL SCHOOL
240 ORAL SCHOOL ROAD Mystic CT 06355

Site Owner GSA #:
Site Basin Name: NO LAT/LONG
Site Proprietary Code: N
Site Grid X: 1
Site Grid Y: 1
Intersecting Street: COW HILL ROAD

Date of Receipt: 7/13/1995

LatDeg: +04
LatMin: 12
LatSec: 21.00
LongDeg: 007
LongMin: 15
LongSec:

Facility Contacts:

Last Name:	Phone:
CARL EDLER	(203) 336-6900
SEARS ROEBUCK & CO.	(203) 336-6900

Tank

Fac ID: 11286

Tank Status: (•) All Tanks ( ) In Use ( ) Perm Out of Use ( ) Temp Out of Use

TankID Tank Stat Desc: Closure Status Desc: Capacity:
Overfill inst Spill Inst CP Met FedRegd? Tank Mat Desc:
Subs.Desc: Dt Lst Usd: TankModsDesc: PipeMatDes PipeModDesc:

1 Permanently Out of U Removed 250
☐ ☐ ☐ ☐ Asphalt Coated or Bare Steel
Heating Oil 09/01/92 None Bare Steel None

2 Permanently Out of U Removed 7500
☐ ☐ ☐ ☐ Asphalt Coated or Bare Steel
Heating Oil 09/01/92 None Bare Steel None

3 Currently In Use 10000
☑ ☐ ☑ ☐ Fiberglass Reinforced Plastic
Heating Oil None Fiberglass Reinfor Secondary

4 Permanently Out of U Removed 10000
☐ ☐ ☐ ☐ Asphalt Coated or Bare Steel
Heating Oil 09/01/92 None Bare Steel None

5 Currently In Use 10000
☑ ☐ ☑ ☐ Fiberglass Reinforced Plastic
Heating Oil None Fiberglass Reinfor Secondary

6 Permanently Out of U Removed 500
☐ ☐ ☐ ☑ Asphalt Coated or Bare Steel
Gasoline 09/01/92 None Other None

7 Permanently Out of U Tank removed from ground 10000
☐ ☐ ☐ ☐ Asphalt Coated or Bare Steel
Heating Oil 03/01/96 None Not Listed None

8 Currently In Use 10000
☐ ☐ ☑ ☐ Fiberglass Reinforced Plastic
Heating Oil None Galvanized Steel Cathodically

Facility Summary for Facility ID # 59-11286

Owner Name / Addr.: STATE OF CONNECTICUT, D.P.W. 165 CAPITAL AVE., Hartford, CT 06106

Facility ID	Location Name	Location Street Address	Location City	Zip
59-11286	MYSTIC ORAL SCHOOL	240 ORAL SCHOOL ROAD	Mystic	06355

Tank ID Status	Installed LastUsed	Product Capacity	Tank Mat'l of Construction Secondary Option	Piping Material Secondary Option	Piping Type	Tank Release Detection Piping Release Detection	FR Met Spill/Over/CP
A1 Permanently Out of Use	1/1/1970 92	Heating Oil 250	Asphalt Coated or Bare Steel None	Bare Steel None	Not Listed	A B C D E F G H I J K ● B D E F G H I J K ●	No No No No
A2 Permanently Out of Use	1/1/1960 92	Heating Oil 7,500	Asphalt Coated or Bare Steel None	Bare Steel None	Not Listed	A B C D E F G H I J K ● B D E F G H I J K ●	No No No No
A2R1 Currently In Use	1/1/1993	Heating Oil 10,000	Fiberglass Reinforced Plastic None	Fiberglass Reinforced Plastic Secondary Containment	Not Listed	A B C D ● F G H I J K L B D E F G H I J K ●	No No Yes Yes
A3 Permanently Out of Use	1/1/1975 92	Heating Oil 10,000	Asphalt Coated or Bare Steel None	Bare Steel None	Not Listed	A B C D E F G H I J K ● B D E F G H I J K ●	No No No No
A3R1 Currently In Use	1/1/1993	Heating Oil 10,000	Fiberglass Reinforced Plastic None	Fiberglass Reinforced Plastic Secondary Containment	Not Listed	A B C D ● F G H I J K L B D E F G H I J K ●	No No Yes Yes
B4 Permanently Out of Use	1/1/1950 92	Gasoline 500	Asphalt Coated or Bare Steel None	Other None	Not Listed	A B C D E F G H I J K ● B D E F G H I J K ●	No No No No
E Permanently Out of Use	1/1/1975 96	Heating Oil 10,000	Asphalt Coated or Bare Steel None	Not Listed None	Not Listed	A B C D E F G H I J K ● B D E F G H I J K ●	No No No No
ERI Currently In Use	4/1/1996	Heating Oil 10,000	Fiberglass Reinforced Plastic None	Galvanized Steel Cathodically Protected	Not Listed	A ● C D ● F G H I J K L B D E F G H I J K ●	No No No Yes

Tank/Piping Release Detection Codes

A Manual Tank Gauging	C Inventory Control	E Vapor Monitoring	G Interstit. Dbl-Wall Monitor	I SIR	K Deferred
B Tank/Line Tightness Testing	D ATG/Auto Line LD	F GW Monitoring	H Interstit. Sec. Con. Monitor	J Other Methods	L Not Listed

Oil and Chemical Spill Records

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OFFICE BUILDING HARTFORD, CONNECTICUT 06115

Oil Spill Report

DATE: 12/15/76 TIME: 1250 hrs

FROM TROOP: _____ BY: Dick Burke PHONE: 887-3525

REPRESENTING (COMPANY) Dahl Oil Co.

ADDESS (COMPANY) Shipping St. Norwich

LOCATION OF SPILL (CITY & STATE: Mystic Oral School - Mystic

TO (BODY OF WATER) -0-

QUANTITY AND TYPE: 3 gal #4

AMOUNT THAT REACHED THE WATER: -0-

SOURCE: Delivery Truck

CAUSE: Nozzle stuck

DISCHARGE STOPPED: yes CONTAINMENT MEASURES: area covered with sawdust and sand - then sand removed & resanded.

OTHER AGENCIES CONTACTED: _____

DATE AND TIME OF SPILL: 11/14/76 @ 1800 hrs — no notification until today

LEGAL RESPONSIBILITY ACCEPTED BY POLLUTER: yes

CLEANUP ACTIONS BEING TAKEN: Dahl cleaning area with sand & sawdust

CLEANUP CONTRACTOR: Dahl Oil Co REQUESTED: _____ ARRIVED: _____

CONTAINMENT LOCATION: Mystic Oral School - tank filling location -

CONTAINMENT LOCATION: _____

REMOVAL LOCATION: _____

SEE REVERSE SIDE FOR
ADDITIONAL INFORMATION

Donald Benton Jr.
SIGNATURE

This paper was produced from recycled paper - both books and ruled

STATE OF CONNECTICUT

DEPARTMENT OF ENVIRONMENTAL PROTECTION

STATE OFFICE BUILDING HARTFORD, CONNECTICUT 06115

WATER COMPLIANCE & HAZARDOUS SUBSTANCES
ROOM 124

REPORT OF PETROLEUM OR CHEMICAL PRODUCT DISCHARGE, SPILLAGE, SEEPAGE, FILTRATION

The following information is submitted concerning petroleum or chemical product discharge reported verbally to the Department of Environmental Protection/State Police at Hartford (location)

on December 15, 1976 (date) at 12:55 (time) by Richard T. Burke (name).

1. Time and date of discharge, spillage, etc.

   6:15 p.m. December 14, 1976

2. Location, to include name of town, river, highway, distance from intersection, etc., of the pollution or contamination.

   Mystic Oral School

   Oral Road, Mystic, CT

3. Type of oil, petroleum or chemical pollutant or contaminant.

   No. 4 fuel oil

4. Quantity of discharge, spillage, seepage, filtration.

   3 - 4 gallons

5. Cause of pollution or contamination:

   a. Type of vessel, vehicle, containers, etc., which contained the pollutant or contaminant

      Tank truck

   b. Describe in detail what actually occurred to cause discharge, spillage, seepage, filtration.

      Driver at fill pipe - nozzle wouldn't shut - ran back to truck to disengage.

WATER COMPLIANCE
Dept. of Environmental Protection
RECEIVED
DEC 17 1976

ANSWERED
REFERRED
FILED

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c. If pollutant or contamination was a result of discharge, spillage, seepage, filtration from a moving vessel or vehicle, give location of departure and destination.

Norwich to Mystic

6. Name and address of owner of ship, boat or other vessel, terminal, establishment, vehicle, trailer or machine causing such pollution or contamination.

The Dahl Oil Company, Inc.

340 West Thames Street

Norwich, CT 06360

7. Name and address of person making this report.

Richard T. Burke c/o The Dahl Oil Company

8. Title, or relationship to owner, of person making report.

Vice President

All statements contained herein are true to the best of my knowledge.

Signature of Person Making Report

Connecticut Department of Energy and Environmental Protection
Emergency Response and Spill Prevention Division
Emergency Incident Report

Case No.: 98-05932
Staff Receiving Call: 922 ACETO, JOHN Assigned To: 000 NO RESPONSE
Date Reported: 09/02/1998 Time Reported: 10:50
Date of Release: 09/02/1998 Time of Release: 9:50
Town of Release: LEDYARD State of Release: CT
Location of Reported Release: 240 ORAL SCHOOL ROAD
Reported By: HAROLD MONROE Phone: (860) 536-4221
Representing: ORAL SCHOOL SYSTEM
Responsible Party: MYSTIC EDUCATIONAL CENTER Phone: (860) 536-4221
Street Address: 240 ORAL SCHOOL ROAD
Town: MYSTIC, R.F.D. 1 State: CT Zip Code: 06339-
Does the Responsible Party Accept Financial Responsibility? YES
Release Type: PETROLEUM
Release Substance: #2 FUEL OIL
Media: GROUND SURFACE
Total Quantity: 4 Gallons 0 Cubic Yards 0 Cubic Feet 0 Drums 0 Pounds
Emergency Measures: CONTAINED AND REMOVED
Has the Release Been Terminated?: YES
Type of Waterbody Affected:
Name of Waterbody Affected: NA
Total Quantity Recovered: 4 Total Quantity in Water: 0
Corrective Actions Taken: REMOVED CONTAINED

Discharge Class:
Cause of Incident: OVERFILL
Agencies Notified: BUREAU OF WASTE MANAGEMENT - OIL AND CHEMICAL SPILL RESPONSE
Status: CLOSED

Connecticut Department of Energy and Environmental Protection
Emergency Response and Spill Prevention Division
Emergency Incident Report

Case No.: 2004-07255
Staff Receiving Call: 206 KINNEY, CLARENCE Assigned To: 936 WOFFORD, RON
Date Reported: 10/19/2004 Time Reported: 6:52
Date of Release: 10/19/2004 Time of Release: UNKNOWN
Town of Release: GROTON State of Release: CT
Location of Reported Release: 240 ORAL SCHOOL RD THE MYSTIC EDUCATION CENTER
Reported By: GROTON DISPATCH Phone: (860) 448-1562
Representing: SELF
Responsible Party: Phone:
Street Address:
Town: State: Zip Code:
Does the Responsible Party Accept Financial Responsibility?
Release Type: PETROLEUM
Release Substance: OIL
Media: INSIDE BUILDING
Total Quantity: 0 Gallons 0 Cubic Yards 0 Cubic Feet 0 Drums 0 Pounds
Emergency Measures: UNKNOWN AMOUNT OF OIL LEAKED IN BASEMENT DUE TO TANK FAILURE POSSIBLY UP TO 400 GALLONS THERE IS A SUMP PUMP IN BASEMENT WHICH POSSIBLY PUMPED OIL INTO SEWER SYSTEM
Has the Release Been Terminated?: NO
Type of Waterbody Affected: CATCH BASIN
Name of Waterbody Affected:
Total Quantity Recovered: 0 Total Quantity in Water: 0
Corrective Actions Taken:

Discharge Class: PRIVATE
Cause of Incident: FUEL TANK FAILURE
Agencies Notified: DEP DISPATCH
LOCAL FIRE DEPARTMENT
Status: CLOSED

Connecticut Department of Energy and Environmental Protection
Emergency Response and Spill Prevention Division
Emergency Incident Report

Case No.: 2002-00085
Staff Receiving Call: 916 STAVOLA, ROSANNE Assigned To: 923 MCCANN, MIKE
Date Reported: 01/04/2002 Time Reported: 13:21
Date of Release: 01/04/2002 Time of Release: UNKNOWN
Town of Release: LEDYARD State of Release: CT
Location of Reported Release: MYSTIC EDUCATIONAL CENTER, 240 ORAL SCHOOL ROQD
Reported By: HAROLD MONROE Phone: (860) 536-4221 250-6034
Representing: PUBLIC WORKS
Responsible Party: PUBLIC WORKS Phone: (860) 536-4221
Street Address:
Town: State: Zip Code:
Does the Responsible Party Accept Financial Responsibility? YES
Release Type: PETROLEUM
Release Substance: #2 FUEL OIL
Media: GROUND SURFACE
Total Quantity: 30 Gallons 0 Cubic Yards 0 Cubic Feet 0 Drums 0 Pounds
Emergency Measures: PUMPING OIL FROM ONE TANK TO ANOTHER AND OVERFLOWED, TO GROUND SURFACE, SPEEDI DRI APPLIED
Has the Release Been Terminated?: YES
Type of Waterbody Affected:
Name of Waterbody Affected:
Total Quantity Recovered: 30 Total Quantity in Water: 0
Corrective Actions Taken: REMOVED CONTAINED

Discharge Class: GOVERNMENTAL
Cause of Incident: OVERFILL
Agencies Notified:
Status: CLOSED

Connecticut Department of Energy and Environmental Protection
Emergency Response and Spill Prevention Division
Emergency Incident Report

Case No.: 2005-01170
Staff Receiving Call: 204 THERRIEN,ADAM Assigned To: 922 ACETO, JOHN
Date Reported: 02/26/2005 Time Reported: 8:17
Date of Release: 02/26/2005 Time of Release: UNKNOWN
Town of Release: GROTON State of Release: CT
Location of Reported Release: 240 ORAL SCHOOL RD MYSTIC EDUCATION CENTER
Reported By: DISPATCHER 7 Phone: (860) 448-1562
Representing: FD
Responsible Party: Phone:
Street Address:
Town: State: Zip Code:
Does the Responsible Party Accept Financial Responsibility?
Release Type: PETROLEUM
Release Substance: #2 FUEL OIL
Media: GROUND SURFACE
Total Quantity: ~100 Gallons 0 Cubic Yards 0 Cubic Feet 0 Drums 0 Pounds
Emergency Measures:
Has the Release Been Terminated?: YES
Type of Waterbody Affected:
Name of Waterbody Affected:
Total Quantity Recovered: 0 Total Quantity in Water: 0
Corrective Actions Taken: CONTAINED

Discharge Class: COMMERCIAL
Cause of Incident: ABOVE GROUND TANK FAILURE
Agencies Notified: DEP DISPATCH
LOCAL FIRE DEPARTMENT
Status: CLOSED

Connecticut Department of Energy and Environmental Protection
Emergency Response and Spill Prevention Division
Emergency Incident Report

Case No.: 2011-01739
Staff Receiving Call: 204 THERRIEN,ADAM Assigned To: 938 SCALORA, RICH
Date Reported: 04/09/2011 Time Reported: 10:20
Date of Release: 04/09/2011 Time of Release: UNKNOWN
Town of Release: GROTON State of Release: CT
Location of Reported Release: COW HILL RD @ THE ORAL SCHOOL
Reported By: MIKE KANE Phone: (860) 608-2184
Representing: SELF
Responsible Party: Phone:
Street Address:
Town: State: Zip Code:
Does the Responsible Party Accept Financial Responsibility?
Release Type: UNKNOWN
Release Substance: UNKNOWN
Media: SURFACE WATER
Total Quantity: 0 Gallons 0 Cubic Yards 0 Cubic Feet 0 Drums 0 Pounds
Emergency Measures: backhoe dumping unknow items into a stream possible soild waste
Has the Release Been Terminated?: NO
Type of Waterbody Affected:
Name of Waterbody Affected:
Total Quantity Recovered: 0 Total Quantity in Water: 0
Corrective Actions Taken: INVESTIGATED

Discharge Class: UNKNOWN
Cause of Incident: DUMPING
Agencies Notified: DEP DISPATCH
Status: CLOSED

Connecticut Department of Energy and Environmental Protection
Emergency Response and Spill Prevention Division
Emergency Incident Report

Case No.: 2003-03753
Staff Receiving Call: 208 MONARCA, VINCENT Assigned To: 937 CHANDLER, JEFF
Date Reported: 05/20/2003 Time Reported: 17:49
Date of Release: 05/20/2003 Time of Release: UNKNOWN
Town of Release: GROTON State of Release: CT
Location of Reported Release: 240 ORAL SCHOOL RD
Reported By: FD Phone: (860) 448-1562
Representing: FD
Responsible Party: Phone:
Street Address:
Town: State: Zip Code:
Does the Responsible Party Accept Financial Responsibility?
Release Type: PETROLEUM
Release Substance: #2 FUEL OIL
Media: GROUND SURFACE
Total Quantity: <100 Gallons 0 Cubic Yards 0 Cubic Feet 0 Drums 0 Pounds
Emergency Measures:
Has the Release Been Terminated?: YES
Type of Waterbody Affected:
Name of Waterbody Affected:
Total Quantity Recovered: 0 Total Quantity in Water: 0
Corrective Actions Taken: REMOVED, CONTAINED, CONTRACTED, SANDED, SPEEDI DRI

Discharge Class: COMMERCIAL
Cause of Incident: CARGO TANK FAILURE
Agencies Notified: DEP DISPATCH, 921, LOCAL FIRE DEPARTMENT
Status: CLOSED

Connecticut Department of Energy and Environmental Protection
Emergency Response and Spill Prevention Division
Emergency Incident Report

Case No.: 2012-02536
Staff Receiving Call: 205 COX, MICHAEL Assigned To: 000 NO RESPONSE
Date Reported: 05/22/2012 Time Reported: 8:07
Date of Release: 05/21/2012 Time of Release: 8:00
Town of Release: LEDYARD State of Release: CT
Location of Reported Release: 240 ORAL SCHOOL ROAD, MYSTIC - MYSTIC EDUCATION CENTER
Reported By: JACKIE BROWN Phone: (860) 713-5678
Representing: STATE OF CT DAS
Responsible Party: SAA Phone:
Street Address:
Town: State: Zip Code:
Does the Responsible Party Accept Financial Responsibility? YES
Release Type: PETROLEUM
Release Substance: #2 FUEL OIL
Media: INSIDE BUILDING
Total Quantity: ~2 Gallons 0 Cubic Yards 0 Cubic Feet 0 Drums 0 Pounds
Emergency Measures: speedi dry
Has the Release Been Terminated?: YES
Type of Waterbody Affected: NONE
Name of Waterbody Affected: N/A
Total Quantity Recovered: 0 Total Quantity in Water: 0
Corrective Actions Taken: CONTAINED CLEANED

Discharge Class: GOVERNMENTAL
Cause of Incident: PUMP FAILURE
Agencies Notified: DEP DISPATCH
Status: CLOSED

Connecticut Department of Energy and Environmental Protection
Emergency Response and Spill Prevention Division
Emergency Incident Report

Case No.: 97-03686
Staff Receiving Call: 206 KINNEY, CLARENCE Assigned To: 000 NO RESPONSE
Date Reported: 07/11/1997 Time Reported: 7:54
Date of Release: 07/11/1997 Time of Release: 7:45
Town of Release: GROTON State of Release: CT
Location of Reported Release: ORAL SCHOOL RD & HIGH ST
Reported By: GROTON DISP Phone: (860) 448-1562
Representing: SELF
Responsible Party: Phone:
Street Address:
Town: State: Zip Code:
Does the Responsible Party Accept Financial Responsibility?
Release Type: PETROLEUM
Release Substance: MOTOR OIL
Media: GROUND SURFACE
Total Quantity: 2 Gallons 0 Cubic Yards 0 Cubic Feet 0 Drums 0 Pounds
Emergency Measures:
Has the Release Been Terminated?: NO
Type of Waterbody Affected: CATCH BASIN SOME PRODUCT INTO STORM
Name of Waterbody Affected:
Total Quantity Recovered: 0 Total Quantity in Water: 0
Corrective Actions Taken:

Discharge Class:
Cause of Incident: UNKNOWN
Agencies Notified: DEP DISPATCH
LOCAL FIRE DEPARTMENT
Status: CLOSED

Surficial Geology Materials Map

SURFICIAL MATERIALS
GLACIAL AND POSTGLACIAL DEPOSITS
GROTON, CONNECTICUT

GLACIAL ICE-LAID DEPOSITS

- t — Thin Till
- tt — Thick Till
- ts — End Moraine deposits

GLACIAL MELTWATER DEPOSITS

Fine Deposits

- f — Fines (very fine sand, silt, and clay)

Coarse Deposits

- g — Gravel
- sg — Sand and Gravel
- s — Sand

Stacked Coarse Deposits

- g/sg — Gravel overlying Sand and Gravel
- g/s — Gravel overlying Sand
- sg/s — Sand and Gravel overlying Sand
- sg/s/sg — Sand and Gravel overlying Sand overlying Sand and Gravel
- s/g — Sand overlying Gravel
- s/sg — Sand overlying Sand and Gravel

Stacked Coarse Deposits Overlying Fine Deposits

- g/s/f — Gravel overlying Sand overlying Fines
- g/f — Gravel overlying Fines
- sg/s/f — Sand and Gravel overlying Sand overlying Fines
- sg/f — Sand and Gravel overlying Fines
- s/f — Sand overlying Fines

Stacked Fine Deposits Overlying Coarse Deposits

- f/sg — Fines overlying Sand and Gravel
- f/s — Fines overlying Sand

POSTGLACIAL DEPOSITS

- a — Floodplain Alluvium
- a/sg * — Alluvium overlying undifferentiated Coarse deposits (g, sg, s)
- a/s — Alluvium overlying Sand
- a/f — Alluvium overlying Fines
- a/s/f * — Alluvium overlying undifferentiated Coarse deposits overlying Fine deposits
- a/f/g * — Alluvium overlying undifferentiated Fine deposits overlying Coarse deposits
- sw — Swamp deposits
- sw/s — Swamp deposits overlying Sand
- sw/f — Swamp deposits overlying Fines
- sw/s/f — Swamp deposits overlying Sand overlying Fines
- sw/f/s — Swamp deposits overlying Fines overlying Sand
- sm — Salt-Marsh and Tidal-Marsh deposits
- sm/s/f — Salt-Marsh and Tidal-Marsh deposits overlying Sand
- sm/f — Salt-Marsh and Tidal-Marsh deposits overlying Fines
- ta — Talus
- b — Beach deposits
- af — Artificial Fill

* Alluvium may be overlying any of the Coarse deposits (g, sg, s)

- w — Water

PARTICLE DIAMETER												
10	2.5	.16	.08	.04	.02	.01	.005	.0025	.00015	in		
256	64	4	2	1	.5	.25	.125	.068	.004	mm		
Boulders	Cobbles	Pebbles	Granules	Very Coarse Sand	Coarse Sand	Medium Sand	Fine Sand	Very Fine Sand	Silt	Clay		
GRAVEL PARTICLES				SAND PARTICLES					FINE PARTICLES			

Grain-size classification (modified from Wentworth, 1922)

EXPLANATION

Unconsolidated glacial and postglacial deposits, that range from a few feet to several hundred feet in thickness, overlie the bedrock surface of Connecticut (see Block Diagram).This map portrays the areal extent and subsurface grain-size (textural) distributions of these surficial materials. The map legend is designed to highlight the relationship between the depositional origins and the distribution and character of the materials portrayed. Most of Connecticut's surficial material is glacially derived, and can be divided into two broad depositional categories: Glacial Ice-Laid deposits (tills and moraine) which are generally exposed in the uplands, and are the most widespread surficial deposit in Connecticut; and Glacial Meltwater deposits (stratified deposits) which are most commonly concentrated in valleys and lowlands. A mapping emphasis is placed on stratified meltwater deposits because their distribution and character have historically influenced development patterns throughout the state.

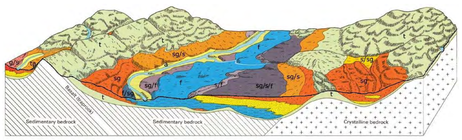
For a complete description of surficial materials map units, and further information concerning their thickness and modes of occurrence, please refer to the published Surficial Materials Map of Connecticut and the companion Quaternary Geologic Map of Connecticut and Long Island Sound Basin (see Data Sources).

Glacial Ice-Laid deposits (tills and moraine) were derived directly from the ice and consist of nonsorted, generally nonstratified mixtures of grain-sizes ranging from clay to large boulders. The matrix of most tills is predominantly sand and silt and boulders can be sparse to abundant. Some tills contain lenses of sorted sand and gravel and occasionally masses of laminated fine-grained sediment. The lack of sorting and stratification typical of ice-laid deposits often makes them poorly drained, difficult to dig in or plow, mediocre sources of groundwater and unsuited for septic systems. Till blankets the bedrock surface in variable thicknesses and commonly underlies stratified meltwater deposits (see Block Diagram). End moraine deposits (primarily ablation till) occur principally in southeastern Connecticut.

Glacial Meltwater deposits (stratified deposits) were laid down in glacial streams, lakes and ponds which occupied the valleys and lowlands of Connecticut as the last ice sheet melted away to the north. They are often composed of layers of well-to-poorly sorted sands, gravels, silts and clays with few to no boulders, and owing to their water-related depositional origins they have many characteristics that are favorable for development. Because water is a better sorting agent than ice, glacial meltwater deposits are commonly better sorted, more permeable, and better aquifers than ice-laid deposits. They can be good sources of construction aggregate, and are relatively easy to excavate and build highways and buildings on.

Meltwater deposits are depicted using four basic texturally-based map units: gravel, sand and gravel, sand, and fines. To the extent that it is known or can be inferred, the subsurface textural composition of meltwater deposits is shown for their entire vertical thickness. In many places similar conditions persisted for the entire time that a meltwater deposit was being laid down, and a single map unit (e.g. s- sand) is sufficient to describe the entire meltwater section. Areal and vertical textural variability can occur within the meltwater deposits because the amount of energy available to carry sediment varies with each meltwater setting (stream, delta, lake, etc.), and settings can change over time. High-energy depositional environments near glacial margins (proximal) tend to favor deposition of coarse material but as time passes, and the glacial margins melt back, less energy is available and finer grained distal deposits can become predominant. Where more complex stratigraphic relationships existed because of changing conditions during deposition, "stacked" map units are used to characterize the subsurface (e.g. sg/s/f - sand and gravel overlying sand overlying fines). Where postglacial deposits overlie meltwater deposits, this relationship is also shown (e.g. a/s - alluvium overlying sand).

Postglacial Sediments (primarily floodplain alluvium and swamp deposits) are less widely distributed and are typically thinner than the glacial deposits that they overlie, but they are locally important ecological, agricultural, commercial, and recreational resources. Talus, a result of rockfall at the base of steep bedrock (primarily trap rock) cliffs, provides a cool damp ecological niche. Beach, marsh and swamp deposits are key ecological elements of coastal and poorly drained inland settings. Deposits of floodplain alluvium are largely composed of sands, gravels and silts that have been reworked from glacial deposits and mixed with organic matter which increases their fertility. Despite their flood-prone nature, low, flat, fertile floodplains have historically been attractive for agricultural uses and development related to water-dependant commerce.



DATA SOURCES

SURFICIAL MATERIALS DATA – Surficial Materials shown on this map are from the Surficial Material Poly dataset which contains polygon data intended to be used at 1:24,000 scale. Based on Connecticut Surficial Materials digital data published in 1995 by the Connecticut Department of Environmental Protection, in cooperation with the U.S. Geological Survey. These data were digitized from the 1:24,000-scale compilation sheets prepared for the statewide Surficial Materials Map of Connecticut, (Stone, J.R., Schafer, J.P., London, E.H. and Thompson, W.B., 1992, U.S. Geological Survey special map, 2 sheets, scale 1:125,000).

BASE MAP DATA - Based on data originally from 1:24,000-scale USGS 7.5 minute topographic quadrangle maps published between 1969 and 1992. It includes political boundaries, railroads, airports, hydrography, geographic names and geographic places. Streets and street names are from Tele Atlas® copyrighted data. Base map information is neither current nor complete.

RELATED INFORMATION

This map is intended to be printed at its original dimensions in order to maintain the 1:24,000 scale (1 inch = 2000 feet).

QUATERNARY GEOLOGY AND SURFICIAL MATERIALS DATA - 1:24,000-scale digital spatial data of Connecticut Quaternary Geology and Surficial Materials combined into one dataset, published by the Connecticut Department of Environmental Protection, in cooperation with the U.S. Geological Survey. These data were digitized from the 1:24,000-scale compilation sheets prepared for both the Surficial Materials Map of Connecticut, Stone and others, 1992, 1:125,000 and the Quaternary Geologic Map of Connecticut and Long Island Sound Basin, Stone and others, 2005, 1:125,000.

OTHER GEOLOGIC MAPS - This map is also available for individual USGS topographic quadrangles of Connecticut. Other bedrock, surficial, and quaternary (glacial) geology quadrangle maps and reports published by the Connecticut Geological and Natural History Survey, USGS, and others are also available from CT DEP.

MAPS AND DIGITAL DATA - Go to the CT ECO website for this map and a variety of others. Go to the CT DEP website for the digital spatial data shown on this map.

1 0.5 0 1 Miles

1000 0 1000 2000 3000 4000 5000 6000 7000 Feet

1 0.5 0 1 Kilometers

SCALE 1:24,000 (1 inch = 2000 feet) when map is printed at original size

MAP LOCATION

State Plane Coordinate System of 1983, Zone 3526
Lambert Conformal Conic Projection
North American Datum of 1983

STATE OF CONNECTICUT
DEPARTMENT OF
ENVIRONMENTAL PROTECTION
79 Elm Street
Hartford, CT 06106-5127

Map created by CT DEP
August 2009

Map is not colorfast
Protect from light and moisture

USGS
science for a changing world

Water Quality Classification Map

WATER QUALITY CLASSIFICATIONS
GROTON, CT

SURFACE WATER QUALITY CLASSES

A	A
AA	AA
B, B*	B, B*
SA	SA
SB	SB

NOTES:
Surface Water Classifications beginning with S refer to Coastal and Marine Surface Water.
B* is a subset of Class B where no direct wastewater discharges are allowed other than those consistent with Class AA, A and SA surface waters.

GROUND WATER QUALITY CLASSES

GA (white background)
GAA, GAAs
GA, GAA may not meet current standards
GB
GC

Area of Contribution to Public Supply Well

Final Aquifer Protection Area (Level A)
Major Basin Boundary

EXPLANATION

WATER QUALITY CLASSIFICATIONS (WQC) MAPS are one of the elements of the Water Quality Standards (WQS) for the State of Connecticut. The WQS are a part of Connecticut's clean water program and are essential for protecting and improving water quality. The WQS follow the principles of Connecticut's Clean Water Act which is in Chapter 446K of the Connecticut General Statutes. The WQS provide policy guidance in many areas, for example decisions on acceptable discharges to water resources, siting of landfills, remediation or prioritization of municipal sewerage system projects. The first two elements of the WQS are the Standards, which set an overall policy for management of water quality, and the Criteria, which are descriptive and numerical standards that describe the allowable parameters and goals for various water quality classifications. A discussion of these two elements is found in the Water Quality Standards document available on the CT DEEP website. The third element is the Classifications and the Water Quality Classification Maps which show the Classification assigned to each surface and groundwater resource throughout the State. The WQS are adopted using a public participation process. The WQC maps are also adopted using a public participation process but go through hearings separately from the Standards and Criteria hearings. Revision and adoption of the WQC data occurs in accordance with the public participation procedures contained in Section 22a-426 of the Connecticut General Statutes. Ground WQC is subject to Connecticut regulation and changes must be reviewed and adopted. All changes to the Surface WQC require an adoption process which is subject to federal review and approval in addition to CT regulation. The adoption dates for the WQC by major drainage basin are: Housatonic River, Hudson River and Southwest Coastal Basins - March 1999; Connecticut River and South Central Coastal Basins - February 1993; Thames River, Pawcatuck River and Southeast Coastal Basins - December 1986. Surface Water Classifications do not change after the adoption date until the next major revision. Ground Water Classifications may change after the adoption date under specific circumstances. The map may have more than one WQC adoption date because a town may be in more than one major drainage basin.

SURFACE WATERS in Connecticut are divided into freshwater classified as AA, A, B or B* and saline waters classified as SA or SB. Class AA designated uses are existing or proposed drinking water supplies; habitat for fish and other aquatic life and wildlife; recreation; and water supply for industry and agriculture. Class A designated uses are habitat for fish and other aquatic life and wildlife; potential drinking water supplies; recreation; navigation; and water supply for industry and agriculture. Class SA designated uses are habitat for marine fish, other aquatic life and wildlife; shellfish harvesting for direct human consumption; recreation; industrial water supply; and navigation. Class B designated uses are habitat for fish and aquatic life and wildlife; recreation; navigation; and industrial and agricultural water supply. Class B*, applicable to Candlewood Lake, is a subset of Class B and is identical in all ways to the designated uses, criteria and standards for Class B waters except for the restriction on direct discharges. Class SB designated uses are habitat for marine fish and aquatic life and wildlife; commercial shellfish harvesting; recreation; industrial water supply; and navigation.

Surface waters which are not specifically classified shall be considered as Class A or Class AA. Surface waters in GA ground water areas are assumed Class A or Class SA unless otherwise indicated. Surface waters in GAA ground water areas are assumed Class AA unless otherwise indicated.

On the WQC map a surface water quality goal of A is represented by blue colored water bodies. Surface water quality goal of AA is represented by purple colored water bodies. Surface water quality goal of B is represented by gold colored water bodies.

GROUND WATERS in Connecticut are classified as GAA, GA, GB and GC. Class GAA designated uses are existing or potential public supply of water suitable for drinking without treatment and baseflow for hydraulically-connected surface water bodies. The Class GAAs is a subclass of GAA for ground water that is tributary to a public water supply reservoir. The area of contribution to a public water supply well is represented by a 500-foot radius around the well and is assumed to be Class GAA unless otherwise classified. Class GA designated uses are existing private and potential public or private supplies of water suitable for drinking without treatment and baseflow for hydraulically-connected surface water bodies. All ground waters not specifically classified are considered as Class GA. Class GB designated uses are industrial process water and cooling waters and baseflow for hydraulically-connected water bodies and is presumed not suitable for human consumption without treatment. Class GC designated uses are assimilation of discharges authorized by the Commissioner pursuant to Section 22a-430 of the General Statutes.

On the WQC map GA is represented by white colored land areas. Class GAA and class GAAs are represented by blue colored land areas. The area of contribution to a public water supply well is shown by a blue cross-hatch overprint. A notation of GAA followed by a state abbreviation indicates a watershed that contributes to the public water supply for a state other than Connecticut. Class GA or Class GAA areas that currently may not be meeting the GA or GAA standards are represented on the WQC maps by tan colored land areas. Class GB is represented by green colored land areas. Class GC is represented by magenta colored land areas.

FINAL AQUIFER PROTECTION AREAS (Level A) are included on the WQC maps for informational purposes. These areas are anticipated to be reclassified GAA during the next major basin updates, subject to public participation. The Aquifer Protection Program helps protect Connecticut's public drinking water resources by delineating aquifer protection areas (also called wellhead protection areas) for public supply wells and establishing land use regulations within these areas. These areas represent the land area contributing ground water to active public water supply wells or well fields that serve more than 1000 people and are set in sand and gravel aquifers (stratified drift deposits).

DATA SOURCES

WATER QUALITY CLASSIFICATIONS DATA – Water quality classifications shown on this map are based on information from the following digital spatial datasets that are typically shown together – Ground Water Quality Classifications Poly, Surface Water Quality Classifications Line, and Surface Water Quality Classifications Poly. The map legend above reflects the content of these three data sources. These WQC data were initially compiled on 1:24,000-scale 7.5 minute USGS topographic quadrangle maps and later digitized at 1:24,000 scale. For example, the Surface Water Quality Classifications Line and Surface Water Quality Classifications Poly digital data assigns surface water quality classifications to water bodies such as rivers, streams, reservoirs, lakes, ponds and coves found in 1:24,000-scale hydrography data available from CT DEEP. The hydrography may not include all the waterbodies in Connecticut. The Ground Water Quality Classifications Poly data assigns ground water quality classifications, at 1:24,000 scale, to the remaining land areas in Connecticut.

AQUIFER PROTECTION AREA DATA – Aquifer Protection Areas shown on this map are from the Aquifer Protection Area digital dataset which contains polygon data intended to be used at 1:24,000 scale. The dataset contains regulated areas classified as Level A Aquifer Protection Area (Final) and Level B Aquifer Protection Area (Preliminary). The Level B areas are not shown on the WQC maps. The data was collected from 1991 to the present and is actively updated as Final area mapping replaces earlier Preliminary areas. The Aquifer Protection Areas are delineated by the individual water companies owning the well fields and submitted to the CT DEEP for approval. Preliminary mapping provides a general estimate of the area contributing ground water to the well field. Final mapping is based on extensive, site-specific, detailed modeling of the ground water flow system. CT DEEP may adjust Final area boundaries to be consistent with 1:24,000 scale topography and base map data where appropriate during the approval process.

MAJOR DRAINAGE BASIN DATA – Major drainage basins shown on this map are from Major Basin Line data developed by CT DEEP and intended to be used at 1:24,000 scale.

BASE MAP DATA - Based on data originally from 1:24,000-scale USGS 7.5 minute topographic quadrangle maps published between 1969 and 1992. It includes political boundaries, railroads, airports, hydrography, geographic names and geographic places. Streets and street names are from Tele Atlas® copyrighted data. Base map information is neither current nor complete.

RELATED INFORMATION
This map is intended to be printed at its original dimensions in order to maintain the 1:24,000 scale (1 inch = 2000 feet).
WATER QUALITY STANDARDS - Go to the CT DEEP website for a summary and the full text of the "Water Quality Standards" and for other information on water quality.
AQUIFER PROTECTION AREAS - Go to the CT DEEP website for more information.

ADOPTED DATES

Water Quality Standards
February 25, 2011

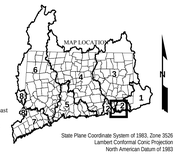
Thames River, Pawcatuck River and Southeast Coastal Basins: December 1986

Connecticut River and South Central Coastal Basins: February 1993

Housatonic River, Hudson River and Southwest Coastal Basins: March 1999

MAJOR BASINS

1 Pawcatuck
2 Southeast Coast
3 Thames
4 Connecticut
5 South Central Coast
6 Housatonic
7 Southwest Coast
8 Hudson



State Plane Coordinate System of 1983, Zone 3526
Lambert Conformal Conic Projection
North American Datum of 1983

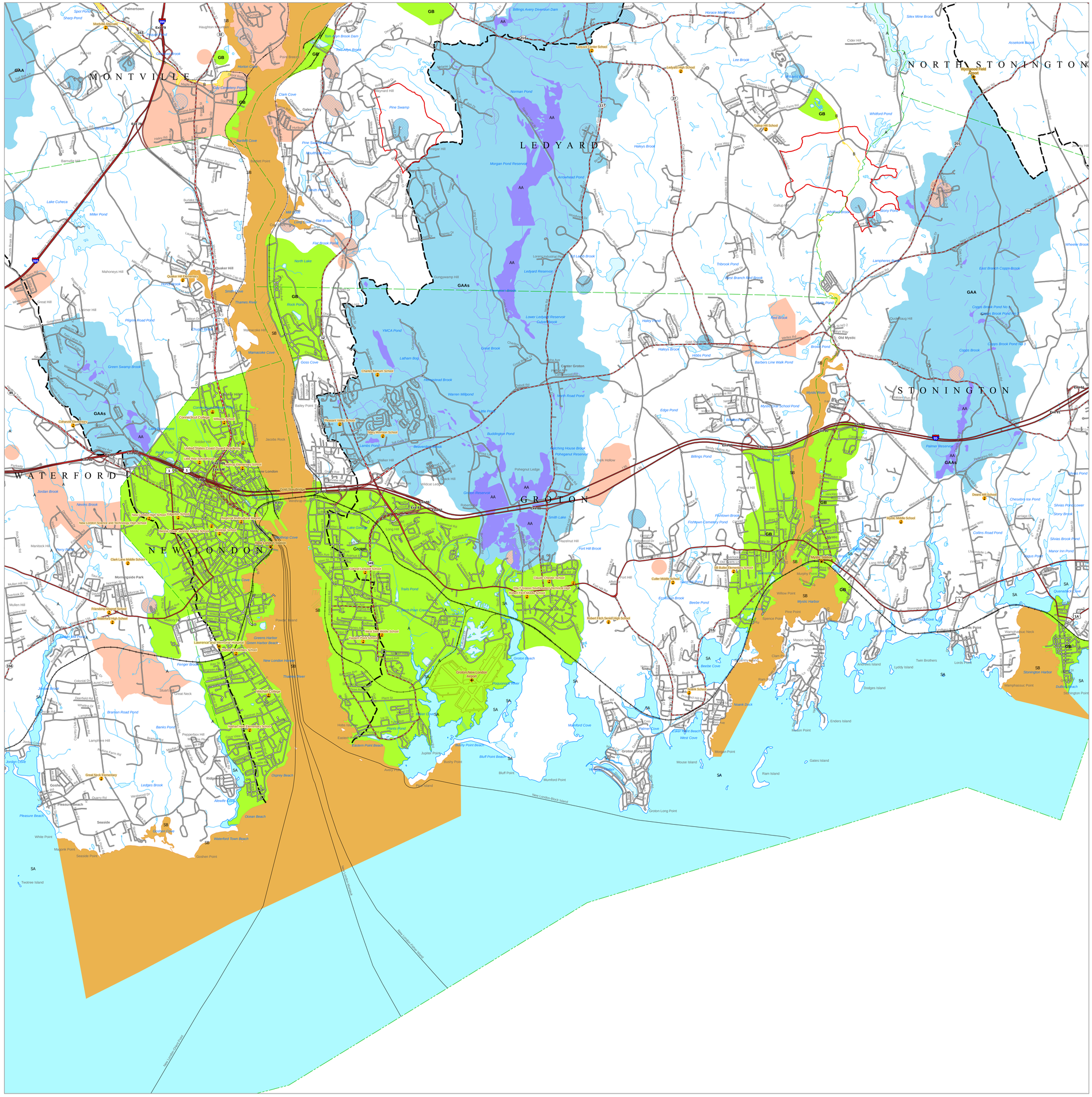
1 0.5 0 1 Miles
1000 0 1000 2000 3000 4000 5000 6000 7000 Feet
1 0.5 0 1 Kilometers

SCALE 1:24,000 (1 inch = 2000 feet) when map is printed at original size

STATE OF CONNECTICUT
DEPARTMENT OF
ENERGY & ENVIRONMENTAL PROTECTION
79 Elm Street
Hartford, CT 06106-5127

Map created by CT DEEP
August 2012

Map is not colorfast
Protect from light and moisture



APPENDIX H

Records Maintained at the Site

FORM FUR STO 200

INTERDEPARTMENT MAIL

DATE March 24, 1959

TO	DEPARTMENT
Mr. E. Vescovi, Constr. Supervisor	Public Works
FROM	**DEPARTMENT**
J. E. Duffy, Chief, Construction	Public Works

SUBJECT

Re: Project BI-J-37, Mystic Oral School, Physical Education Building, Mystic, Ct.

Attached hereto please find photostatic prints of three (3) different partial maps which show different locations for the existing water services at the Mystic Oral School. These maps are; (1) Sheet F-8, of contract drawing for Project J-1 and J-2 and dated, 1938; (2) Topographical map prepared by Mr. Malloy in 1958; (3) Aerial map of the site.

Please have the contractor do whatever exploratory digging is necessary to determine the exact location and elevation of the existing water line.

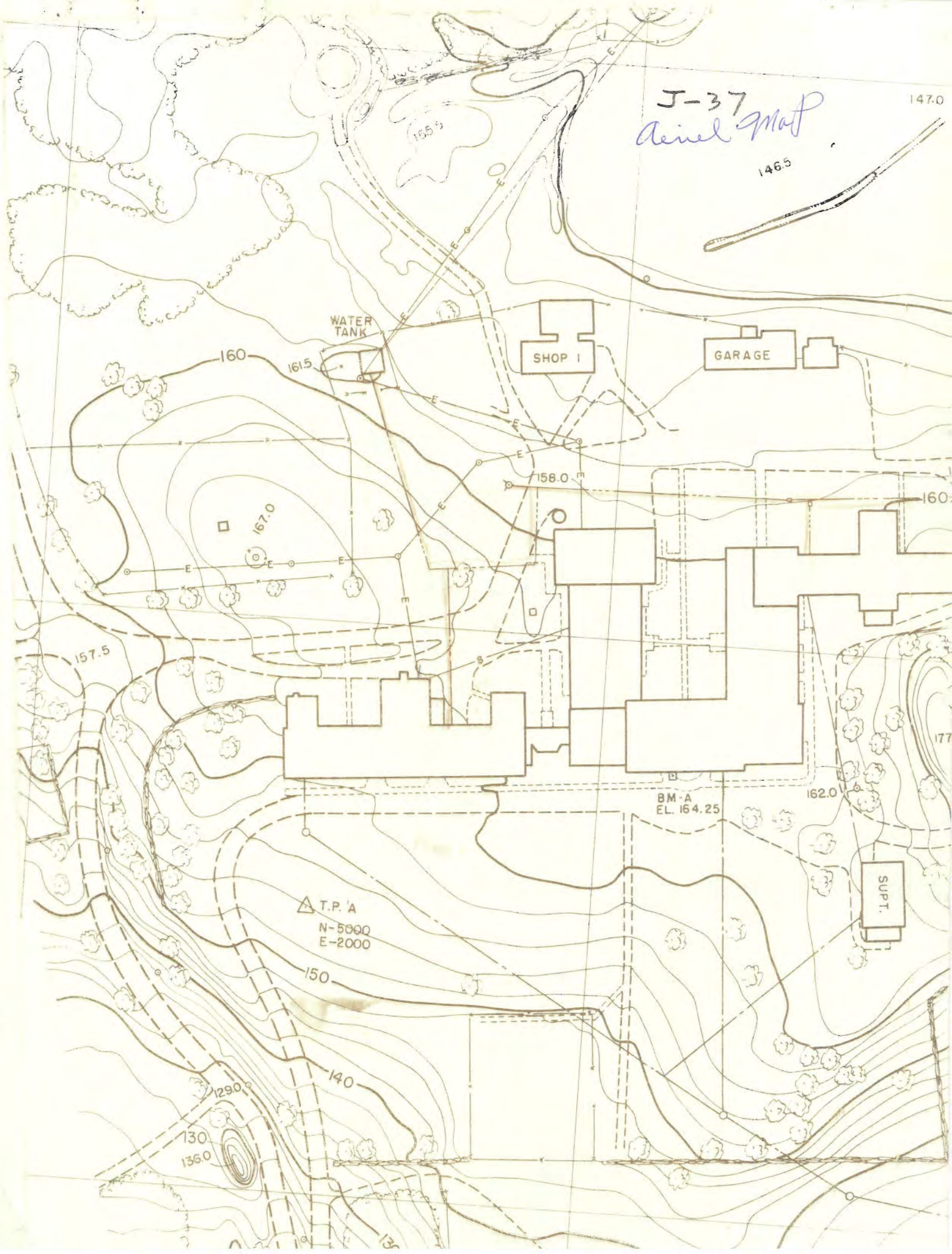
This information is to be noted on a report to this office with a copy to Mr. Kincaid.

J. E. Duffy, Chief
Construction Section

JED:LNS:wt

cc: Mr. Kincaid, Arch't
Rice
S. W. Allen
C. O. File, w/enc
File

Enc.


J-37
Aerial Map
147.0
146.5
155.5
WATER TANK
161.5
160
SHOP I
GARAGE
158.0
160
167.0
157.5
177
BM-A
EL. 164.25
162.0
SUPT.
T.P. A
N-5000
E-2000
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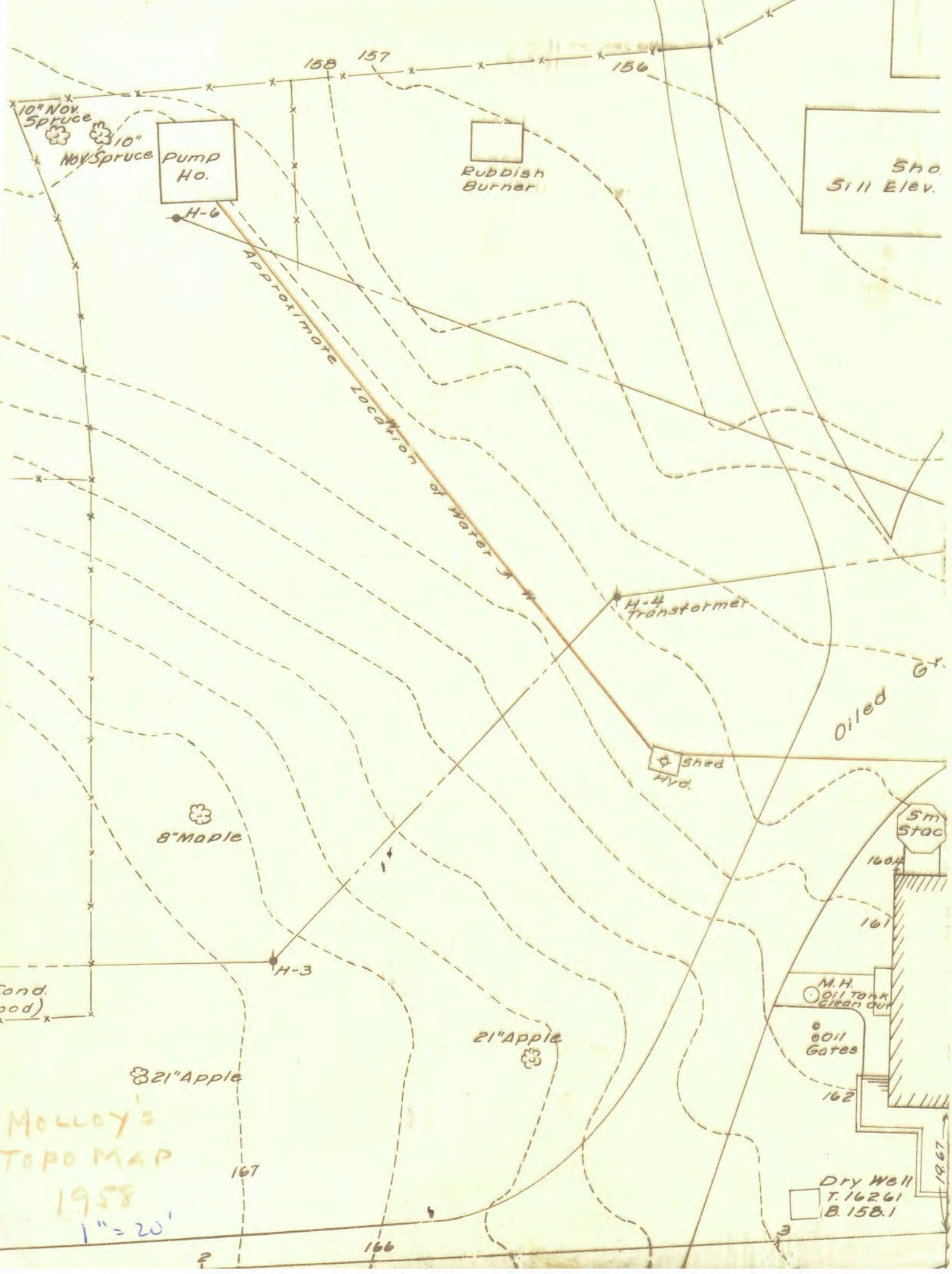
140
129.0
130
136.0


158
157
156
10" Nor. Spruce
10" Nor. Spruce
Pump Ho.
Rubbish Burner
Sho
Sill Elev.
H-6
Approximate Location of Water
H-4 Transformer
Oiled
Shed
Hyd.
8" Maple
Sm Stac
160
161
H-3
M.H.
Oil Tank Clean out
Oil Gates
21" Apple
21" Apple
162
167
Dry Well
T. 162.61
B. 158.1
166
MOLLOY'S
TOPO MAP
1958
1" = 20'

PROJ. COORD. DEC 1 9 1990

FUSS&O'NEILL inc
consulting engineers

December 18, 1990

Mr. James Koester
Project Coordinator
Department of Public Works
165 Capitol Avenue, Room 470
Hartford, CT 06106

RE: PCB Project - Mystic Educational Center
DPW Project No. BI-2B-816-A6

Dear Mr. Koester:

Fuss & O'Neill, Inc. has investigated transformers at the Mystic Educational Center by visitation on October 15, 1990 and sampling on November 5, 1990. The results of the investigation disclose there are nine (9) transformers at the site. Five (5) transformers are dry type (Pratt Hall), three (3) tested at less than 500 PPM and one (1) tested at 647 PPM (Whipple Building; Fuss & O'Neill Control #34290101202; transformer Serial #226966-65P. This latter transformer must be considered for remediation. No spills were observed at the facility.

Discussions with facility and DPW electrical engineering personnel disclosed that improvements are not imminent at the facility.

The enclosed analysis by van Zelm, Heywood and Shadford concludes with a recommendation to retrofill the transformer since the transformer has a number of years of productive life remaining. We concur with the van Zelm recommendation to retrofill the transformer to the point where the PCB concentration is less than the level required to remediate spills (25 PPM) and at a level to be classified as a non PCB transformer (50 PPM). It is expected that the transformer will have to be drained and refilled twice to achieve this level. The estimated initial capital cost to perform this work is $11,100.00 while the cost including present worth is $14,600.00.

Corres. 90-403
1213A90RAR2

146 HARTFORD RD. / MANCHESTER, CT 06040 / TEL: (203) 646-2469, FAX: (203) 643-6313

SOLID WASTE MANAGEMENT • WASTE WATER SYSTEMS • EROSION CONTROL • WATER SYSTEMS • HYDROLOGY and DRAINAGE SYSTEMS • SITE PLANNING
HIGHWAYS and BRIDGES • SURVEYING • LANDSCAPE ARCHITECTURE • TRANSPORTATION and TRAFFIC • PUBLIC WORKS MANAGEMENT • HYDROGEOLOGY
RECYCLED PAPER

FUSS&O'NEILL

Please review this information and contact us if you require any additional information. Fuss & O'Neill and van Zelm, Heywood, & Shadford representatives are available to discuss this at any time. We are also prepared to start design activities upon your authorization.

Very truly yours,

Ronald A. Ries,
Senior Engineer

/bmw

Enclosures

cc: Tim Desroches - Mystic Educational Center
Gary Gallucci - Department of Public Works
Charles Billmyer - van Zelm, Heywood and Shadford
Paula Morse - van Zelm, Heywood and Shadford
Robert Elwood - van Zelm, Heywood and Shadford
William Ginter
James Whitehouse

Corres. 90-403
1213A90RAR2

EVALUATION OF EXISTING PCB TRANSFORMERS AT THE MYSTIC EDUCATIONAL CENTER

I. PRELIMINARY SITE INVESTIGATION

The project team performed a field investigation at the Mystic Educational Center on November 27, 1990 to determine the extent of PCB transformer[1] installations at the facility. One transformer was discovered to be a PCB transformer and it contained mineral oil dielectric with a PCB concentration of approximately 630 ppm. This transformer was a 225 KVA pad-mounted unit with a primary voltage of 13.2 KV and a secondary voltage of 120/208 V.

II. SUMMARY OF OPTIONS FOR COMPLIANCE WITH FEDERAL PCB REGULATIONS

Evaluation of the various options must include consideration of both the direct and indirect costs. The estimates discussed below include such indirect costs related to process operation, impact on transformer lifespan, and testing. The prices and delivery periods quoted are based on current market conditions, and future values may be higher or longer.

Option A: Electrical Protection Measures: Federal regulations[2] allow the continued use of a PCB transformer when it is primary radial fed, has a lower secondary voltage (208Y/120 or 240/120 V), and is equipped with enhanced electrical protection which detects high current faults and provides for complete deenergization of the transformer (within several hundredths of a second) before transformer rupture occurs.

The transformer is single radial fed and does has a secondary voltage of 208/120, but it does not have the required electrical protection. In order to meet the regulations for this type of protection, a new primary load-break fusible switch with motor operators and single phasing protection would have to be installed in lieu of the existing switch. The fuse size would have to be closely coordinated with the transformer inrush current and the available fault current in order to comply with the regulations.

The new switch would have to be an outdoor unit, with a separate (new) concrete pad underneath; there is insufficient space to mount the switch on the existing transformer pad.

---

[1]Transformers containing more than 500 ppm polychlorinated biphenyl (PCB).
[2]CFR 761.30(a)(1)(iv)

A disadvantage of this option is that it does not eliminate the other problems associated with PCB transformers and would only defer the disposal of the PCB transformer. The risk, however low, of toxic contamination due to a PCB fluid leak or a fire[3] would remain as long as the transformer is still on-site.

We estimate the average remaining life of the existing transformer as an additional fifteen years maximum, at which time it will have to be disposed of, in accordance with the regulations. The cost of this future disposal is included below in order to make an accurate assessment of the cost of this option.

Estimated Cost of Option A, Electrical Protection Measures for the Existing PCB Transformer:

Initial Capital Costs	
New switch, pad and installation	$ 22,200
Engineering fees and contingencies	6,700
Subtotal of Initial Capital Costs	$ 28,900
Indirect Costs	
Present value of future disposal of transformer	$ 1,800
Adjustment for transformer life	3,500
Subtotal of Indirect Costs	$ 5,300
Option A Total Cost for PCB Transformer	$ 34,200

The cost shown under "adjustment for transformer life" is the present adjusted cost of replacing the existing transformer in fifteen years, as compared to replacing the transformer now (and realizing thirty years of service). The salvage value of the replacement transformer in fifteen years is negligible for purposes of this analysis.

This option also poses a delivery time restriction due to the long-lead time for the new primary switches. The time requirements for Option A are:

Design and Engineering	2 weeks
Bidding Period	5 weeks
Switch Delivery	22 weeks
Installation of Switches	4 weeks
Total	33 weeks

[3]Combustion of PCBs creates toxic dioxins and furans.

Option B: Reclassification: Federal regulations[4] allow a PCB transformer to be converted to PCB-contaminated or non-PCB status. For a nameplate[5] PCB transformer, this conversion process involves draining the PCB liquid from the transformer, refilling the transformer with a cleaning fluid, extracting PCBs (by chemical mass transfer) from the transformer core and coils using the cleaning fluid as a medium, and demonstrating the new PCB ppm levels after a three-month period of in-service operation.

For a mineral oil transformer with PCB concentrations slightly over 500 ppm, the transformer can be drained, flushed and refilled instead of undergoing the mass transfer extraction process. The initial drain and refill should reduce the PCB concentration down to PCB-contaminated status, and a second drain and refill should reduce it to non-PCB status.

Estimated Cost of Option B, Reclassification of the Existing PCB Transformer:

Initial Capital Costs	
Drain, flush & refill process	$ 7,100
Cost of 50°C testing & in-service period	1,400
Engineering fees and contingencies	2,600
Subtotal of Initial Capital Costs	$11,100
Indirect Costs	
Adjustment for transformer life	$ 3,500
Option B Total for PCB Transformer	$14,600

The cost shown above as "drain, flush & refill process" is the contractor's total fee and includes draining and disposing of PCB fluids, flushing the transformer, and new dielectric fluids. The cost for the 50°C testing includes costs for temperature monitoring equipment, personnel, and insulating or heating blankets.

Note that there SHOULD NOT be any future cost for PCB disposal, since the transformer should be reclassified to non-PCB status under this option[6].

[4] CFR 761.30(a)(2)(v)

[5] Certain transformers were deliberately filled with a PCB dielectric (such as Askarel) at the point of manufacture. These transformers have very high PCB concentration levels. These transformers can be identified by the dielectric listed on the transformer nameplate, so we have called them "nameplate PCB transformers". Other PCB transformers generally have less severe PCB concentrations.

[6] If the transformers are reclassified to PCB-contaminated status, they could be continued in use but would still be subject to PCB regulations relating to storage, documentation, disposal and service.

The time requirements for Option B are:

Specifications and Engineering	2 weeks
Bidding Period	5 weeks
Drain & Fill Process	3 weeks
Reclassification Testing	13 weeks
Total	23 weeks

Option C: Removal of PCB Transformer: This option would provide a new transformer in lieu of the existing PCB transformer, by contracting with a qualified turn-key PCB transformer replacement firm to remove and properly dispose of the existing transformer. A new dry-type or liquid-filled transformer would then be installed in place of the existing unit. All this must be accomplished in a manner that enables continued operation of the Mystic site.

The process of disposing of the existing transformer would involve draining the PCB liquid from the transformer, either in the field or at a disposal facility[7], shipping the contaminated liquid to an incineration facility, and disposing of the transformer shell (with core and coils intact) either at a landfill facility or at a special cleaning/scrapping facility[8]. The problem with landfilling the transformer shell is that the owner (i.e., the State) is still potentially legally responsible for potential future contamination at the landfill site.

Estimated Cost of Option C1, Replacement & Landfill Disposal of the Existing PCB Transformer:

Initial Capital Costs	
New liquid-filled or dry-type transformer	$ 8,600
Removal of existing transformer	1,000
Installation of new transformer	2,000
Landfill disposal of existing transformer	3,100
Engineering fee and contingencies	4,400
Subtotal of Initial Capital Costs	$ 19,100

Indirect Costs
None

[7]If the transformers are not leaking and can be easily removed from the site, they are usually shipped with the PCB dielectric in them.

[8]The cleaning/scrapping facility provides certification of total destruction of the transformers.

Estimated Cost of Option C2, Replacement & Scrap Process Disposal of the Existing PCB Transformer:

Initial Capital Costs	
New liquid-filled or dry-type transformer	$ 8,600
Removal of existing transformer	1,000
Installation of new transformer	2,000
Process & salvage existing transformer	4,700
Engineering fee and contingencies	4,900
Subtotal of Initial Capital Costs	$ 21,200

Indirect Costs
None

The estimated schedule for these options (C1, C2) is:

Design and Engineering	3 weeks
Bidding Period	5 weeks
Transformer Delivery	15 weeks
Installation	6 weeks
Total	29 weeks

III. SUMMARY AND CONCLUSIONS

Installation of a new primary switch, Option A, does not eliminate PCBs or the dangers and maintenance administration problems associated with PCB units. Although this option appears to have the lowest "initial" cost, it is not the most economical because there will be additional costs incurred over the remaining life of the transformer.

Reclassifying the existing transformer, Option B, should eliminate the safety concerns associated with PCBs by reducing the PCB level to values classified as "non-PCB" under the current regulations[9]. This option is also the most economical even with both direct and indirect costs included.

Replacing the existing transformer, Option C, would be more desirable if the existing transformer were filled with "pure" PCB dielectric, because Option B would require a more expensive reclassification processing in that case. The salvage option (Option C2) would totally relieve the State of any possible future liability, once the transformer destruction process is completed. Although disposing of the

[9]Stricter Federal regulations may be promulgated in the future, revising the classification levels for lower PCB concentrations.

transformer in a landfill facility is less expensive than the salvage/destruction method, it does not relieve the State of potential future liability[10].

Note: If the transformer does not achieve "non-PCB" status (i.e., if reclassification reaches only the "PCB-contaminated" status) – which would be typical of a single drain, flush and refill process – the State Agency will have the continuing responsibility for adhering to the regulations pertaining to record keeping, inspections, leak notification and cleanup, etc., as well as proper disposal of the unit when it is finally removed from service. The issue for review here would be whether the State/Agency is willing to accept the continuing responsibility for a PCB-contaminated unit in order to reduce the initial capital outlay significantly.

Recommendation for PCB Transformer: We recommend Option B, reclassifying the transformer as the most economical method. This should include repeating the drain and refill process as needed to achieve a PCB concentration below 25 ppm.

[10]Current federal laws make all "generators" of wastes stored in a landfill facility liable together, for any future contamination from that landfill.

F+O State of Connecticut - Mystic PCB options - 90103.07 December 13, 1990

SUMMARY OF PARAMETERS USED:

Average inflation rate (i)	5.00%
Present worth interest rate (m)	8.00%
Cost of energy ($/kwh)	$.10
Cost of reclassifying transformers ($/gal)	$140.00
Cost* of Mineral Oil drain, flush and fill ($/gal)	$75.00
Cost** of landfill disposal of transformers ($/lb)	$.65
Cost** of salvage processing of transformers ($/lb	$1.00
Remaining life of transformers (years)	15
Total life of transformers (years)	30

*Including two drain-fill processes
**Including cost of incinerating PCB fluid

SUMMARY OF PCB TRANSFORMER DATA

Transformer Location	# Xfmrs	Phase	KVA	Type of Installation	Conn.	Weight (lbs.)	Gallons of PCB
Whipple	1	3	225	pad	120/208Y	4,700	94
Total	1		225			4,700	94

F+O State of Connecticut - Mystic PCB options - 90103.07 December 13, 1990

SUMMARY OF OPTION A COSTS AND CALCULATIONS

Option A - PCB Transformers

Quantity	Description	Unit Cost	Total Cost
1	NEMA 3R fusible load-break switch	$17,000	$17,000
1	Installation of primary switch	$2,500	$2,500
3	New fuses	$900	$2,700
1	New concrete switch pad	$1,000	$1,000
	TOTAL	$20,400	$22,200

Present cost of salvage disposing of transformers:

= Salvage cost ($/lb) x Transformer weight (lbs)

= $1.00 x 4,700

= $4,700.00

Present Worth of disposing of the existing transformers in "n" years:

= (Present Cost of Disposing of PCB Transformers) x (1+m)EXP(-n)

where m=interest rate and n= 15.00

= $5,700 (from Option C calculations) x (1+m)EXP(-n)

= $1,797

= ~ $1,800

Adjustment for transformer life:

= (current transformer cost) x (1+i)EXP(n) x (used life of ex./total life)

divided by (1+m)EXP(n)

where i=inflation rate and m=present worth interest rate

= $10,600 x (1+i)EXP(n) x .50 divided by (1+m)EXP(n)

= $3,473

= ~ $3,500

SUMMARY OF OPTION B COSTS AND CALCULATIONS

Option B - PCB Transformers

Quantity	Description	Unit Cost	Total Cost
94	Transformer gallons to be Drained, Flushed and Fil	$75	$7,100
1	Cost for 50°C Testing	$1,400	$1,400
	TOTAL		$8,500

Adjustment for transformer life:

= (current transformer cost) x (1+i)EXP(n) x (used life of ex./total life)
divided by (1+m)EXP(n)
where i=inflation rate and m=present worth interest rate

= $10,600 x (1+i)EXP(n) x .50 divided by (1+m)EXP(n)

= $3,473

= ~ $3,500

F+O State of Connecticut - Mystic PCB options - 90103.07 December 13, 1990

SUMMARY OF OPTION C COSTS AND CALCULATIONS

Option C1 PCB Transformers	Price	Total	Ave.Unit Cost
1. New transformer	$8,600		
2. Installation of new transformers	$2,000		
Subtotal for new transformers cost		$10,600	
3. Removal of existing transformers	$1,000		
4. Landfill of transformers (lbs) @ $.65	$3,100		
Subtotal for removal/disposal of ex. transformers		$4,100	
Total - Landfill option		$14,700	$14,700

Option C2 PCB Transformers			
1. New transformers	$8,600		
2. Installation of new transformers	$2,000		
Subtotal for new transformers cost		$10,600	
3. Removal of existing transformers	$1,000		
4. Scrapping of transformers (lbs) @ $1.00	$4,700		
Subtotal for removal/disposal of ex. transformers		$5,700	
Total - Scrapping option		$16,300	$16,300

FUSS&O'NEILL inc
consulting engineers

December 12, 1991

Mr. Tim Desroches, Plant Manager
Mystic Education Center
240 Oral School Road
Mystic, CT 06355

RE: DPW Statewide PCB Compliance, Project BI-2B-816,
Manifest No. NHF0001569

Dear Mr. Desroches:

This letter is to confirm that the referenced manifest was prepared to permit shipment of PCB sampling waste materials generated at your facility by Fuss & O'Neill, Inc. as part of the Statewide PCB transformer compliance program. In keeping with Federal PCB regulations, Fuss & O'Neill, Inc. contacted the commercial storer, Jetline, located in Dover, New Hampshire, on May 9, 1991 to inquire if the signed copy of the manifest (confirming receipt of materials) was mailed to your facility. Mr. Charles Dearborn of Jetline, who signed the manifest, subsequently confirmed materials were received.

It is our opinion that our contact with the storage facility was confirmation that the waste materials were received by Jetline and should satisfy this regulatory requirement. Please attach this letter with copy 3 of the manifest (No. NH F0001569), and retain in your PCB files for three (3) years. Materials were received by the storer on 4/10/91; therefore, retain documents until 4/10/94 as required by the regulations.

Very truly yours,

Ronald A. Ries
Senior Engineer

RAR1203A91\90403
Corres.

146 HARTFORD RD. / MANCHESTER, CT 06040-5921 / TEL: (203) 646-2469, FAX: (203) 643-6313

SOLID WASTE MANAGEMENT • WASTE WATER SYSTEMS • EROSION CONTROL • WATER SYSTEMS • HYDROLOGY and DRAINAGE SYSTEMS • SITE PLANNING
HIGHWAYS and BRIDGES • SURVEYING • LANDSCAPE ARCHITECTURE • TRANSPORTATION and TRAFFIC • PUBLIC WORKS MANAGEMENT • HYDROGEOLOGY
RECYCLED PAPER

40-32634

NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES
WASTE MANAGEMENT DIVISION
Health and Human Services Building
6 Hazen Drive, Concord, NH 03301-6509
603-271-2921

FOR STATE USE ONLY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved OMB No. 2050-0039, Expires 9/30/91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CTD983869454 — Manifest Document No.: 01569
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but may be required by State Law.

3. Generator's Name and Mailing Address
Mystic Education Center
240 Oral School Rd., Mystic, CT 06355

4. Generator's Phone (203) 536-4221

A. State Manifest Document Number: NH F0001569

B. State Generator's ID (Location): same

5. Transporter 1 Company Name: Tri-S, INcorporated
6. US EPA ID Number: CTD016424210

C. State Transporter's ID: 3662A-CT

D. Transporter's Phone: 203-875-2110

7. Transporter 2 Company Name:
8. US EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address
Jet-Line Services Inc.
8 Progress Dr.
Dover, NH 03820

10. US EPA ID Number: NHD981211832

G. State Facility's ID Not Required: same

H. Facility's Phone: 603-749-5735

11. US Dot Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. (RQ) Hazardous Substance Solid NOS (Polychlorinated Biphenyls) ORM-E NA9188	01	DF	3	K	EPA / STATE CR01
b.					EPA / STATE
c.					EPA / STATE
d.					EPA / STATE

J. Additional Descriptions for Materials Listed Above
a. transformer oil and rags 630ppm PCB's
b. Accumulation start date: 11/5/90
c.
d.

K. Handling Codes for Wastes Listed Above

	Interim	Final		Interim	Final
a.		S01	c.		
b.			d.		

15. Special Handling Instructions and Additional Information
24 HR Emergency Response Phone# 203-875-2110

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR**, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: TIM DESROCHES — Signature: [signature] — Month Day Year: 4 9 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Driver Change only — Ray Morris Robert T Schute Jr — Signature: [signature] — Month Day Year: 04 09 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner, or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in **Item 19**.
Printed/Typed Name: CHARLES P DEARBORN JR. — Signature: [signature] — Month Day Year: 04 10 91

GENERATOR / TRANSPORTER / FACILITY

TO REPORT A SPILL, CONTACT: NATIONAL EMERGENCY RESPONSE CENTER (1-800-424-8802), THE N.H. DEPT. OF SAFETY (1-800-346-4009) AND THE NH WASTE MANAGEMENT DIVISION (271-2942). TO REPORT AN OIL SPILL: NHWSPCD (271-3440).

COPY 3: GENERATOR COMPLETED COPY

NH F0001569

EPA Form 8700-22 (Rev. 9-88) Previous Editions are Obsolete

COPY 3: GENERATOR COMPLETED COPY

ENSR

RECEIVED
JUL 13 1992
Ducci Electrical Contractors, Inc.

ENSR Operations
1700 Gateway Boulevard S.E.
Canton, Ohio 44707
216-452-0837

July 9, 1992

Mr. Tim DesRoches
Ducci Electrical
427 Goshen Road
Torrington CT 06790

RE: Confirmation of Receipt of PCB Contaminated Oil (Drums)

Dear Mr. DesRoches:

Please find attached a copy of Manifest # 01294 / CT B 0008094 for PCB contaminated oil received by ENSR Operations. To verify delivery of the waste shown on this manifest, please contact Mr. Kim Grandison, ENSR Waste Receiving Supervisor, at (216) 430-4466.

A Certificate of Disposal will be sent to you after the oil has been disposed using ENSR's EPA approved "PCBX" process. If you have any questions regarding this manifest, please call.

Sincerely,

ENSR Operations

Michele Mago

Michele Mago
Central Waste Management Group

Attmts.

Work Order File: # 3005
Job # #4480

cc: Larry Fox / ENSR Retrofill Division

EPHM-2 REV. 5/85

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Hazardous Waste MANIFEST SECTION, State Office Building, Hartford, CT 06106

PLEASE PRINT OR TYPE *(Form designed for use on elite (12-pitch) typewriter.)*

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. 4 0 C F R P A R T 7 6 1 | Manifest Document No. 0 1 2 9 4 | 2. Page 1 of 2 | Information in the shaded areas is not required by Federal law, but may be required by State law.

3. GENERATOR'S Name and Mailing Address
Ducci Electrical
427 Goshen Road
Torrington CT 06790

Site: Mystic Educational Center
Whipple Bldg.
Mystic CT

A. State Manifest Document Number: CT B 0008094

B. State Gen. ID: SAME

4. GENERATOR'S Phone (203) 536-4221

5. TRANSPORTER 1 Company Name: Hazmat Environmental Group, Inc.
6. US EPA ID Number: N Y D 9 8 0 7 6 9 9 4 7
C. State Tran. ID: PD1946 (NY)
D. Tran. Phone (216) 827-7200

7. TRANSPORTER 2 Company Name
8. US EPA ID Number
E. State Tran. ID
F. Tran. Phone ( )

9. DESIGNATED FACILITY Name and Site Address
ENSR Operations
1501 Raff Road SW
Canton OH 44710
10. US EPA ID Number: O H D 9 8 1 1 0 0 9 6 9
G. State Facility's ID
H. Facility's Phone (216) 477-3474

11. US DOT Description *(Including Proper Shipping Name, Hazard Class, and ID Number)*	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Hazardous substance, liquid, n.o.s., ORM-E, NA9188 (Polychlorinated Biphenyls) RQ 0.454 K	003	DM	00543	K	CR01
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. Oil

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. SPECIAL HANDLING Instructions and Additional Information mm 10-24
Job #4480 24 HOUR EMERGENCY CONTACT: SAM PANTUSO @ 216-452-0837
See attached continuation form for ENSR item #'s, storage dates, pcb/ppm and weights.
WO # 3005

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and all applicable State laws and regulations.

Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.

Printed/Typed Name: TIM DESROCHES | Signature: Tim Desroches | Date (Month Day Year): 063092

17. TRANSPORTER 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Timothy J. O'Hara | Signature: Timothy J. O'Hara | Date (Month Day Year): 063092

18. TRANSPORTER 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date (Month Day Year)

19. DISCREPANCY Indication Space
LINE 13A SHOULD READ 549K

20. FACILITY OWNER OR OPERATOR: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: TERRY MAY | Signature: Terry May | Date (Month Day Year): 07 10 29 92

IN THE EVENT OF A SPILL, CONTACT THE NATIONAL RESPONSE CENTER, U.S. COAST GUARD: 1-800-424-8802. FOR SPILLS WITHIN CONNECTICUT, CONTACT CT DEP - OIL AND CHEMICAL SPILLS AT (203) 566-3338.

GENERATOR | TRANSPORTER | FACILITY

COPY 3: GENERATOR COMPLETED COPY

CT B 0008094

EPA Form 8700-22 (Rev. 5-85) *Form Approved. OMB No. 2000-0404. Expires 7-31-86* Previous edition is obsolete.

COPY 3: GENERATOR COMPLETED COPY

ENSR

MANIFEST CONTINUATION FORM

MANIFEST NO. 01294/CT.B0008094

CUSTOMER Mystic Educational Center

TOTAL ITEMS SHIPPED 3

SITE ADDRESS

CONTACT NAME Tim DesRoches

Whipple Bldg.

PHONE 203-536-4221

Mystic CT

PREPARED BY Mike Bryan

NO.	MFST LINE ITEM abcd	ITEM SERIAL #	REMOVED FROM SERVICE DATE	ENSR WASTE CODE	PCB/ PPM	CONTENTS	KGS Pounds x 0.454
1	11a	0505920716-001	5-5-92	16	1047	PCB Oil	181
2	11a	0505920716-002	5-5-92	16	1047	PCB Oil	181
3	11a	0505920716-003	5-5-92	16	1047	PCB Oil	181
4							
5							
6							
7							
8							
9							
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24							

EPHM-2 REV. 8/86

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Hazardous Waste MANIFEST SECTION, State Office Building, Hartford, CT 06106

PLEASE PRINT OR TYPE *(Form designed for use on elite (12-pitch) typewriter.)*

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. 4 0 C F R P A R T 7 6 1 0 1 7 0 8 — Manifest Document No.

2. Page 1 of 2

Information in the shaded areas is not required by Federal law, but may be required by State law

3. GENERATOR'S Name and Mailing Address
MAILING: DUCCI ELECTRICAL
427 GOSHEN RD
TORRINGTON, CT 06790 PH#: 203-536-4221
SITE: MYSTIC EDUCATIONAL CENTER
240 ORAL SCHOOL ROAD
WHIPPLE BLDG
MYSTIC, CT 06355

4. GENERATOR'S Phone

A. State Manifest Document Number: CT B 0096308

B. State Gen. ID

5. TRANSPORTER 1 Company Name: HAZMAT ENVIRONMENTAL GROUP, INC

6. US EPA ID Number: N Y D 9 0 7 6 9 9 4 7

C. State Tran. ID: PA 7112 NY

D. Tran. Phone: (716) 827-7200

7. TRANSPORTER 2 Company Name

8. US EPA ID Number

E. State Tran. ID

F. Tran. Phone ( )

9. DESIGNATED FACILITY Name and Site Address
ENSR OPERATIONS
4160 PERIMETER DR
COLUMBUS, OH 43228

10. US EPA ID Number: O H D 9 8 1 9 6 0 1 2 3

G. State Facility's ID

H. Facility's Phone: (614) 275-4101

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
HAZARDOUS SUBSTANCE, LIQUID, N.O.S., ORM-E, NA9188 (POLYCHLORINATED BIPHENYLS) RQ 0.454 K	003	D.M.	004.52	K	CR01
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
a. MINERAL OIL

K. Handling Codes for Wastes Listed Above
a. S01/T08

15. SPECIAL HANDLING Instructions and Additional Information
JOB #600038 24 HOUR EMERGENCY RESPONSE @ 216-452-0837
SEE ATTACHED CONTINUATION FORM FOR ENSR ITEM #'S, STORAGE DATES AND WEIGHTS

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and all applicable State laws and regulations.

Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.

Printed/Typed Name: TIM DESROCHES — Signature: Tim Desroches — Date (Month Day Year): 022493

17. TRANSPORTER 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: GARY OSBORNE — Signature: Gary Osborne — Date (Month Day Year): 022493

18. TRANSPORTER 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: T — Signature: — Date (Month Day Year):

19. DISCREPANCY Indication space
I concur 022693

20. FACILITY OWNER OR OPERATOR: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Robert Sailer — Signature: — Date (Month Day Year): 022693

GENERATOR / TRANSPORTER / FACILITY

IN THE EVENT OF A SPILL CONTACT THE NATIONAL RESPONSE CENTER U.S. COAST GUARD 1-800-424-8802 FOR SPILLS WITHIN CONNECTICUT CONTACT CT DEP OIL AND CHEMICAL SPILLS AT (203) 566-3338

CT B 0096308

EPA Form 8700-22 (Rev. 8/88) Form Approved. OMB No. 2050-0039. Expires 9-30-88. Previous edition is obsolete.

COPY 3: GENERATOR COMPLETED COPY

ENSR

MANIFEST CONTINUATION FORM

PAGE 2 OF 2

MANIFEST NO. 01708

CUSTOMER Ducci Electric

TOTAL ITEMS SHIPPED 3

SITE ADDRESS Mystic Educational Cont

CONTACT NAME Tim Des Roches

240-ORAL School Rd Whipple Blvd

PHONE 203-536-4221

Mystic, CT 06355

PREPARED BY Jim Bates

NO.	MFST LINE ITEM abcd	UNIQUE IDENTIFYING #	DATE OF REMOVAL FROM SERVICE FOR DISPOSAL	ENSR WASTE CODE	PCB/ PPM	CONTENTS	KGS Pounds x 0.454
1	"	Hm-038-001	2 23 93	16 55-II T	58	oil	184 40
2	"	Hm-038-002	2 23 93	16 56-II T	58	mineral oil	1.8.1 40
3	"	Hm-038-003	2.23.93	16 55-H H	58	mineral oil	83.8
4							
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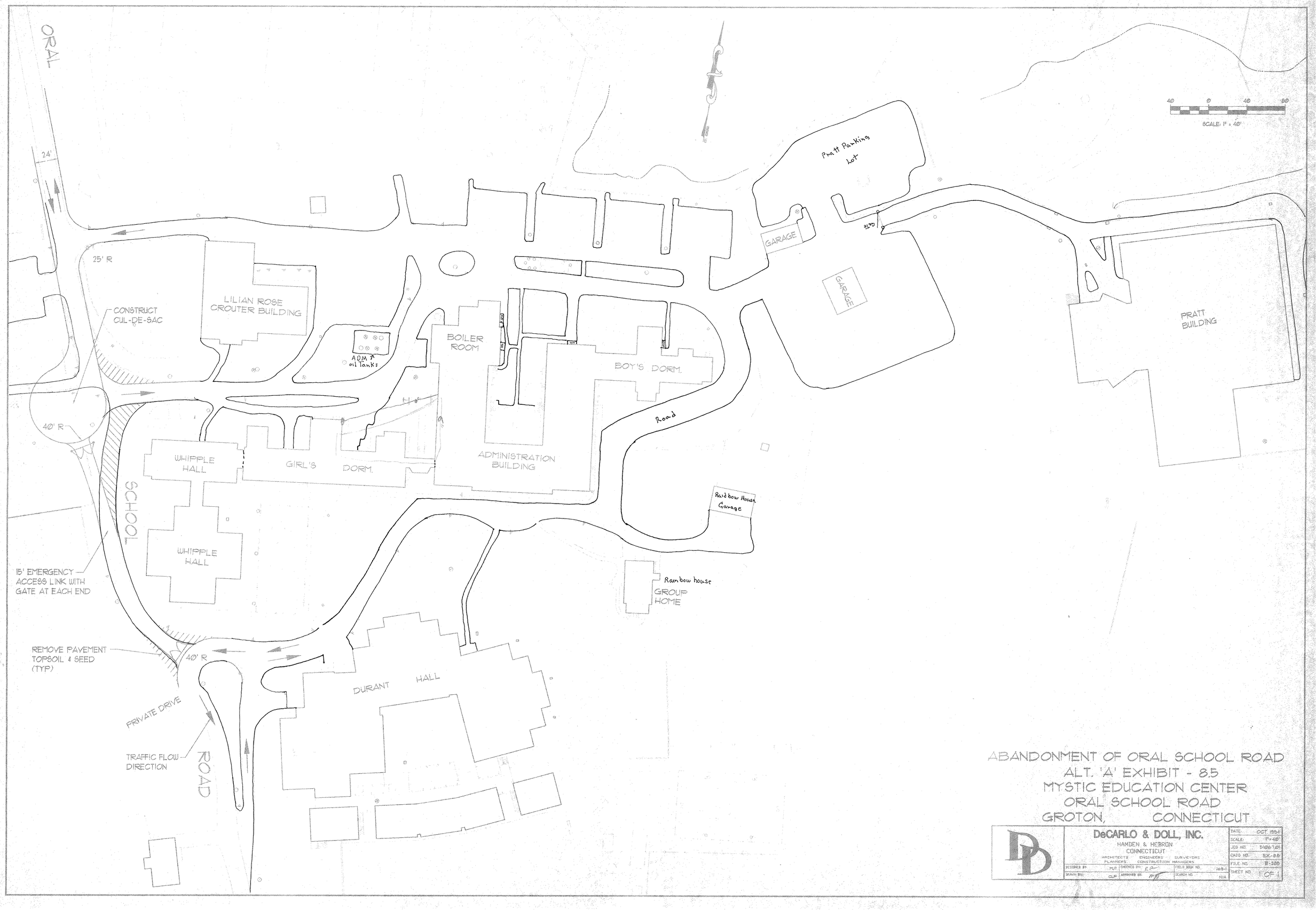
ENSR 4026 (Rev. 2/91)



ABANDONMENT OF ORAL SCHOOL ROAD
ALT. 'A' EXHIBIT - 8.5
MYSTIC EDUCATION CENTER
ORAL SCHOOL ROAD
GROTON, CONNECTICUT

DeCARLO & DOLL, INC.
HAMDEN & HEBRON
CONNECTICUT
ARCHITECTS ENGINEERS SURVEYORS
PLANNERS CONSTRUCTION MANAGERS

DESIGNED BY: MJT	CHECKED BY: EP	FIELD BOOK NO. 269-1	DATE: OCT 1994
DRAWN BY: CLP	APPROVED BY: [illegible]	SEARCH NO. N/A	SCALE: 1"=40'
			JOB NO. 5106701
			CADD NO. EX-8.5
			FILE NO. E-385
			SHEET NO. 1 OF 1

TUNXIS MANAGEMENT COMPANY

Post-It™ brand fax transmittal memo 7671	# of pages ▸ 13
To GEORGE N	From ERIK T
Co. DPW	Co. TUNXIS
Dept.	Phone #
Fax # 713 7263	Fax #

January 14, 2000

George Niles
DPW Facilities
165 Capitol Ave
Hartford, CT 06106

Re: Square Footages at Mystic Education Center

Dear George,

The following is a list of square footages in buildings compared to the actual amount of square footage used by tenants. These measurements include all interior space.

Administration Building 69,658 total S.F.

- DMR uses 27,000
- ETC uses 12,000 S.F. At some point in the past ETC was allowed to use an additional 4,850 S.F. in the basement for labs and storage. (I have spoken with leasing regarding this issue).

This leaves 30,653 S.F. vacant in the Administration.

Durant Hall 58,233 S.F. DMR uses 20,000 S.F. Whipple Hall 24,458 S.F., DMR uses 18,000 S.F.F.

Rainbow House 2,480 S.F. DMR uses 2,480 S.F.

Total # of DMR Employees – 109 Total # of DMR clients - 23

Total # of ETC Employees – 83 including part time. Approximatly 70 full time.

If you have any questions please call me at Uncas on Thames 889-8615 or Mystic 536-4221.

Thank you,

Erik T. Torkelson

Erik T. Torkelson
Property Manager

cc. Kyle Meccariello, TMCo

ONE LIBERTY SQUARE P.O. BOX 488 NEW BRITAIN, CT 06050 860•224•8621 FAX 860•229•2567

PROP. LOC.: ORAL SCHOOL RD

MAP I.D.: 137/ 55/ 3-0/0 /

Other i.d.: 261906297210 E

Bldg. 5 Card 5 of 5

Print Date: 05/02/95

CURRENT OWNER	TOPO.	UTILITIES	STRT/ROAD	LOCATION
CONNECTICUT STATE OF MYSTIC ORAL SCHOOL ORAL SCHOOL RD MYSTIC, CT 06355	1 Level	2 Public W 3 Public S	1 Paved	3 Rural

SUPPLEMENTAL DATA

Account No.: 520302

Survey

Survey

Survey

Fire Dist 5

Census

Block

Nbrhood

CAM Bnd

Hist Dist

Dir Loc W9

CURRENT ASSESSMENT

Description	Code	Appraised Value	Assessed Value
EX COM LN	21	361,200	252,840
EX COM BL	22	10,722,900	7,506,030
EX CM OTB	25	26,900	18,830
Total		11,111,000	7,777,700

6059

GROTON, CT

MMC

RECORD OF OWNERSHIP	BK-VOL/PAGE	MO/DY/YR	qu	vi	SALE PRICE	V.C.
CONNECTICUT STATE OF	064/400				0	

PREVIOUS ASSESSMENTS (HISTORY)

Yr	Code	Assessed Value	Yr	Code	Assessed Value	Yr	Code	Assessed Value
94	21	252,840	93	21	252,840	92	21	252,840
94	22	7,506,030	93	22	7,506,030	92	22	7,506,030
94	25	18,830	93	25	18,830	92	25	18,830
	Total	7,777,700		Total	7,777,700		Total	7,777,700

EXEMPTIONS

Year	Type/Description	Code	Amount
		Total	

OTHER ASSESSMENTS

Code	Description	Number	Amount	Comm. Int.

THIS SIGNATURE ACKNOWLEDGES A VISIT BY A DATA COLLECTOR OR ASSESSOR

X

COMPARABLE

Rtng	Parcel I.D./MBLU	Mo	Yr	Value	Adjust.	Adjust. Value

APPRAISED VALUE SUMMARY

Appraised Bldg. Value (Card)	134,400
Appraised X.F.(B) Value (Bldg)	0
Appraised O.B.(L) Value (Bldg)	0
Appraised Land Value (Bldg)	100
Special Land Value	0
Total Appraised Card Value	134,500
Total Appraised Parcel Value	11,111,000
Exemption(s)	
Net Total Appraised Parcel Value	11,111,000

BUILDING PERMIT RECORD

Permit I.D.#	Issue Date	Type	Description	Amount	Insp. Date	%Cmp	Date Cmp	Comments

VISIT/CHANGE HISTORY

Date	I.D.	Cd	Purpose/Result

LAND LINE DATA AND VALUATION SECTION

B#	UsCd	Description	Zone	D	Frntg	Depth	No. of Units	Tp	Unit Price	I. Fctr	Sl	Cn Fct	Nhbhd	Adj.	Notes-Adj/Spcl Lnd Prcng	Adj. Unit Price	Land Value
5	9010	STATE	R20				0.01	SF	13.50	1.00	1	1.00	0040	1.00		13.50	100
							Total Land Units	0.00	AC							Total	100

CONSTRUCTION DETAIL

Element	Cd	Ch	Description
Style/Type	40		Light Indust
Model	96		Industrial
Grade	03		Average
Stories	1		1 Story
Occupancy	01		
Exter. Wall 1	19		Brick Veneer
2			
Roof Structure	01		Flat
Roof Cover	04		Tar & Gravel
Inter. Wall 1	01		Minim/Masonry
2			
Inter. Floor 1	03		Concr-Finished
2			
Heating Fuel	02		Oil
Type	06		Steam
Air/Cn Type	01		None
Bedrooms	00		Zero Bedrooms
Bathrooms	0		Zero Bathrms
Total Rooms	0		
Bath Type			
Kitchen Style			

Commercial Data/Elements

Element	Cd	Ch	Description
Heat + A/C	00		NONE
Frame Type	03		MASONRY
Baths/Plmng	02		AVERAGE
Ceilng/Wl Fr	04		CEIL & MIN WL
Rooms/Prtns	02		AVERAGE
% Com.Wall			
Wall Height	20		

Condo./Coop. Data

Description	Code	Description	Factor
Cndo. Cmplx			
Floor Adj.			
Unit Locatn			
Numbr Units			
Numbr Levls			
% Ownership			

COST/MARKET VALUATION

Unadj Base Rate	29.00	
Size Adj Factor	1.0048	
Grade(Q) Index	1.19	
Adj Base Rate	34.68	
Bldg Value New		268,770
Year Built	1930	
Effctve Yr Built	1972	
Nrml Physcl Dep	40	
Functnl Obslnce	10	
Eco/Ext Obslnce	00	
Specl Cnd Code		
Specl Cnd %		
Overall % Cndtn	50	
Deprec Bldg Value		134,400

NOTES

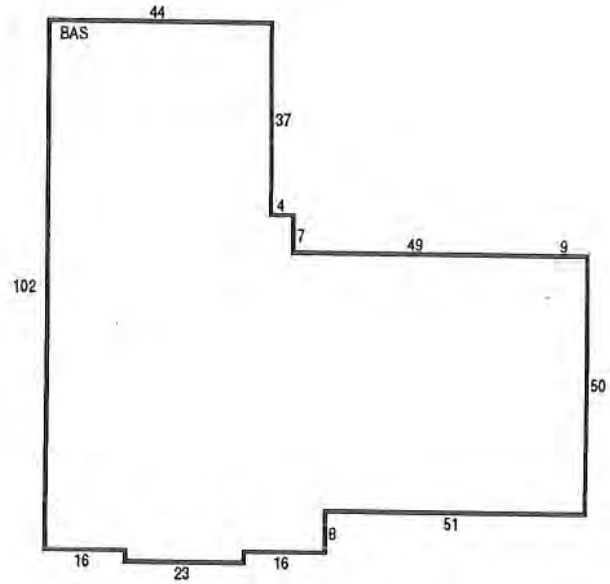
OB-OUTBUILDINGS & YARD ITEMS (L)

Code	Description	L	Units	Unit Price	Yr.	Dp Rt	%Cnd	Apr. Value

Total OB Value 0

INCOME SECTION

SKETCH



BUILDING SUB-AREA SUMMARY SECTION

Code	Description	Gross Area	Eff. Area	Unit Cost	Undeprec. Value
BAS	First Floor	7,750	7,750	34.68	268,770

Ttl. Gross Liv/Lease Area 7,750 Bldg Value 268,770

XF-BUILDING EXTRA FEATURES (B)

Code	Description	B	Units	Unit Price	Yr	Dp Rt	%Cnd	Appr. Value

Total XF Value 0

(Sketch) Traverse Code

BAS[L49,U7,L4,U37,L44,D102,R16,D2,R23,U2,R16,U8,R51,U50,L9]

/A

CONSTRUCTION DETAIL

Element	Cd	Ch	Description
Style/Type	72		School/College
Model	94		Commercial
Grade	05		Average +20
Stories	2		2 Stories
Occupancy	01		
Exter. Wall 1	19		Brick Veneer
2			
Roof Structure	01		Flat
Roof Cover	04		Tar & Gravel
Inter. Wall 1	05		Drywall/Sheet
2			
Inter. Floor 1	05		Vinyl/Asphalt
2			
Heating Fuel	02		Oil
Type	04		Forced Air-Duc
Air/Cn Type	03		Central
Bedrooms	00		Zero Bedrooms
Bathrooms	0		Zero Bathrms
Total Rooms	0		
Bath Type			
Kitchen Style			

Commercial Data/Elements

Element	Cd	Ch	Description
Heat + A/C	01		HEAT/AC PKGS
Frame Type	05		STEEL
Baths/Plmng	02		AVERAGE
Ceilng/Wl Fr	06		CEIL & WALLS
Rooms/Prtns	03		ABOVE AVERAGE
% Com.Wall			
Wall Height	10		

Condo./Coop. Data

Description	Code	Description	Factor
Cndo. Cmplx			
Floor Adj.			
Unit Locatn			
Numbr Units			
Numbr Levls			
% Ownership			

COST/MARKET VALUATION

Unadj Base Rate	75.00	
Size Adj Factor	0.8150	
Grade(Q) Index	1.46	
Adj Base Rate	89.25	
Bldg Value New		4,748,100
Year Built	1976	
Effctve Yr Built	1985	
Nrml Physcl Dep	14	
Functnl Obslnce	00	
Eco/Ext Obslnce	00	
Specl Cnd Code		
Specl Cnd %		
Overall % Cndtn	86	
Deprec Bldg Value		4,083,400

NOTES

NO SKETCH - ODD SHAPE
BLDG BUILT INTO A HILL

CLASSROOMS/DORM/APTS

SKETCH

BUILDING SUB-AREA SUMMARY SECTION

Code	Description	Gross Area	Eff. Area	Unit Cost	Undeprec. Value
BAS	First Floor	53,200	53,200	89.25	4,748,100
Ttl. Gross Liv/Lease Area		53,200		Bldg Value	4,748,100

OB-OUTBUILDINGS & YARD ITEMS (L)

Code	Description	L	Units	Unit Price	Yr.	Dp Rt	%Cnd	Apr. Value
							Total OB Value	0

INCOME SECTION

XF-BUILDING EXTRA FEATURES (B)

Code	Description	B	Units	Unit Price	Yr	Dp Rt	%Cnd	Appr. Value
				Total XF Value				0

(Sketch) Traverse Code
BAS[53200]

2

PROP. LOC.: ORAL SCHOOL RD

MAP I.D.: 137/ 55/ 3-0/0 /

Other i.d.: 261906297210 E

Bldg. 4 Card 4 of 5 Print Date: 05/02/95

CURRENT OWNER	TOPO.	UTILITIES	STRT/ROAD	LOCATION
CONNECTICUT STATE OF MYSTIC ORAL SCHOOL ORAL SCHOOL RD MYSTIC, CT 06355	1 Level	2 Public W 3 Public S	1 Paved	3 Rural

SUPPLEMENTAL DATA

Account No.: 520302

Survey

Survey

Survey

Fire Dist 5

Census

Block

Nbrhood

CAM Bnd

Hist Dist

Dir Loc W9

CURRENT ASSESSMENT

Description	Code	Appraised Value	Assessed Value
EX COM LN	21	361,200	252,840
EX COM BL	22	10,722,900	7,506,030
EX CM OTB	25	26,900	18,830
Total		11,111,000	7,777,700

6059

GROTON, CT

MMC

RECORD OF OWNERSHIP	BK-VOL/PAGE	MO/DY/YR	qu	vi	SALE PRICE	V.C.
CONNECTICUT STATE OF	064/400				0	

PREVIOUS ASSESSMENTS (HISTORY)

Yr	Code	Assessed Value	Yr	Code	Assessed Value	Yr	Code	Assessed Value
94	21	252,840	93	21	252,840	92	21	252,840
94	22	7,506,030	93	22	7,506,030	92	22	7,506,030
94	25	18,830	93	25	18,830	92	25	18,830
	Total	7,777,700		Total	7,777,700		Total	7,777,700

EXEMPTIONS

Year	Type/Description	Code	Amount
		Total	

OTHER ASSESSMENTS

Code	Description	Number	Amount	Comm. Int.

THIS SIGNATURE ACKNOWLEDGES A VISIT BY A DATA COLLECTOR OR ASSESSOR

X

COMPARABLE

Rmg	Parcel I.D./MBLU	Mo	Yr	Value	Adjust.	Adjust. Value

APPRAISED VALUE SUMMARY

Appraised Bldg. Value (Card)	4,083,400
Appraised X.F.(B) Value (Bldg)	0
Appraised O.B.(L) Value (Bldg)	0
Appraised Land Value (Bldg)	100
Special Land Value	0
Total Appraised Card Value	4,083,500
Total Appraised Parcel Value	11,111,000
Exemption(s)	
Net Total Appraised Parcel Value	11,111,000

BUILDING PERMIT RECORD

Permit I.D.#	Issue Date	Type	Description	Amount	Insp. Date	%Cmp	Date Cmp	Comments

VISIT/CHANGE HISTORY

Date	I.D.	Cd	Purpose/Result

LAND LINE DATA AND VALUATION SECTION

B#	UsCd	Description	Zone	D	Fmtg	Depth	No. of Units	Tp	Unit Price	I. Fctr	Sl	Cn Fct	Nhbhd	Adj.	Notes-Adj/Spcl Lnd Prcng	Adj. Unit Price	Land Value
4	9010	STATE	R20				0.01	SF	13.50	1.00	1	1.00	0040	1.00		13.50	100
						Total Land Units	0.00	AC								Total	100

2A

PROP. LOC.: ORAL SCHOOL RD MAP I.D.: 137/ 55/ 3-0/0 /

Other i.d.: 261906297210 E Bldg. 3 Card 3 of 5 Print Date: 05/02/95

CURRENT OWNER	TOPO.	UTILITIES	STRT/ROAD	LOCATION
CONNECTICUT STATE OF MYSTIC ORAL SCHOOL ORAL SCHOOL RD MYSTIC, CT 06355	1 Level	2 Public W 3 Public S	1 Paved	3 Rural

SUPPLEMENTAL DATA

Account No.: 520302
Survey
Survey
Survey
Fire Dist 5
Census
Block
Nbrhood
CAM Bnd
Hist Dist
Dir Loc W9

CURRENT ASSESSMENT

Description	Code	Appraised Value	Assessed Value
EX COM LN	21	361,200	252,840
EX COM BL	22	10,722,900	7,506,030
EX CM OTB	25	26,900	18,830
Total		11,111,000	7,777,700

6059
GROTON, CT

MMC

RECORD OF OWNERSHIP

	BK-VOL/PAGE	MO/DY/YR	nu	vi	SALE PRICE	V.C.
CONNECTICUT STATE OF	064/400				0	

PREVIOUS ASSESSMENTS (HISTORY)

Yr	Code	Assessed Value	Yr	Code	Assessed Value	Yr	Code	Assessed Value
94	21	252,840	93	21	252,840	92	21	252,840
94	22	7,506,030	93	22	7,506,030	92	22	7,506,030
94	25	18,830	93	25	18,830	92	25	18,830
	Total	7,777,700		Total	7,777,700		Total	7,777,700

EXEMPTIONS

Year	Type/Description	Code	Amount
		Total	

OTHER ASSESSMENTS

Code	Description	Number	Amount	Comm. Int.

THIS SIGNATURE ACKNOWLEDGES A VISIT BY A DATA COLLECTOR OR ASSESSOR

X

COMPARABLE

Rtng	Parcel I.D./MBLU	Mo	Yr	Value	Adjust.	Adjust. Value

APPRAISED VALUE SUMMARY

Appraised Bldg. Value (Card)	2,746,700
Appraised X.F.(B) Value (Bldg)	49,800
Appraised O.B.(L) Value (Bldg)	0
Appraised Land Value (Bldg)	100
Special Land Value	0
Total Appraised Card Value	2,796,600
Total Appraised Parcel Value	11,111,000
Exemption(s)	
Net Total Appraised Parcel Value	11,111,000

BUILDING PERMIT RECORD

Permit I.D.#	Issue Date	Type	Description	Amount	Insp. Date	%Cmp	Date Cmp	Comments

VISIT/CHANGE HISTORY

Date	I.D.	Cd	Purpose/Result

LAND LINE DATA AND VALUATION SECTION

B#	UsCd	Description	Zone	D	Fmtg	Depth	No. of Units	Tp	Unit Price	I. Fctr	Sl	Cn Fct	Nhbhd	Adj.	Notes-Adj/Spcl Lnd Prcng	Adj. Unit Price	Land Value
3	9010	STATE	R20				0.01	SF	13.50	1.00	1	1.00	0040	1.00		13.50	100
						Total Land Units	0.00	AC								Total	100

3A

CONSTRUCTION DETAIL

Element	Cd	Ch	Description
Style/Type	83		Schools-Public
Model	94		Commercial
Grade	04		Average +10
Stories	1		1 Story
Occupancy	01		
Exter. Wall 1	19		Brick Veneer
2			
Roof Structure	01		Flat
Roof Cover	04		Tar & Gravel
Inter. Wall 1	05		Drywall/Sheet
2			
Inter. Floor 1	15		Quarry Tile
2	14		Carpet
Heating Fuel	02		Oil
Type	04		Forced Air-Duc
Air/Cn Type	03		Central
Bedrooms	00		Zero Bedrooms
Bathrooms	0		Zero Bathrms
Total Rooms	0		
Bath Type			
Kitchen Style			

Commercial Data/Elements

Element	Cd	Ch	Description
Heat + A/C	01		HEAT/AC PKGS
Frame Type	05		STEEL
Baths/Plmng	02		AVERAGE
Ceilng/Wl Fr	06		CEIL & WALLS
Rooms/Prtns	02		AVERAGE
% Com.Wall			
Wall Height	28		

Condo./Coop. Data

Description	Code	Description	Factor
Cndo. Cmplx			
Floor Adj.			
Unit Locatn			
Numbr Units			
Numbr Levls			
% Ownership			

COST/MARKET VALUATION

Unadj Base Rate	65.00	
Size Adj Factor	0.8209	
Grade(Q) Index	1.56	
Adj Base Rate	83.23	
Bldg Value New		3,193,868
Year Built	1976	
Effctve Yr Built	1985	
Nrml Physcl Dep	14	
Functnl Obslnce	00	
Eco/Ext Obslnce	00	
Specl Cnd Code		
Specl Cnd %		
Overall % Cndtn	86	
Deprec Bldg Value		2,746,700

NOTES

THEATER/POOL/GYM

POOL=46X70 OLYMPIC SIZE
144 SEAT THEATER

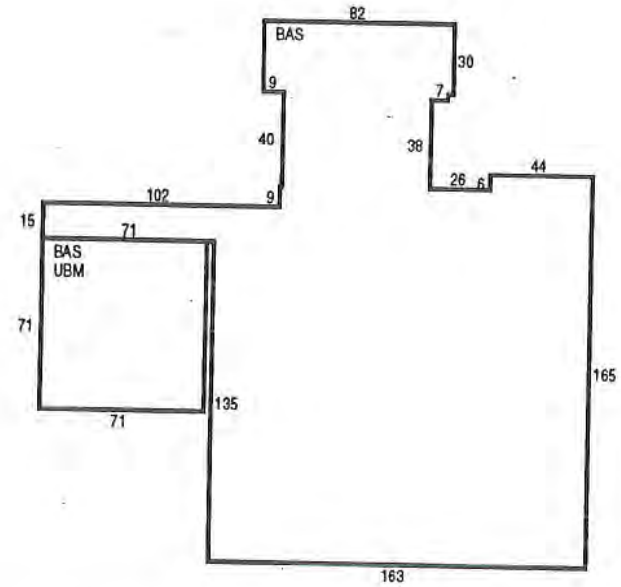
OB-OUTBUILDINGS & YARD ITEMS (L)

Code	Description	L	Units	Unit Price	Yr.	Dp Rt	%Cnd	Apr. Value

Total OB Value 0

INCOME SECTION

SKETCH



BUILDING SUB-AREA SUMMARY SECTION

Code	Description	Gross Area	Eff. Area	Unit Cost	Undeprec. Value
BAS	First Floor	37,114	37,114	83.23	3,088,998
UBM	Basement, Unfinish	5,041	1,260	20.80	104,870

Ttl. Gross Liv/Lease Area 37,114 Bldg Value 3,193,868

XF-BUILDING EXTRA FEATURES (B)

Code	Description	B	Units	Unit Price	Yr	Dp Rt	%Cnd	Appr. Value
	SPL1	B	3,220	18.00	85	2.00	100	49,800

Total XF Value 49,800

(Sketch) Traverse Code

BAS/UBM[D71,R71,U71,L71],BAS[U15,R102,U9,R1,U40,L9,U30,R82,D30,L2,D2,L7,D38,R26,U6,R44,D165,L163,U135,L71,L3]

CONSTRUCTION DETAIL

Element	Cd	Ch	Description
Style/Type	72		School/College
Model	94		Commercial
Grade	03		Average
Stories	2		2 Stories
Occupancy	01		
Exter. Wall 1	19		Brick Veneer
2			
Roof Structure	03		Gable/Hip
Roof Cover	11		Slate
Inter. Wall 1	01		Minim/Masonry
2			
Inter. Floor 1	05		Vinyl/Asphalt
2			
Heating Fuel	02		Oil
Type	06		Steam
Air/Cn Type	01		None
Bedrooms	00		
Bathrooms	2		
Total Rooms			
Bath Type			
Kitchen Style			

Commercial Data/Elements

Element	Cd	Ch	Description
Heat + A/C	00		NONE
Frame Type	03		MASONRY
Baths/Plmng	02		AVERAGE
Ceilng/Wl Fr	05		SUS-CEIL & WL
Rooms/Prtns	03		ABOVE AVERAGE
% Com.Wall			
Wall Height	10		

Condo./Coop. Data

Description	Code	Description	Factor
Cndo. Cmplx			
Floor Adj.			
Unit Locatn			
Numbr Units			
Numbr Levls			
% Ownership			

COST/MARKET VALUATION

Unadj Base Rate	75.00	
Size Adj Factor	0.8081	
Grade(Q) Index	1.00	
Adj Base Rate	60.60	
Bldg Value New		6,013,217
Year Built	1921	
Effctve Yr Built	1977	
Nrml Physcl Dep	30	
Functnl Obslnce	10	
Eco/Ext Obslnce	00	
Specl Cnd Code		
Specl Cnd %		
Overall % Cndtn	60	
Deprec Bldg Value		3,607,900

NOTES

CLASS RMS & DORMS

SKETCH

BUILDING SUB-AREA SUMMARY SECTION

Code	Description	Gross Area	Eff. Area	Unit Cost	Undeprec. Value
BAS	First Floor	42,512	42,512	60.60	2,576,227
FAT	Attic, Finished	3,948	987	15.15	59,812
FOP	Porch, Open, Finis	400	100	15.15	6,060
FUS	Upper Story, Finis	42,359	42,359	60.60	2,566,955
SFB	Base, Semi-Finishe	10,331	8,265	48.48	500,859
UBM	Basement, Unfinish	20,018	5,005	15.15	303,303

Ttl. Gross Liv/Lease Area 94,123 Bldg Value 6,013,217

OB-OUTBUILDINGS & YARD ITEMS (L)

Code	Description	L	Units	Unit Price	Yr.	Dp Rt	%Cnd	Apr. Value

Total OB Value 0

INCOME SECTION

XF-BUILDING EXTRA FEATURES (B)

Code	Description	B	Units	Unit Price	Yr	Dp Rt	%Cnd	Appr. Value

(Sketch) Traverse Code Total XF Value 0

BAS[42512],FUS[42359],SFB[10331],UBM[20018],FOP[400],FAT[3948]

4

PROP. LOC.: ORAL SCHOOL RD

MAP I.D.: 137/ 55/ 3-0/0 /

Other i.d.: 261906297210 E

Bldg. 2 Card 2 of 5

Print Date: 05/02/95

CURRENT OWNER	TOPO.	UTILITIES	STRT/ROAD	LOCATION
CONNECTICUT STATE OF MYSTIC ORAL SCHOOL ORAL SCHOOL RD MYSTIC, CT 06355	1 Level	2 Public W 3 Public S	1 Paved	3 Rural

SUPPLEMENTAL DATA

Account No.: 520302
Survey
Survey
Survey
Fire Dist 5

Census
Block
Nbrhood
CAM Bnd
Hist Dist
Dir Loc W9

CURRENT ASSESSMENT

Description	Code	Appraised Value	Assessed Value
EX COM LN	21	361,200	252,840
EX COM BL	22	10,722,900	7,506,030
EX CM OTB	25	26,900	18,830
Total		11,111,000	7,777,700

6059

GROTON, CT

MMC

RECORD OF OWNERSHIP

	BK-VOL/PAGE	MO/DY/YR	qu	vi	SALE PRICE	V.C.
CONNECTICUT STATE OF	064/400				0	

PREVIOUS ASSESSMENTS (HISTORY)

Yr	Code	Assessed Value	Yr	Code	Assessed Value	Yr	Code	Assessed Value
94	21	252,840	93	21	252,840	92	21	252,840
94	22	7,506,030	93	22	7,506,030	92	22	7,506,030
94	25	18,830	93	25	18,830	92	25	18,830
	Total	7,777,700		Total	7,777,700		Total	7,777,700

EXEMPTIONS

Year	Type/Description	Code	Amount
		Total	

OTHER ASSESSMENTS

Code	Description	Number	Amount	Comm. Int.

THIS SIGNATURE ACKNOWLEDGES A VISIT BY A DATA COLLECTOR OR ASSESSOR

X

APPRAISED VALUE SUMMARY

Appraised Bldg. Value (Card)	3,607,900
Appraised X.F.(B) Value (Bldg)	0
Appraised O.B.(L) Value (Bldg)	0
Appraised Land Value (Bldg)	100
Special Land Value	0
Total Appraised Card Value	3,608,000
Total Appraised Parcel Value	11,111,000
Exemption(s)	
Net Total Appraised Parcel Value	11,111,000

COMPARABLE

Rtng	Parcel I.D./MBLU	Mo	Yr	Value	Adjust.	Adjust. Value

BUILDING PERMIT RECORD

Permit I.D.#	Issue Date	Type	Description	Amount	Insp. Date	%Cmp	Date Cmp.	Comments

VISIT/CHANGE HISTORY

Date	I.D.	Cd	Purpose/Result

LAND LINE DATA AND VALUATION SECTION

B#	UsCd	Description	Zone	D	Fmtg	Depth	No. of Units	Tp	Unit Price	I. Fctr	Sl	Cn Fct	Nhbhd	Adj.	Notes-Adj/Spcl Lnd Prcng	Adj. Unit Price	Land Value
2	9010	STATE	R20				0.01	SF	13.50	1.00	1	1.00	0040	1.00		13.50	100
						Total Land Units	0.00	AC								Total	100

4A

CONSTRUCTION DETAIL

Element	Cd	Ch	Description
Style/Type	03		Colonial
Model	01		Residential
Grade	05		Average +20
Stories	2		2 Stories
Occupancy	01		
Exter. Wall 1	19		Brick Veneer
2			
Roof Structure	07		Gambrel
Roof Cover	03		Asph/F Gls/Cmp
Inter. Wall 1	03		Plastered
2			
Inter. Floor 1	12		Hardwood
2			
Heating Fuel	02		Oil
Type	05		Hot Water
Air/Cn Type	01		None
Bedrooms	04		4 Bedrooms
Bathrooms	2		2 Bathrooms
Total Rooms	8		8 Rooms
Bath Type	02		Modern
Kitchen Style	02		Modern

Commercial Data/Elements

Element	Cd	Ch	Description
Heat + A/C			
Frame Type			
Baths/Plmng			
Ceilng/Wl Fr			
Rooms/Prtns			
% Com.Wall			
Wall Height			

Condo./Coop. Data

Description	Code	Description	Factor
Cndo. Cmplx			
Floor Adj.			
Unit Locatn			
Numbr Units			
Numbr Levls			
% Ownership			

COST/MARKET VALUATION

Unadj Base Rate	41.00	
Size Adj Factor	0.9225	
Grade(Q) Index	1.29	
Adj Base Rate	48.79	
Bldg Value New		137,881
Year Built	1930	
Effctve Yr Built	1965	
Nrml Physcl Dep	27	
Functnl Obslnce	00	
Eco/Ext Obslnce	00	
Specl Cnd Code		
Specl Cnd %		
Overall % Cndtn	73	
Deprec Bldg Value		100,700

NOTES

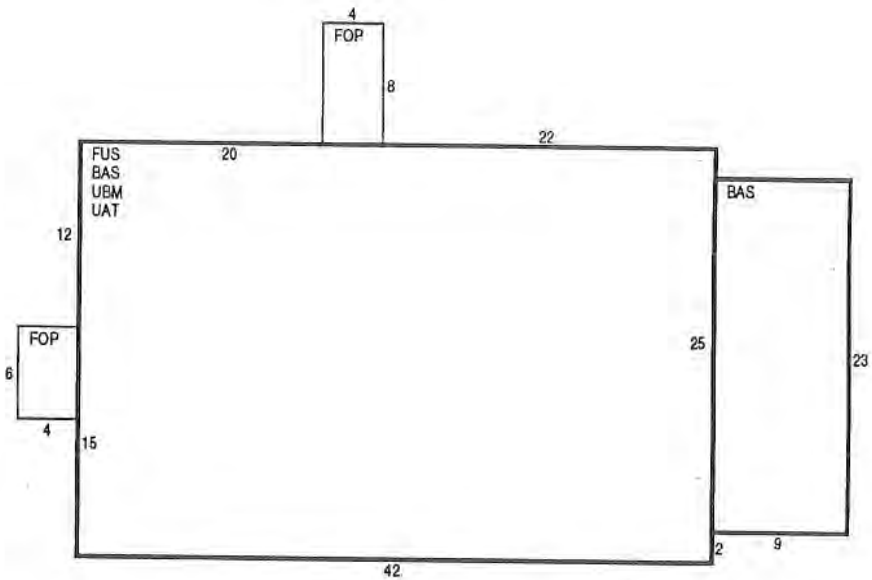
DIRECTOR'S RESIDENCE

OB-OUTBUILDINGS & YARD ITEMS (L)

Code	Description	L	Units	Unit Price	Yr.	Dp Rt	%Cnd	Apr. Value
FGR1	GARAGE-AVE	L	968	16.00	92	0.00	50	7,700
FGR1	GARAGE-AVE	L	240	16.00	92	0.00	50	1,900
FGR1	GARAGE-AVE	L	800	16.00	92	0.00	50	6,400
FGR1	GARAGE-AVE	L	1360	16.00	92	0.00	50	10,900
							Total OB Value	26,900

INCOME SECTION

SKETCH



BUILDING SUB-AREA SUMMARY SECTION

Code	Description	Gross Area	Eff. Area	Unit Cost	Undeprec. Value
BAS	First Floor	1,341	1,341	48.79	65,427
FOP	Porch, Open, Finis	56	11	9.58	537
FUS	Upper Story, Finis	1,134	1,134	48.79	55,328
UAT	Attic, Unfinished	1,134	113	4.86	5,513
UBM	Basement, Unfinish	1,134	227	9.77	11,075

Ttl. Gross Liv/Lease Area 2,475 Bldg Value 137,881

XF-BUILDING EXTRA FEATURES (B)

Code	Description	B	Units	Unit Price	Yr	Dp Rt	%Cnd	Appr. Value

(Sketch) Traverse Code — Total XF Value 0

UAT/FUS/BAS/UBM[L22,FOP[U8,L4,D8,R4],L20,D12,FOP[L4,D6,R4,U6],D15,
R42,U2,BAS[U23,R9,D23,L9],U25]

TRC Environmental Corporation

5 Waterside Crossing
Windsor, Connecticut 06095
Telephone 860-289-8631
Facsimile 860-298 6399

July 14, 1997

Mystic Copy 7/17/97

FYI gave to Penny + sign it.
Need check $250.00 for permit
(Generator)

Mr. Harold Monroe
Superintendent
Mystic Educational Center
240 Oral School Road
Mystic, CT 06366

Re: General Permit Registration Forms for Emergency Generators
Mystic Educational Center
TRC Project No. 18701-0000

Dear Mr. Monroe:

Enclosed please find one complete set forms for the Mystic Center diesel generator including the Application Transmittal Form, General Permit Registration Form and Small Internal Combustion Engine Compliance Assurance Form. The Compliance Assurance Form has just recently been issued by the CTDEP for internal combustion engines smaller than 600 horsepower. Page 3 of this form needs to be signed by you to state that the generator is only used for emergency purposes, and by the Comissioner. The Compliance Assurance Form needs to be submitted before August 1, 1997 to qualify for the Section IV exemption.

Please note that when submitting the Registration Form to the CTDEP, the number of the check for payment ($250.00) must be entered on page 2 of the transmittal form. The check needs to be made payable to the "Department of Environmental Protection". The Transmittal Form and Registration Form with the fee need to be sent to the:

Central Permit Processing Unit
Department of Environmental Protection
79 Elm Street
Hartford, Connecticut 06105-5127

The Compliance Assurance Form needs to be mailed to the "Director, Engineering and Enforcement Division, Bureau of Air Management" at the same address as listed above.

If you have any questions on the information provided, do not hesitate to call me.

Sincerely,
TRC ENVIRONMENTAL CORPORATION

Albert Wile for CES

Craig E. Scott
Associate Project Engineer

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Permit Processing Unit
79 Elm Street
Hartford, CT 06106-5127

Permit Application Transmittal Form

Please complete this transmittal form in accordance with the instructions in order to ensure the proper handling of your application(s) and the associated fee(s). Print legibly or type.

DEP USE ONLY
Document No._____
Rec'd CPPU_____
Rec'd Program_____

Part I: Applicant Information

Applicant: Department of Public Works
Company Name or, if applicant is an individual, write name in the following format:
Title (Mr, Ms, Dr) First Name Middle Initial Last Name Suffix (Jr, PE, PhD)

Mailing Address: 165 Capitol Avenue, State Office Building, Room 425
City/Town: Hartford State: CT Zip Code: 06106
Phone: (860) 566-3360 ext._____ Fax: (860) 566-1366
Contact Person: Mr. Theodore R. Anson Phone: (860) 566-3360 ext._____

☐ Check if any co-applicants. If so, attach additional sheet(s) with the required information as supplied above.

Applicant Is a(n) (check one): ☐ individual ☐ company ☐ federal ☒ state ☐ municipal
If a Company, list company type (e.g., corporation, limited partnership, etc.)_____

Applicant Billing Address: See Above
City/Town:_____ State:_____ Zip Code:_____
Billing Contact Name:_____ Phone:( ) _____ ext._____

Part II: Project Information

Brief Project Description: Operation of a 275 kW Emergency Diesel Generator

Location (City/Town):
Mystic

Other Project Permits (*not* included with this form):

Permit Description	Issuing Authority	Submittal Date	Issuance Date	Denial Date	Permit #

Part III: Individual Permit Application and Fee Information

N, M, RV, R	Individual Permit Applications	Initial Fees	No. of Apps.	Total Initial Fees	Original + Required Copies
	AIR EMISSIONS				
	New Source Review	$100.00			1 + 0
	Title V Operating Permits	none			1 + 0
	WATER DISCHARGES				
	To Groundwater	$700.00			1 + 2
	To Surface Water (NPDES)	$700.00			1 + 2
	To Sanitary Sewer (POTW)	$700.00			1 + 1
	INLAND WATER RESOURCES				
	Inland Wetlands and Watercourses	none			1 + 5
	Stream Channel Encroachment Lines	★			
	Inland 401 Water Quality Certification	none			
	Water Diversion	★			1 + 7
	Dam Construction	none			1 + 2
	Flood Management Certification	none			1 + 1
	OFFICE OF LONG ISLAND SOUND PROGRAMS				
	Structures & Dredging/Marine Mining/Tidal Wetlands	$350.00			1 + 7
	Coastal 401 Water Quality Certification	none			1 + 7
	Certificate of Permission	$200.00			1 + 2
	WASTE MANAGEMENT				
	Waste Transportation	★			1 + 0
	Solid Waste Facilities	★			1 + 2
	RCRA Closure Plan	$2500.00			1 + 0
	RCRA Post Closure	$2500.00			1 + 0
	Section 22a-454 CGS Waste Facilities	★			1 + 1
	Hazardous Waste Treatment, Storage & Disposal Facilities	★			1 + 1
	Aquatic Pesticide Application	$25.00			1 + 0
	Aerial Pesticide Application	★			1 + 2
	Marine Terminal License	$125.00			1 + 0
		Subtotal →			
	GENERAL PERMITS and AUTHORIZATIONS Enter totals from Part IV, page 3 of this form →		1	$250	
		TOTAL →	1	$250	
	☐ Indicate whether municipal discount or state waiver applies. Less Applicable Discount →			N/A	
		AMOUNT REMITTED →		$250	
	Check # →				

★ See fee schedule on individual application.

Part IV: General Permit Registrations and Requests for Other Authorizations
Application and Fee Information

✔	General Permits and Other Authorizations	Initial Fees	# of Apps.	Total Initial Fees	Original + Required Copies
	AIR EMISSIONS				
	Emergency Authorization	★★			1 + 0
	Temporary Authorization	★★			1 + 0
	WATER DISCHARGES				
	Car Wash Wastewater	$437.50			1 + 0
	Domestic Sewage	$250.00			1 + 0
	Groundwater Contamination Recovery System	$2637.50			1 + 0
	Hydrostatic Pressure Testing (Natural Gas Pipelines)	$500.00			1 + 1
	Hydrostatic Pressure Testing	$250.00			1 + 0
	Minor Non-Contact Cooling Water	$500.00		-	1 + 1
	Minor Photographic Processing	$ 50.00			1 + 0
	Minor Printing & Publishing Wastewater	$250.00			1 + 0
	Minor Tumbling & Cleaning of Parts Wastewater	$500.00			1 + 1
	Stormwater Associated with Commercial Activities	$250.00			1 + 0
	Stormwater Associated with Industrial Activities	$250.00			1 + 0
	Stormwater & Dewatering Wastewaters-Construction Activities	$250.00			1 + 0
	Vehicle Service Floor Drain Wastewater	$ 50.00			1 + 0
	Water Treatment Wastewater	$250.00			1 + 0
	Emergency Authorization - Discharge to POTW	$250.00			1 + 0
	Emergency Authorization - Discharge to Surface Water	$500.00			1 + 0
	Temporary Authorization - Discharge to POTW	$250.00			1 + 0
	Temporary Authorization - Discharge to Surface Water	$500.00			1 + 0
	INLAND WATER RESOURCES				
	Emergency Authorization	★★			★★
	Temporary Authorization	★★			★★
	OFFICE OF LONG ISLAND SOUND PROGRAMS				
	Emergency Authorization	★★			1 + 0
	Temporary Authorization	★★			1 + 0
	WASTE MANAGEMENT				
	Asbestos Disposal Authorization	$200.00			1 + 0
	Drop-site Recycling Facility	$100.00			1 + 0
	Limited Processing Recycling Facility	$250.00			1 + 0
	Recyclables Transfer Facility	$250.00			1 + 0
	Single Item Recycling Facility	$250.00			1 + 0
	Special Waste Authorization	$100.00			1 + 0
	Emergency Authorization	★★			
	Temporary Authorization	★★			
✔	New Unlisted General Permit	$250	1	$250	
		TOTAL ➔	1	$250	

Note: Carry totals over to Part III, page 2 of this form.

★★ Contact the specific permit program for this information.

Small Internal Combustion Engine Compliance Assurance Form

DEP USE ONLY			
Date of Receipt: _____	Departmental Approval	☐ Yes	☐ No
Signature: _____	Title: _____	Date: _____	

Print or type unless otherwise noted. **Mail completed form within sixty (60) days to:**

DIRECTOR, ENGINEERING AND ENFORCEMENT DIVISION
BUREAU OF AIR MANAGEMENT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
79 ELM ST, FIFTH FLOOR
HARTFORD, CT 06106-5127

Purpose: Upon the Commissioner's review and approval of this completed compliance form, existing and new, internal combustion engines will come into compliance with the particulate matter (PM) emission limitation of 0.1 pound/MMBtu of Section 22a-174-18 of the Regulations of Connecticut State Agencies (RCSA).

Note: Small internal combustion engines are defined as being less than 600 horsepower.

Part I: General Information

Applicant: Department of Public Works
Mailing Address: 165 Capitol Avenue, State Office Building, Room 425
City/Town: Hartford State: CT Zip Code: 06106
Business Phone: (860) 566-3360 Ext. _____ Fax: (860) 566-1366
Contact: Mr. Theodore R. Anson Title: Commissioner

☐ If any co-applicants, attach additional sheet with the same information as supplied above. Please enter a check mark if additional sheets are attached.

Owner of Engine(s): Harold Monroe
Mailing Address: 240 Oral School Road
City/Town: Mystic State: CT Zip Code: 06366
Business Phone: (860) 536-4221 Ext. _____ Fax: (860) 572-7579

☐ If any co-owners, attach additional sheet with the same information as supplied above. Please enter a check mark if additional sheets are attached.

Facility Name: Mystic Educational Center
Mailing Address: 240 Oral School Road
City/Town: Mystic State: CT Zip Code: 06366

Part II: List of Small Internal Combustion Engines at the Facility

Engine Manufacturer and Model Number	Serial Number	Engine Size HP or KW	Permit, Registration, or EPE Number	Date of Permit/ Registration Issuance or Application Submittal
#1: Caterpiller Model 3406	NA	275 kW		July 1997
#2:				
#3:				
#4:				

Continue list on Attachment A, Page 4 of this form, if additional space is necessary.

Part III: Compliance Schedule

The owner/operator agrees to the following compliance schedule:

1. **Existing Engines:**

NOTE: All existing, small internal combustion engines which are not permitted, registered, or for which permit applications have not been submitted prior to August 1, 1997, but which are subject to RCSA Section 22a-174-3, shall comply with the requirements for *New Engines*.

a. For small internal combustion engines identified in Part II of this compliance form existing at the subject facility prior to August 1, 1997, and for which the owner currently has authorization under a general permit or an individual permit or for which the owner has submitted an application for a general permit or an individual permit prior to August 1, 1997, such owner or operator shall comply no later than August 1, 1998, with the particulate matter emissions limitations set forth in RCSA Section 22a-174-18 as they may be amended.

b. Until such time as compliance is required in accordance with subdivision 1a., above, each subject piece of equipment identified in Part II of this compliance form shall comply with one of the following:

(1) Demonstrate compliance with the particulate emission standard set forth in RCSA Section 22a-174-18(d) by means of a stack test conducted in accordance with the requirements of RCSA Section 22a-174-5 or by submitting emissions data prepared by the manufacturer in accordance with test methodologies approved by the United States Environmental Protection Agency; or

(2) Use fuel with a sulfur content of 0.05% by weight sulfur; or

(3) Use kerosene or propane as fuel; or

(4) Certify on Part IV of this compliance form, that the equipment identified in Part IV of this compliance form will be used only to provide mechanical or electrical power during periods of routine testing, scheduled maintenance or power outage.

2. **New Engines:**

For each new, small internal combustion engine identified in Part II of this compliance form not existing at the facility prior to August 1, 1997, as well as all existing, small internal combustion engines which are not permitted, registered, or for which permit applications have not been submitted prior to August 1, 1997, but which are subject to RCSA Section 22a-174-3, the owner or operator shall comply with the particulate emission limitation of 0.1 pounds of particulate matter per million Btu as set forth in RCSA Section 22a-174-18. Such owner or operator shall comply with subparagraphs 1b(1), 1b(2), or 1b(3) listed above.

Note: complete Part IV only if you are choosing the compliance option in Part III, Item 1b(4) for one or more subject engines.

Part IV: Certification of Use of Engine(s) for Emergency Use Only

I have personally examined and am familiar with the compliance option detailed in Part III, Item 1b(4) of this document. I certify that based on reasonable investigation, including my inquiry of the individuals responsible for the operation of the subject equipment, or inquiry of those individuals responsible to gather such information, that *the equipment listed below provides mechanical or electrical power only during periods of routine testing, schedule maintenance or power outage:*

List all applicable engine numbers from Part II (or Attachment A): #1 Caterpiller Model 3406 Diesel Generator

Harold D Monroe Jr
Signature of Small Internal Combustion Engine(s) Owner

July 17, 1997
Date

Harold Monroe
Name of Owner

Superintendent
Title (if applicable)

☐ Please enter a check mark if additional signatures are attached.

Part V: Applicant Certification

The owner(s) of the small internal combustion engine(s) must sign this part. An application will be considered insufficient unless all required signatures are provided.

I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with Section 22a-6 of the General Statutes, pursuant to Section 53a-157b of the General Statutes, and in accordance with any other applicable statute.

Signature of Small Internal Combustion Engine(s) Owner

Date

Theodore R. Anson
Name of Owner

Comissioner
Title (if applicable)

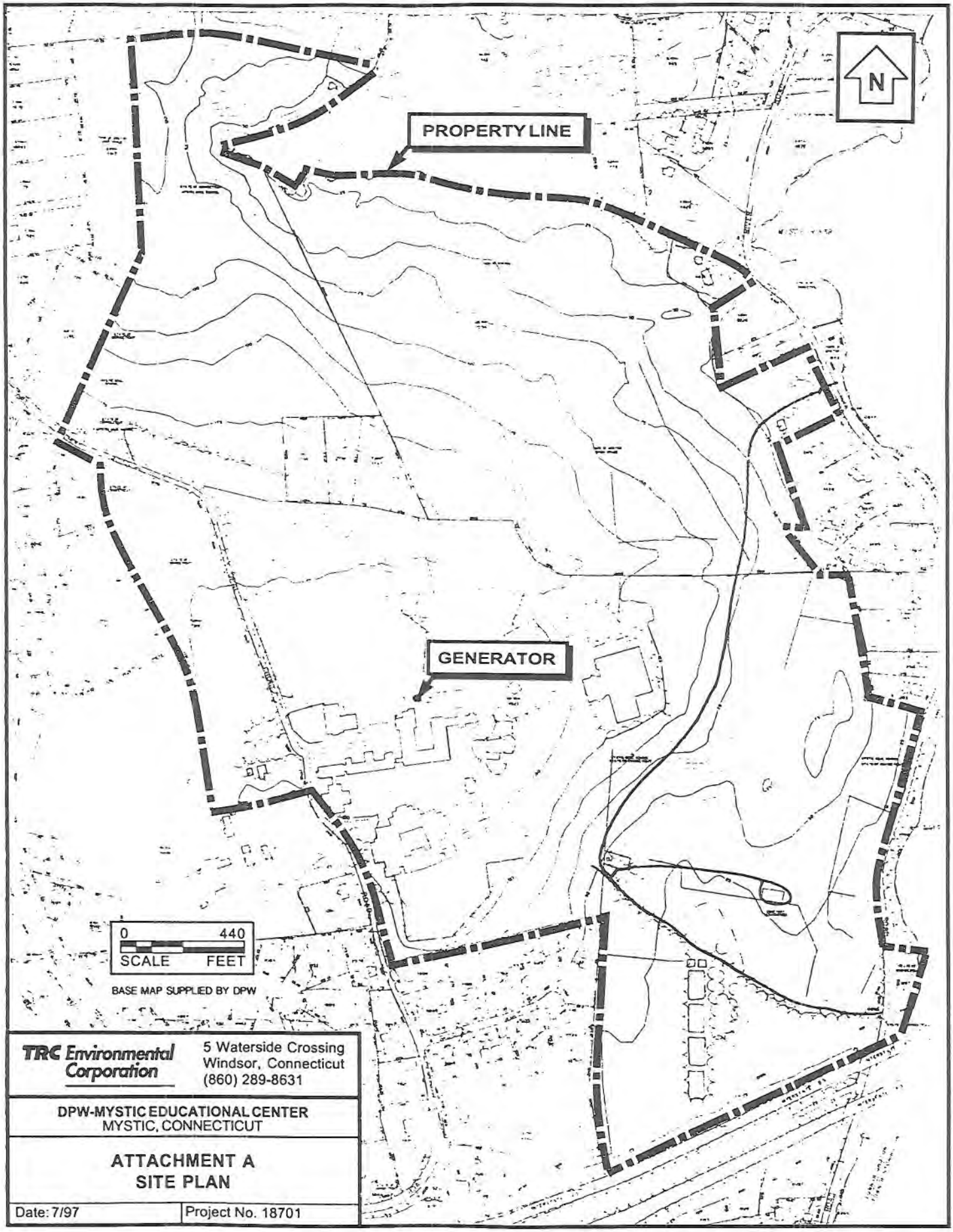
☐ Please enter a check mark if additional signatures are attached.

Attachment A: Part II Continued

Complete this section only if you needed additional space in Part II to list all small internal combustion engines at the facility.

Engine Manufacturer and Model Number	Serial Number	Engine Size HP or KW	Permit, Registration, or EPE Number	Date of Permit/ Registration Issuance or Application Submittal
#5:				
#6:				
#7:				
#8:				
#9:				
#10:				
#11:				
#12:				
#13:				
#14:				
#15:				
#16:				
#17:				
#18:				
#19:				
#20:				
#21:				
#22:				
#23:				
#24:				
#25:				
#26:				
#27:				

ATTACHMENT A



TRC Environmental Corporation

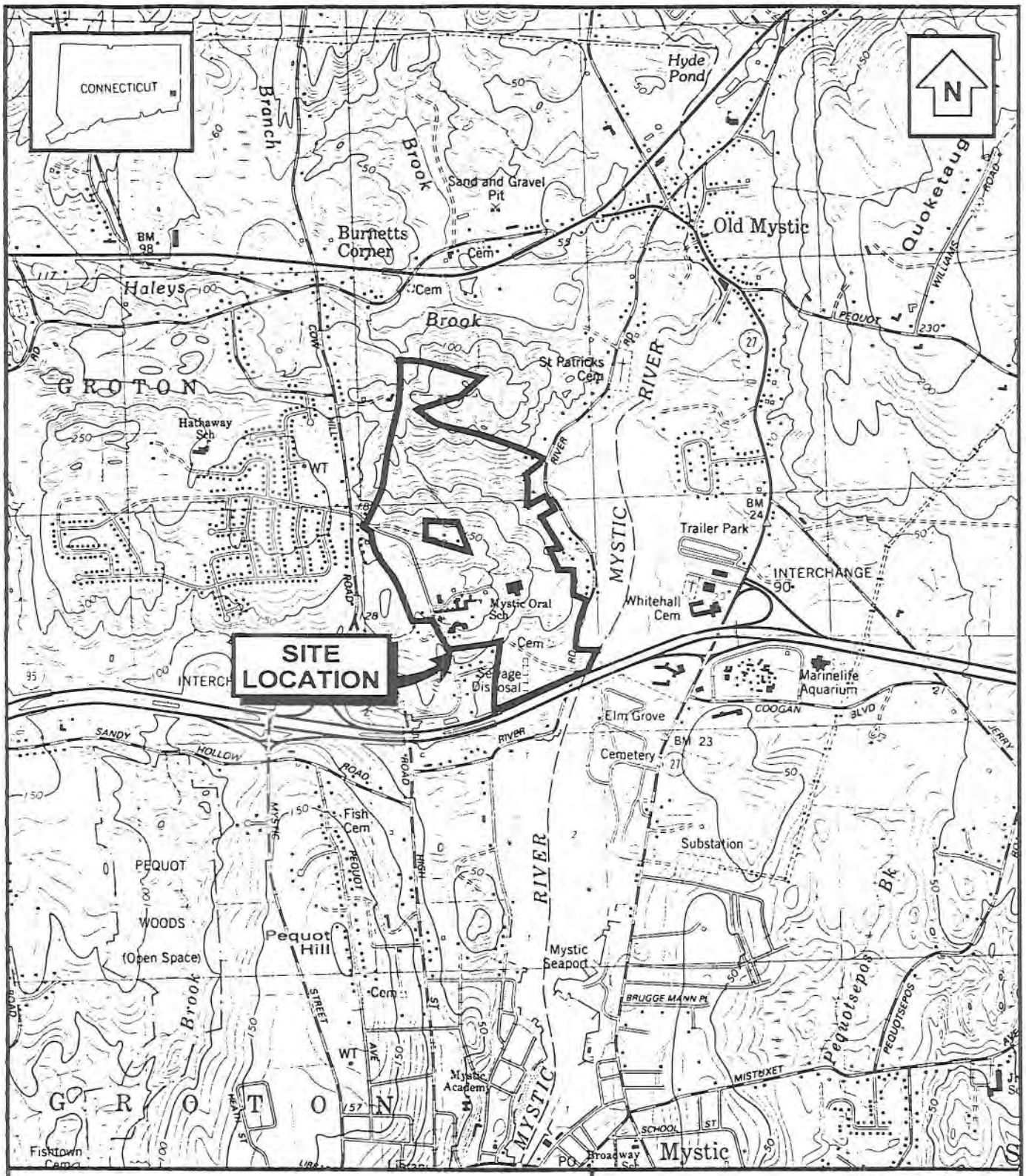
5 Waterside Crossing
Windsor, Connecticut
(860) 289-8631

DPW-MYSTIC EDUCATIONAL CENTER
MYSTIC, CONNECTICUT

ATTACHMENT A
SITE PLAN

Date: 7/97 | Project No. 18701

ATTACHMENT B



0 2000
SCALE FEET

1:24,000

FROM OLD MYSTIC, CT 1983 AND
MYSTIC, CT-NY-RI, 1984,
7.5' USGS TOPOGRAPHIC MAPS

TRC Environmental Corporation

5 Waterside Crossing
Windsor, Connecticut
(860) 289-8631

DPW-MYSTIC EDUCATIONAL CENTER
MYSTIC, CONNECTICUT

ATTACHMENT B
SITE LOCATION MAP

Date: 7/97 | Project No. 18701

ATTACHMENT C

No Ambient Air Impact Analysis Required for this Permit Application

State of Connecticut, Department of Public Works
Mystic Educational Center
240 Oral School Road, Mystic
Caterpillar Model 3406, 275 kW
Emission Calculations and Assumptions
<447 kW (<600 HP), Internal Combustion Engine
Diesel Powered

Potential Operating Hours (or permitted hours)	500	
Type Fuel	Diesel	
Fuel Higher Heating Value, (Btu/gal)	138,000	
Gallons per Hour	20.8	Known
Fuel Input in mmBtu per Hour	2.609	estimated
Output in kW	275.0	Known
BHP Rating	372.7	estimated
Actual Operating Hours	26.00	Known
Fuel Usage for 1996 (gal/year)	541	estimated
Sulfur Content in Fuel	0.30	proposed

Pollutant	Emission Factor Source	Emission Factor Fuel Input (lbs/mmBtu)	Actual Emissions (ton/yr)	Potential Emissions (lb/hr)	Potential Emissions (ton/yr)	Federal HAPs
PM	1	0.31	0.01	0.81	0.20	
PM_{10}	1	0.31	0.01	0.81	0.20	
SOx	1	0.29	0.01	0.76	0.19	
CO	1	0.95	0.04	2.48	0.62	
TOC	1	0.36	0.01	0.94	0.23	
NOx	1	4.41	0.16	11.51	2.88	
1,3 Butadiene	1	3.91E-05	1.46E-06	1.02E-04	2.55E-05	yes
Acetaldehyde	1	7.67E-04	2.86E-05	2.00E-03	5.00E-04	yes
Acrolein	1	9.25E-05	3.45E-06	2.41E-04	6.03E-05	yes
Aldehydes	1	0.07	2.61E-03	0.18	0.05	
Benzene	1	9.33E-04	3.48E-05	2.43E-03	6.09E-04	yes
Beryllium	2	6.90E-08	2.57E-09	1.80E-07	4.50E-08	yes
Formaldehyde	1	1.18E-03	4.40E-05	3.08E-03	7.70E-04	yes
Mercury	2	3.01E-07	1.12E-08	7.86E-07	1.97E-07	yes
Naphthalene	1	8.48E-05	3.16E-06	2.21E-04	5.53E-05	yes
PAH	1	1.68E-04	6.27E-06	4.38E-04	1.10E-04	yes
Propylene	1	2.58E-03	9.63E-05	6.73E-03	1.68E-03	
Sulfuric Acid	2/3	6.21E-03	2.32E-04	0.02	4.05E-03	
Toluene	1	4.09E-04	1.53E-05	1.07E-03	2.67E-04	yes
Xylenes	1	2.85E-04	1.06E-05	7.44E-04	1.86E-04	yes
		Total HAPs	1.48E-04	1.03E-02	2.58E-03	

1. Emissions based on AP-42 Compilation of Air Pollutant Emission Factors Volume I: Stationary Point and Area Sources; Tables 3.3-2 and 3.3-3 January, 1995.
2. Emissions based on Toxic Air Pollutant Emission Factors - A Compilation for Selected Air Toxics Compounds and Sources: October, 1990, EPA-450/2-90-011.
3 Emission factor for sulfuric acid is 8.9(S) ng/J. This corresponds to 20,688(S) lb/10_{12} Btu.

ATTACHMENT D

Table 5-1
Hazardous Air Pollutant Analysis
Caterpiller 275 kW Emergency Generator No.1
Mystic Educational Center
Mystic, Connecticut

07/11/97

Pollutants	CAS Number	Hazard Limiting Value, HLV (ug/m^3)	Stack Height (ft)	Stack Height (m)	Actual Distance to the Property Line (ft)	Actual Distance to the Property Line (m)	Distance X * (m)	Exhaust Flowrate (acfm)	Exhaust Flowrate (m^3/sec)	Maximum Emission Rate (lb/hr)	Maximum Allowable Stack Conc. (MASC) (ug/m^3)	Actual Stack Conc. (ASC) (ug/m^3)	Pass/Fail	ASC/MASC
Sulfuric Acid	7664-93-9	20	10.0	3.05	495.0	150.9	150.9	2,254	1.06	0.0162	42150	1917.88	Pass	0.046

* For stacks less than 20 meters:
Distance X is defined in The Regulations to be the larger of:
a = 10 meters, or
b = actual distance to the property line in meters.

In this case:

a, (m)	b, (m)
10.0	150.9

Therefore, Distance X = 150.9 meters

Fuel oil sulfur content = 0.30 %

FUSCO MANAGEMENT COMPANY, LLC

Fax Cover Sheet

DATE:	May 14, 1998	TIME:	9:37 AM
TO:	George Niles DPW - Eastern Region	PHONE: FAX:	860 823-5553 860-823-4799
FROM	Penny McCorison Fusco Management	PHONE: FAX:	860-536-4221(Mystic) 860-536-4221(Mystic)
RE:	Mystic Educational Center		

Number of pages including cover sheet: 6

Message

Please review and contact me should you have any questions. Thanks.

FUSCO MANAGEMENT COMPANY, LLC

MEMORANDUM

To: George Niles
DPW - Eastern Region

From: Penny McCorison
Fusco Management Company

Date: May 14, 1998

Re: Mystic Education Center
Hazardous Waste Audit/Removal

I have attached a copy of the Mystic Education Center's hazardous waste audit and waste removal estimate for your review. Please contact me should you want to proceed with the removal.

Environmental Services, Inc.
90 Brookfield Street
South Windsor, CT 06074
860-528-9500

Hazardous Waste/Connecticut Regulated Waste Audit
Facility Name: Mystic Education Center
Facility Location: Oral School Road, Mystic, CT
Facility Type:
Contact: Laraine Kulpowich
Date of Audit: 11/06/97 Project No: 97559 By: Kieran Flannery

Dear Ms. Kulpowich:

A hazardous waste/Connecticut regulated waste audit was performed at the above facility and revealed the storage of the following waste or products with no further use:

Hazardous Waste per 40CFR261.		Non-Hazardous Waste	
Kodak Print Flattening Solution	11-8 oz.	Waste Oil, 17 H Drums	2
Photo Flo 200 Solution	1-4 oz	SEA 30 weight Oil 1 Gal.	8
Hydrochloric Acid	1 Liter	Cement 30 Gal.	1
Sulfuric Acid	1 Liter		
Formaldehyde , 40 %	1 Gal.		
Glycerol	1 Gal.		
Methanol	1 Gal.		
Acetic Acid	1 Pint		
Hydrochloric Acid	2 Pints		
Nitric Acid	1 Pint		
Unknown	1 Liter		
Ammonium Hydroxide	4 Lbs.		
Ammonia, 27%	4 Lbs.		
Oil Based Paint 5 Gal.	18		
Paint Oil/Latex 1 Gal.	2		
Parts washer Solution 5 Gal.	1		
Mastic Remover 5 Gal	1		

Comments: The hazardous materials that are not being used at this facility are improperly stored and should be disposed of as soon as possible.

UNITED OIL RECOVERY, INC.
136 Gracey Avenue, Meriden, CT 06451-2270

BRIDGEPORT UNITED RECYCLING, INC.
50 Cross Street, Bridgeport, CT 06610

Land Disposal Restriction Form

Generator Name State of CT DPW.
Site Mystic Educational Center 240 Oral School Rd. Mystic CT Manifest Number CTF 10336007

Hazardous Waste. This waste is hazardous waste and therefore regulated under 40 CFR 268. This waste is banned from land disposal unless treated to the standards under 40 CFR 268 Subpart D. I understand that United Oil Recovery, Inc. and Bridgeport United Recycling, Inc. operate treatment systems that are regulated under the CWA. This waste is a _____ wastewater _____ nonwastewater as defined in this Subpart. Waste analysis data has been provided, if available.
The applicable hazardous waste numbers are checked or listed below.

Spent Solvent Wastes

___F001, ___F002, ___F003, ___F004, ___F005

- _____ Acetone
- _____ Benzene
- _____ n-Butyl Alcohol
- _____ Carbon Disulfide
- _____ Carbon Tetrachloride
- _____ Chlorobenzene
- _____ Cresol (m- and p- isomers)
- _____ Cresol (o- isomer)
- _____ Cyclohexanone
- _____ 1,2-Dichlorobenzene
- _____ Ethyl Acetate
- _____ Ethyl Benzene
- _____ Ethyl Ether
- _____ Isobutanol
- _____ Methanol
- _____ Methylene Chloride
- _____ Methyl Ethyl Ketone
- _____ Methyl Isobutyl Ketone
- _____ Nitrobenzene
- _____ Pyridine
- _____ Tetrachloroethylene
- _____ Toluene
- _____ 1,1,1-Trichloroethane
- _____ 1,1,2-Trichloroethane
- _____ 1,1,2-Trichloro-1,2,2-Trifluoroethane
- _____ Trichloroethylene
- _____ Trichlorofluoromethane
- ✓ Xylene

Other Hazardous Waste Numbers

_____ _____ _____ _____ _____

Characteristic Wastes

- _____ D001 Ignitable Liquids, High TOC (>10%)
- _____ D001 Ignitable Liquids, Low TOC (<10%)
- _____ D002 Corrosive Characteristic Wastes
- _____ D004 Arsenic
- _____ D005 Barium
- _____ D018 Benzene
- _____ D006 Cadmium
- _____ D019 Carbon tetrachloride
- _____ D021 Chlorobenzene
- _____ D022 Chloroform
- _____ D007 Chromium
- _____ D023 o-Cresol
- _____ D024 m-Cresol
- _____ D025 p-Cresol
- _____ D026 Cresol
- _____ D027 1,4-Dichlorobenzene
- _____ D028 1,2-Dichloroethane
- _____ D029 1,1-Dichloroethylene
- _____ D030 2,4-Dinitrotoluene
- _____ D032 Hexachlorobenzene
- _____ D033 Hexachlorobutadiene
- _____ D034 Hexachloroethane
- _____ D008 Lead
- _____ D035 Methyl ethyl ketone
- _____ D036 Nitrobenzene
- _____ D037 Pentrachlorophenol
- _____ D038 Pyridine
- _____ D010 Selenium
- _____ D011 Silver
- _____ D039 Tetrachloroethylene
- _____ D040 Trichloroethylene
- _____ D041 2,4,5-Trichlorophenol
- _____ D042 2,4,6-Trichlorophenol
- _____ D043 Vinyl chloride

The information provided here is true and accurate to the best of my knowledge. The information here is submitted solely to comply with the LDR found in 40 CFR 268. *(Check here if the waste meets the treatment standards)* _____ I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

Signature Harold Monroe Jr. **Title** _____

Print Name Harold D Monroe Jr. **Date** 5-7-02

White - Original Yellow - Customer Copy

UNITED
INDUSTRIAL
SERVICES
DIVISION OF UNITED OIL RECOVERY, INC.

136 GRACEY AVENUE MERIDEN, CT 06451-2270
TEL. (203) 238-6745
FAX (203) 630-2503

WORK ORDER

Work Order No : 00282152 000001 Date : 05/07/02

STA035 GC: 1 STA035STA101

STATE OF CT DEPT PUBLIC WORKS
STATEWIDE SERVICES
165 CAPITOL AVE

HARTFORD, CT 06106
JOSEPH CASSIDY
(860)713-5705

MYSTIC EDUCATIONAL CENTER
240 ORAL SCHOOL RD

MYSTIC, CT
DAVID SURPRENANT
( ) -

1503DPLH1 ST OF CT,MYSTIC ED / PAIN 120 GALS
MANIFEST: CTF103307 P.O. #: PO#MEC01223 4x55 Gal/hr Drums

1478DN4 ST OF CT,MYSTIC ED / #2 O 875 P
1 PALLET of 5 Gallon pails

1478DN4 ST OF CT,MYSTIC ED / #2 O 2000 P
8 DRUMS

1452DLHN1 ST OF CT,MYSTIC ED CEN / 85 GALS 2 Drums

SCOPE OF WORK: (TS) LIFTGATE TO REMOVE 17 DRUMS AND 1 PALLET/DELIVER 14-17H STEEL DRUMS/2 SETS OF RINGS,BOLTS,GASKETS FOR STEEL 17H DMS 1-ROLL SHRINK WRAP

CALLED IN BY: BILL COWLES/FAX REQ TIME: NOON-12:30
DAY/HRS OPER: 8-3 EXP QTY: 18
LIFTGATE: Y REP(S): Awc/TS
SITE CONTACT: HAROLD MONROE 860-250-6034 ( ) -

DRIVER NAME Dave TRUCK # 535 TRL# _____
LEAVE YARD 11:00 ARRIVE SITE 12:00
LEAVE SITE 2:15 ARRIVE PLANT _____
ON SITE TIME 1.25 HRS MANIFEST/BOL# CTF103607
SOURCE OF WASTE: DRUMS 14 TANK ____ OTHER _____
APPROX. QUANTITY OF SLUDGE _____
LIGHT WEIGHT _____ GROSS WEIGHT _____
CERTIFIED SCALE USED _____
DRIVER COMMENTS 1 Pallet

THANK YOU FOR THE OPPORTUNITY TO SERVE YOUR WASTE REMOVAL NEEDS

CUSTOMER AGREES TO PAY SERVICE CHARGES OF 1 1/2% PER MONTH OR THE HIGHEST RATE ALLOWED BY LAW, (WHICHEVER IS LESSER), FROM THE DUE DATE OF EACH INVOICE TO DATE OF PAYMENT. IN THE EVENT CUSTOMER'S ACCOUNT IS PLACED FOR COLLECTION, CUSTOMER AGREES TO PAY ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY'S FEES.

CUSTOMER AGREES TO PAY SERVICE CHARGES OF 1½% PER MONTH OR THE HIGHEST RATE ALLOWED BY LAW, (WHICHEVER IS LESSER), FROM THE DUE DATE OF EACH INVOICE TO DATE OF PAYMENT. IN THE EVENT CUSTOMER'S ACCOUNT IS PLACED FOR COLLECTION, CUSTOMER AGREES TO PAY ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY'S FEES.

Signature Harold Monroe Date 5/7/02

EPHM-2 REV. 5/97

STATE OF CONNECTICUT

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Hazardous Waste MANIFEST PROGRAM
79 Elm St., Hartford, CT 06106-5127

Please type (or print) *(Form designed for use on elite (12-pitch) typewriter.)*

FOR STATE USE ONLY

COPY 6: GENERATOR MAILS TO DESTINATION STATE

CT F1033607

FOR SPILLS WITHIN CONNECTICUT, CONTACT CT DEP - OIL AND CHEMICAL SPILL RESPONSE AT (860) 424-3338

IN THE EVENT OF A SPILL, CONTACT THE NATIONAL RESPONSE CENTER, U.S. COAST GUARD 1-800-424-8802.

GENERATOR

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law, but may be required by State law.
	C.A.N.	0.3.3.0.7		

3. Generator's Name and Mailing Address
STATE OF CT D.P.W.
165 CAPITAL AVENUE - UST UNIT HARTFORD, CT 06106

4. Generator's Phone (860) 566-6322

A. State Manifest Document Number: CT F1033607

B. G.S.I. (Gen. Site Address): MYSTIC EDUCATIONAL CENTER, 240 ORAC SCHOOL RD, MYSTIC, CT

5. Transporter 1 Company Name: UNITED INDUSTRIAL SERVICES
6. US EPA ID Number: C.T.D.0.2.1.8.1.6.8.8.9

7. Transporter 2 Company Name:
8. US EPA ID Number:

C. S.T.I. (Trans. Lic. Plate #): 321264
D. Tran. Phone (203) 238-6745

9. Designated Facility Name and Site Address
UNITED OIL RECOVERY INC.
136 GRACEY AVENUE
MERIDEN, CT 06451

10. US EPA ID Number: C.T.D.0.2.1.8.1.6.8.8.9

E. S.T.I. (Trans. Lic. Plate #):
F. Tran. Phone ( )
G. State Facility's ID (Not Required):
H. Facility's Phone: 203 238-6745

11. US DOT Description *(Including Proper Shipping Name, Hazard Class, and ID Number)*	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, WASTE PAINT RELATED MATERIAL, (XYLENE), 3, UN1263, PGII	XX4	D.M	XX120	D	EPA / STATE NONE
b. STATE REGULATED WASTE NONE, NONE	XX1	CW	XX875	P	EPA NONE / STATE CR05/
c. STATE REGULATED WASTE NONE, NONE	XX8	C.W	X2000	P	EPA NONE / STATE CR05/
d. STATE REGULATED WASTE NONE, NONE	XX2	D.M	XXX85	B	EPA NONE / STATE CR02/

J. Additional Descriptions for Materials Listed Above
a. STAINS, CLEANERS, DYE
b. #2 FUEL OIL DEBRIS, ABSORBENT MATERIAL & SAND
c. #2 FUEL OIL DEBRIS, ABSORBENT MATERIAL & SAND
d. DRAIN OILS

K. Handling Codes for Wastes Listed Above

	Interim	Final		Interim	Final
a.			c.		
b.			d.		

15. Special Handling Instructions and Additional Information
1478DN4 EMERGENCY RESPONSE GUIDE # N/A
1478DN4 EMERGENCY RESPONSE GUIDE # N/A
1452DLHN1 EMERGENCY RESPONSE GUIDE # N/A

Point of Departure:

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and all applicable State laws and regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR,** if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
Harold D Monroe	Harold D Monroe Jr	05	07	02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
DAVID ISABELLE	[signature]	05	07	02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

EPA Form 8700-22 (Rev. 9/91) Form Approved OMB No.2050-0039

COPY 6: GENERATOR MAILS TO DESTINATION STATE

EPHM-2 REV. 5/97

STATE OF CONNECTICUT

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Hazardous Waste MANIFEST PROGRAM
79 Elm St., Hartford, CT 06106-5127

Please type (or print) *(Form designed for use on elite (12-pitch) typewriter.)*

FOR STATE USE ONLY

COPY 7: GENERATOR MAILS TO GENERATOR STATE

CT F 1033607

IN THE EVENT OF A SPILL, CONTACT THE NATIONAL RESPONSE CENTER, U.S. COAST GUARD 1-800-424-8802. FOR SPILLS WITHIN CONNECTICUT, CONTACT CT DEP - OIL AND CHEMICAL SPILL RESPONSE AT (860) 424-3338

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C.R.W. . . . . Manifest Document No.: . . . . . 2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but may be required by State law.

3. Generator's Name and Mailing Address
STATE OF CT D.P.W.
165 CAPITAL AVENUE - UST UNIT HARTFORD, CT 06106

4. Generator's Phone (860) 566-6382

A. State Manifest Document Number: CT F1033607

B. G.S.I. (Gen. Site Address): MYSTIC EDUCATIONAL CENTER, 240 ORAL SCHOOL RD, MYSTIC, CT

5. Transporter 1 Company Name: UNITED INDUSTRIAL SERVICES
6. US EPA ID Number: C.T.D.0.2.1.0.1.6.0.8.9

7. Transporter 2 Company Name:
8. US EPA ID Number: . . . . . .

C. S.T.I. (Trans. Lic. Plate #): [illegible]
D. Tran. Phone (203) 235-6745

9. Designated Facility Name and Site Address
UNITED OIL RECOVERY INC.
136 GRACEY AVENUE
MERIDEN, CT 06451

10. US EPA ID Number: C.T.D.0.2.1.0.1.6.0.8.9

E. S.T.I. (Trans. Lic. Plate #):
F. Tran. Phone ( )
G. State Facility's ID (Not Required):
H. Facility's Phone: 203 235-6745

11. US DOT Description *(Including Proper Shipping Name, Hazard Class, and ID Number)*	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, WASTE PAINT RELATED MATERIAL, (XYLENE), 3, UN1263, PGII	XX4	D.M.	XX120	G	EPA / STATE
b. STATE REGULATED WASTE NONE, NONE	XX1	CW	XX875	P	EPA / STATE
c. STATE REGULATED WASTE NONE, NONE	XX8	C.W.	X2000	P	EPA / STATE
d. STATE REGULATED WASTE NONE, NONE	XX2	D.M.	XXX85	G	EPA / STATE

J. Additional Descriptions for Materials Listed Above
a. STAINS, CLEANERS, DYE
b. #2 FUEL OIL DEBRIS, CODORDENS, MATERIAL & SAND
c. #2 FUEL OIL DEBRIS, ABSORBENS, DRAIN OILS
d. MATERIAL & SAND

K. Handling Codes for Wastes Listed Above

	Interim	Final		Interim	Final
a.			c.		
b.			d.		

15. Special Handling Instructions and Additional Information
1478DN4 EMERGENCY RESPONSE GUIDE # N/A
1478DN4 EMERGENCY RESPONSE GUIDE # N/A
1452DLHN1 EMERGENCY RESPONSE GUIDE # N/A

Point of Departure:

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and all applicable State laws and regulations.

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Printed/Typed Name: Harold D Monroe
Signature: Harold D Monroe Jr
Month Day Year: 05 07 02

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DAVID ISABELLE
Signature: [illegible]
Month Day Year: 05 07 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year: . . .

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name:
Signature:
Month Day Year: . . .

GENERATOR / TRANSPORTER / FACILITY

EPA Form 8700-22 (Rev. 9/91) Form Approved OMB No.2050-0039

COPY 7: GENERATOR MAILS TO GENERATOR STATE

EPHM-2 REV. 5/97

STATE OF CONNECTICUT

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Hazardous Waste MANIFEST PROGRAM
79 Elm St., Hartford, CT 06106-5127

Please type (or print) *(Form designed for use on elite (12-pitch) typewriter.)*

FOR STATE USE ONLY

FOR SPILLS WITHIN CONNECTICUT, CONTACT CT DEP - OIL AND CHEMICAL SPILL RESPONSE AT (860) 424-3338

IN THE EVENT OF A SPILL, CONTACT THE NATIONAL RESPONSE CENTER, U.S. COAST GUARD 1-800-424-8802

COPY 8: GENERATOR RETAINS

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law, but may be required by State law.
	C.T.D.R.M.			

3. Generator's Name and Mailing Address STATE OF CT D.R.M. 165 CAPITAL AVENUE - UST UNIT HARTFORD, CT 06106	A. State Manifest Document Number CT F1033607
4. Generator's Phone (860) 536-6322	B. G.S.I. (Gen. Site Address) ARCTIC CONSTITUTION CENTER [illegible]
5. Transporter 1 Company Name UNITED INDUSTRIAL SERVICES 6. US EPA ID Number C.T.D.0.2.1.8.1.6.8.8.9	MYSTIC, CT
7. Transporter 2 Company Name 8. US EPA ID Number	C. S.T.I. (Trans. Lic. Plate #) [illegible]
	D. Tran. Phone ( )
9. Designated Facility Name and Site Address UNITED OIL RECOVERY INC. 136 BRADLEY AVENUE MERIDEN, CT 06451 10. US EPA ID Number C.T.D.0.2.1.8.1.6.8.8.	E. S.T.I. (Trans. Lic. Plate #)
	F. Tran. Phone ( )
	G. State Facility's ID (Not Required)
	H. Facility's Phone

11. US DOT Description *(Including Proper Shipping Name, Hazard Class, and ID Number)*	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, WASTE PAINT RELATED MATERIAL, (XYLENE), 3, UN1263, PGII	xx4		xx120		EPA STATE
b. STATE REGULATED WASTE NONE, NONE	xx1	CW	xx875		EPA STATE
c. STATE REGULATED WASTE NONE, NONE	xx8		xx2000		EPA STATE
d. STATE REGULATED WASTE NONE, NONE	xx2		xxx85		EPA STATE

J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above			
		Interim	Final	Interim	Final
a.	c.	a.		c.	
b.	d.	b.		d.	

15. Special Handling Instructions and Additional Information
EMERGENCY RESPONSE GUIDE # N/A
EMERGENCY RESPONSE GUIDE # N/A
EMERGENCY RESPONSE GUIDE # N/A

Point of Departure:

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Printed/Typed Name	Signature	Month	Day	Year
Harold D Monroe	Harold D Monroe Jr	[illegible]	[illegible]	[illegible]

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
David Lasteli	[illegible]	[illegible]	[illegible]	[illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

CT F 1033607

EPA Form 8700-22 (Rev. 9/91) Form Approved OMB No.2050-0039.

COPY 8: GENERATOR RETAINS

STATE OF CONNECTICUT

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Hazardous Waste MANIFEST PROGRAM
79 Elm St., Hartford, CT 06106-5127

Please type (or print) (Form designed for use on elite (12-pitch) typewriter.)

FOR STATE USE ONLY

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C R W
Manifest Document No.: 0 3 3 0 7
2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but may be required by State law.

3. Generator's Name and Mailing Address
STATE OF CT D.P.W.
165 CAPITAL AVENUE - UST UNIT HARTFORD, CT 06106
4. Generator's Phone (860) 566-6322

A. State Manifest Document Number: CT F 103607
B. State Gen. Site Address: MYSTIC EDUCATIONAL CENTER 240 ORAL SCHOOL RD MYSTIC, CT

5. Transporter 1 Company Name: UNITED INDUSTRIAL SERVICES
6. US EPA ID Number: C.T.D.0.2.1.8.1.6.8.8.9
C. State Trans. Lic. Plate #: 3K12GA
D. Trans. Phone: (203) 238-6745

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Trans. Lic. Plate #:
F. Trans. Phone:

9. Designated Facility Name and Site Address
UNITED OIL RECOVERY INC.
136 GRACEY AVENUE
MERIDEN, CT 06451
10. US EPA ID Number: C.T.D.0.2.1.8.1.6.8.8.9
G. State Facility's ID (Not Required):
H. Facility's Phone: 203-238-6745

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ, WASTE PAINT RELATED MATERIAL, (XYLENE), 3, UN1263, PGII	XX4	D M	XX120	G	D001/U239 NONE
b. STATE REGULATED WASTE NONE, NONE	XX1	CW	XX875	P	NONE CR05
c. STATE REGULATED WASTE NONE, NONE	XX8	CW	X2000	P	NONE CR05
d. STATE REGULATED WASTE NONE, NONE	XX2	D M	XX85	G	NONE CR02

GENERATOR

J. Additional Descriptions for Materials Listed Above
PAINT RELATED MATERIALS, ABSORBENTS, #2 FUEL OIL DEBRIS, STAINS, CLEANERS, DYE MATERIAL & SAND
a. #2 FUEL OIL DEBRIS, ABSORBENT, DRAIN TILE MATERIAL & SAND

K. Handling Codes for Wastes Listed Above
Interim: a. S03 750 S01 b. S01 S02 750
Final: a. S03 750 b. S01 S02 750

15. Special Handling Instructions and Additional Information
EMERGENCY RESPONSE GUIDE #127 EMERGENCY PHONE # (203) 238-6745
1478DN4 EMERGENCY RESPONSE GUIDE # N/A
1478DN4 EMERGENCY RESPONSE GUIDE # N/A
1452DLHN1 EMERGENCY RESPONSE GUIDE # N/A

Point of Departure:

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Printed/Typed Name: Harold D Monroe
Signature: Harold D Monroe Jr
Month Day Year: 05 07 02

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DAVID ISABELLE
Signature: David Isabelle
Month Day Year: 05 07 02

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

FACILITY

19. Discrepancy Indication Space

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Printed/Typed Name
Signature
Month Day Year: 05 07 02

FOR SPILLS WITHIN CONNECTICUT, CONTACT CT DEP - OIL AND CHEMICAL SPILL RESPONSE AT (860) 424-3338

IN THE EVENT OF A SPILL, CONTACT THE NATIONAL RESPONSE CENTER, U.S. COAST GUARD 1-800-424-8802

EPA Form 8700-22 (Rev. 9/94) Form Approved OMB No. 2050-0039

COPY 1: FACILITY MAILS TO DESTINATION STATE

To: Harold Monroe Mystic For your files

STATE OF CONNECTICUT
DEPARTMENT OF
ENVIRONMENTAL PROTECTION
79 Elm Street
Hartford, CT 06106-5127
http://dep.state.ct.us

Bureau of Waste Management
Oil and Chemical Spill Response Division

REPORT OF PETROLEUM OR CHEMICAL PRODUCT DISCHARGE, SPILLAGE OR RELEASE.

1. When did the incident occur? Date: *05/20/03* Time: *5:30 p.m.*
   month/day/year
2. Where did the incident occur?

The Mystic Education Center, 24 Oral School Rd., Mystic, CT 06355 at the (no. 1) 10,000 gallon underground heating oil storage tank near the main administration building.

3. How did the incident occur? (describe the cause) *Tank was overfilled. Ball valve in vent line of the tank closed as Dime Oil was filling.*

4. Under whose control was the chemical or petroleum product at the time of the incident?

   Name: *Randy Leduc, Dime Oil (Delivery Driver)*
   Mailing & Street address: *93 Industry Lane*
   Town: *Waterbury* State: *CT* Zip: *06704* phone: *203-754-5334*

5. Who is the owner of the property onto which the spill occurred?
   State of CT, Department of Public Works

   If this is a corporate property or property owned jointly, who is that represents the owner?
   Corporate property ∉ Property owned jointly ∉

   Name: *State of CT, Department of Public Works*

   Mailing & street address: *Room G-39 165 Capitol Avenue*

   Town: *Hartford* State: *CT* Zip: *06106* Phone: *860-713-5678*

6. When was the incident verbally reported to the Department of Environmental Protection?
   Date: *05/20/03* Time: *~5:30 p.m.?*
   Month/day/year

7. Who reported the incident and whom were they representing?

Name: *Local Fire Department*

Mailing & Street Address: *Mystic Education Center, 240 Oral School Rd.*

Town: *Mystic* State: *CT* Zip: *06355* Phone: *860-536-4221*

8. What were the chemicals or petroleum products released, spilled or discharged? Give an exact description of each of the materials involved in the incident, including the chemical names, percent concentrations, trade names, etc.

   #2 heating oil

   If the chemicals are extremely hazardous substances or CERCLA hazardous substances they must be identified as such and include the reportable quantity (RQ). Please attach a Material Safety Date Sheet (MSDS) for each chemical involved.
   N/A

   What were the quantities of chemicals that were released, spilled or discharged to each environmental medium (air, surface water, soil, and ground water)? [NOTE: Connecticut General Statutes requires the reporting of any amount of any substance or material released to the environment].

   The quantity of oil that spilled was estimated to be about 40 gallons.

9. Did any of the chemical(s) travel beyond the property line? [NOTE: Materials that Enter the ground water are considered have gone beyond the property line.]
   No.

10. What actions were taken to respond to and contain the release, spill or discharge?
    The product spilled onto the ground around the tank. Speedi-dry was used to absorb and contain spill. All ground soil with product was shoveled up and placed into containers for proper disposal off site. No oil entered any water body or catch basin. A representative from DEP Hazmat, Jeff Chandler , responded to the scene and witnessed some of the clean up actions.

11. What actions are being taken to prevent reoccurrence of an incident of this type? (Attach additional sheets if necessary) *Dime oil has been directed to deliver only during working hours of DPW employees so they can attend and oversee all oil*

deliveries. In addition, new tank gage, alarm system and shut off valve are to be installed within the next month as the existing equipment is old and not reliable.

12. Were there any injuries as a result of the incident? If so, list the names of exposed Individuals, their addresses, phone numbers and describe their injuries. (Attach additional sheets if necessary)
    None

    Name: _____

    Mailing & street address: _____

    Town: _____ State: ____ Zip: _____ Phone: _____

13. What is the appropriate advice regarding medical attention necessary for exposed individuals? *N/A*

14. Are there any known or anticipated health risks, acute or chronic, associated with the Release of this chemical or medical advice that should be communicated?
    None

15. Was the incident completely cleaned up by the time this report was submitted? If not, What are the anticipated remedial actions and their duration?

Oily waste, including sand, speedi-dry, oil absorbents and any oil contaminated soil was collected and placed in containers and will be manifested for disposal as a regulated waste.

16. CERTIFICATION: I hereby affirm that the foregoing statement is true to the best of my knowledge.

	DPW Facilities Administrator	*05/29/03*
Signature	Title	Date

Manuel Becerra	*860-713-5660*
Print name	telephone number

Department of Public Works, Room G-39 165 Capitol Ave, Hartford, CT 06106

Street Address/P.O. Box City/Town State & Zip

Connecticut Department of Environmental Protection
Oil and Chemical Spill Response Division
Report of Petroleum or Chemical Product Discharge, Spillage or Release

1. When did the incident occur? Date **10/18/04** Time **~6:30am**
month/day/year

2. Where did the incident occur? **Boiler room floor of Administration Building, Mystic Education Center, Oral School Road, Mystic CT**

3. How did the incident occur? (Describe the cause)
#2 heating oil leaked from a defective seal for the fuel filter in the feed line to the boiler. A contractor had performed annual service on the boiler on 10/17/04 during which the filter and seal were replaced. The boiler ran for several hours before the leak occurred.

4. Under whose control was the hazardous material at the time of the incident?
Name: **CT Department of Public Works**
Mailing & Street Address: **Room G-4 165 Capitol Avenue**
Town: **Hartford** State: **CT** Zip:**06106** Phone: **860-713-5678**

5. Who is the owner of the property onto which the spill occurred?
State of CT, Department of Public Works
If this is a corporate property or jointly owned property, who represents the owner?
Corporate Property Jointly-owned property
Name:_____
Mailing & Street address_____
Town:_____ State:____ Zip:_____ Phone:_____

6. When was the incident verbally reported to the Department of Environmental Protection?
Date **10 / 18 / 04** Time **6:40 am**
Month/day/year

7. Who reported the incident and whom were they representing?
Old Mystic Fire Department contacted Groton Sub base fire department who contacted DEP

8. What were the chemicals or petroleum products, etc. released, spilled or discharged? Give an exact description of each of the materials involved in the incident, including chemical names, percent concentrations, trade names, etc. If the chemicals are Extremely Hazardous substances or CERCLA hazardous substances they must be identified as such and include the reportable quantity (RQ). Please attach a Material Safety Data Sheet (MSDS) for each chemical involved. What were the quantities of hazardous materials that were released, spilled or discharged to each environmental medium (air, surface water, soil, and/or ground water)? [NOTE: Connecticut General Statutes requires the reporting of any amount of any substance or material released to the environment].
Approximately 300 gallons of #2 heating oil

9. Did any of these hazardous materials travel beyond the property line? [NOTE: Materials that enter the ground water are considered to have gone beyond the property line.] **No, oil was contained on the concrete floor and within a sump. The sump pump was turned off.**

10. What actions were taken to respond to and contain the release, spill or discharge? **DEP representative, Ron Wofford, and a spill response contractor, Environmental Services, arrived on the scene at about 7:45 am. A vacuum tanker was used to vacuum up the oil in the sump and on the floor. Absorbent booms and pads were placed on water surface to collect residual oil in sump pit.**

11. What actions are being taken to prevent reoccurrence of an incident of this type? (Attach additional sheets if necessary.) **We have been unable to ascertain how the seal was damaged. It is not known whether the defect in the seal occurred during manufacturing, while it was in storage or during installation. DPW can only take action to prevent damage to spare parts that might occur while in storage on site. Seals and filters are stored on site so we will make provisions for safer storage of parts going forward.**

12. Were there any injuries as a result of the incident? If so, list the names of injured individuals, their addresses, phone numbers and describe their injuries. (Attach additional sheets if necessary) **none**

Name:_____

Mailing & Street Address:_____

Town:_____State:_____Zip:_____Telephone:_____

13. What is the appropriate advice regarding medical attention necessary for exposed individuals? **N/A**

14. Are there any known or anticipated health risks, acute or chronic, associated with the release of these hazardous materials or medical advice that should be communicated? **no**

15. Was the incident completely cleaned up by the time this report was submitted? If not, what are the anticipated remedial actions and their duration? **A trace amount of oil from hairline cracks in the concrete sump wall continues to dribble out. Absorbent pads are placed on the water surface to collect it. In addition, the sump pump does not pump the sump dry; it is set to leave more than a foot of water in the bottom of the pit when it deactivates.**

16. CERTIFICATION: I hereby affirm that the foregoing statement is true to the best of my knowledge.

_____ _____

Signature Date

Jacquelyn Brown, Env. Prot. Prog. Specialist 860-713-5678

SOB, 165 Capitol Ave. Hartford, CT 06106

This form may be reproduced as long as it contains all of the information requested and is on an 81/2 X 11 sheet of white paper, black type format. For serious incidents the questions may be answered in narrative format which must include the preparer's affidavit. **Mail to:**

State of Connecticut
Department of Environmental Protection
Bureau of Waste Management
Oil and Chemical Response Division
79 Elm Street
Hartford, CT 06106-5127
www.dep.state.ct.us
Phone: Routine calls (860) 424-3024; Emergency 24 hrs (860) 424-3338

Legal Pad TOPS

approx 100G
30 IN day tank
Case # 2005-01170

Harold: Reported to work: 7:40am
Called: Dave G
Old Mystic Fire
Dawn → Michael
Old Mystic Fire called DEP

Huntington called to
inspect generator.

Harold noticed Liquid/odor
Pump on generator
running for no apparent
reason. Harold shut it down
Quick dry & Pads spread
over spill. Used
cones to block traffic.
People had driven
through it. Harold takint
pictures.
Inspected 1/29/04 - "unit in
Excellent condition

Pump that Fills Day tank Running

9:15 DEP on site Ron

Dave said to call: 9:20

Environmental Services

Mike → 860-528 9500

Bruce

ESI

Diesel fuel

1-508-226-2847- Mike

Primary Responder: 9:35a

10:15 - ESI Arrived (Mike)

11:15 Huntington

11:30 - clean up began

11:55 - Jackie

12:15 - Suck Truck

12:45 - Ken - DEP Left.

2:00 Jackie Left

snow/stone vacuumed to
First Line on
concrete pad

Required:
Specific Discharge Permit

Seperator a shed

switch stuck to pressurize
the day tank.

Boilers: Contractor to
service

{ order Speedi Dri - 10 bags
paper towels

Covered area around
generator with Poly
Pick along curbins and

call Lynn Manolakis 830am 2/26/05

Curb cut North End of parking LOT.

306 G
9 Barrels
4 Guys & Mike
4:30 PM

Poly approx. 4'' under soil under generator
? need control.

Connecticut Department of Environmental Protection
Oil and Chemical Spill Response Division
Report of Petroleum or Chemical Product Discharge, Spillage or Release

1. When did the incident occur? Date *2/26/05* Time *~7:40 am*
month/day/year

2. Where did the incident occur? *At the emergency generator just north of the main administration building at the Mystic Education Center, 240 Oral School Road in Groton CT.*

3. How did the incident occur? (Describe the cause)
Float switch in day tank that supplies fuel to generator failed. Day tank pump continued to pump to diesel fuel from aboveground storage tank. Day tank overfilled and seal failed allowing oil to spill out on to surrounding ground and paved parking area.

4. Under whose control was the hazardous material at the time of the incident?
Name: *CT DPW and Dimeo Properties (DPW's property manager)*
Mailing & Street Address: *DPW, Room G-4 165 Capitol Avenue*
Town: *Hartford* State: *CT* Zip:*06106* Phone: *860-713-5678*

5. Who is the owner of the property onto which the spill occurred?
State of CT DPW
If this is a corporate property or jointly owned property, who represents the owner?
Corporate Property Jointly-owned property
Name:_____
Mailing & Street address_____
Town:_____ State:____ Zip:_____ Phone:_____

6. When was the incident verbally reported to the Department of Environmental Protection?
Date *2 / 26 / 05* Time *~7:45 am* *Incident # 2005-01170*
Month/day/year

7. Who reported the incident and whom were they representing?
Name: *Local Fire Department(Old Mystic)*
Mailing & Street Address:
Town: State: Zip: Phone:

8. What were the chemicals or petroleum products, etc. released, spilled or discharged? Give an exact description of each of the materials involved in the incident, including chemical names, percent concentrations, trade names, etc. If the chemicals are Extremely Hazardous substances or CERCLA hazardous substances they must be identified as such and include the reportable quantity (RQ). Please attach a Material Safety Data Sheet (MSDS) for each chemical involved. What were the quantities of hazardous materials that were released, spilled or discharged to each environmental medium (air, surface water, soil, and/or ground water)? [NOTE: Connecticut General Statutes requires the reporting of any amount of any substance or material released to the environment].

Approximately 150 gallons of #2 diesel oil

9. Did any of these hazardous materials travel beyond the property line? [NOTE: Materials that enter the ground water are considered to have gone beyond the property line.] *It is not expected that the oil has affected groundwater.*

10. What actions were taken to respond to and contain the release, spill or discharge? *DPW personnel, upon arriving on site, turned off pump and applied absorbent on fuel that pooled on pavement. Local fire department was contacted who in turn called DEP. DEP rep Ron Wofford arrived about (9:15) and John Aceto arrived shortly thereafter and helped direct spill clean up efforts. Spill response contractor, Environmental Services, arrived about 10:15 am and spread more absorbent and then vacuumed up any visible oil, stained snow and absorbent. Simply green was used to scrub oily stains on pavement. Any loose stained soil and gravel surrounding the generator was dug up and containerized. Approximately 306 gallons of snow and oily debris were vacuumed and about 9 drums filled with oily debris.*

11. What actions are being taken to prevent reoccurrence of an incident of this type? (Attach additional sheets if necessary.) *The following proposed actions are being investigated: Day tank with float controlled pump system will be eliminated and oil will be drawn directly from aboveground supply tank as needed. A containment system with impermeable base and rain shield will be constructed around supply tank and generator. One or both will be implemented.*

12. Were there any injuries as a result of the incident? If so, list the names of injured individuals, their addresses, phone numbers and describe their injuries. (Attach additional sheets if necessary*) none*

Name:_____

Mailing & Street Address:_____

Town:_____State:_____Zip:_____Telephone:_____

13. What is the appropriate advice regarding medical attention necessary for exposed individuals? N/A

14. Are there any known or anticipated health risks, acute or chronic, associated with the release of these hazardous materials or medical advice that should be communicated? *no*

15. Was the incident completely cleaned up by the time this report was submitted? If not, what are the anticipated remedial actions and their duration?. *Some oil remains in the curbed area around the generator because the ground was frozen. A plastic tarp was left of top graveled area. Any contaminated material left in place will be removed within the next month or so. A LEP may be contracted to plan and document excavation and clean up.*

16. CERTIFICATION: I hereby affirm that the foregoing statement is true to the best of my knowledge.

_____

Signature Date *3/1/05*

Jacquelyn Brown, Env. Prot. Prog. Specialist 860-713-5678

SOB, 165 Capitol Ave. Hartford, CT 06106

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State of Connecticut
Department of Environmental Protection
Bureau of Waste Management
Oil and Chemical Response Division
79 Elm Street
Hartford, CT 06106-5127
www.dep.state.ct.us
Phone: Routine calls (860) 424-3024; Emergency 24 hrs (860) 424-3338

Feb 26, 2005

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Hazardous Waste MANIFEST PROGRAM
79 Elm St., Hartford, CT 06106-5127

Please type (or print) (Form designed for use on elite (12 pitch) typewriter.)

FOR STATE USE ONLY

FOR SPILLS WITHIN CONNECTICUT CONTACT CT DEP - OIL AND CHEMICAL SPILL RESPONSE AT (860) 424-3338

IN THE EVENT OF A SPILL, CONTACT THE NATIONAL RESPONSE CENTER, U.S. COAST GUARD 1-800-424-8802

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CTF000028712 Manifest Document No.: 06583

2. Page 1 of 1

Information in the shaded areas is not required by Federal law but may be required by State law.

3. Generator's Name and Mailing Address
MYSTIC EDUCATIONAL CENTER
240 ORAL SCHOOL ROAD
MYSTIC CT 06355

4. Generator's Phone (860) 713-5678

A. State Manifest Document Number: CT F 1066583

B. G.S.I. (Gen. Site Address): SAME

5. Transporter 1 Company Name: ENVIRONMENTAL SERVICES, INC.

6. US EPA ID Number: CTD018811602

7. Transporter 2 Company Name

8. US EPA ID Number

C. S.T.I. (Trans. Lic. Plate #): CT 124

D. Tran. Phone (860) 528-9500

9. Designated Facility Name and Site Address
NORTHLAND ENVIRONMENTAL, INC.
275 ALLENS AVENUE
PROVIDENCE RI 02905

10. US EPA ID Number: RID040098352

E. S.T.I. (Trans. Lic. Plate #)

F. Tran. Phone ( )

G. State Facility's ID (Not Required)

H. Facility's Phone: 401-781-6340

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE FLAMMABLE LIQUIDS, N.O.S. (PETROLEUM NAPTHA), 3, UN1993, PGII. (RQ: D001)	001	CF	00750	P	EPA D001 / STATE NONE
b. WASTE HYPOCHLORITES, INORGANIC, N.O.S. (SODIUM HYPOCHLORITE), 5.1, UN3212, PGIII.	001	DM	00030	P	EPA D001 / STATE NONE
c. NON-REGULATED MATERIAL, NONE, NONE, NONE.	001	DM	00250	P	EPA NONE / STATE CR04
d.					EPA / STATE

J. Additional Descriptions for Materials Listed Above
a. (I) 3D79687-002/5 LABPACK ROOF COATING
b. (I) 3D79687-003/85 LABPACK POOL CHEMICAL
c. 3D79687-001/55 LABPACK CARPET SHAMPOO
d.

K. Handling Codes for Wastes Listed Above

	Interim	Final	Interim	Final
a.	S01		S01	
b.	S01		d.	

15. Special Handling Instructions and Additional Information
a)ERG# 128 b)ERG# 140 c)

Emergency Contact #
1(401) 781-6340
ESI JOB # 2005-0918
ESI PO# 23610

Point of Departure:

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, and all applicable State laws and regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: JAMES F MEYERHAN AGENT FOR | Signature: [signature] | Month Day Year: 10 6 05

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Michael W Fox | Signature: [signature] | Month Day Year: 10 6 05

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

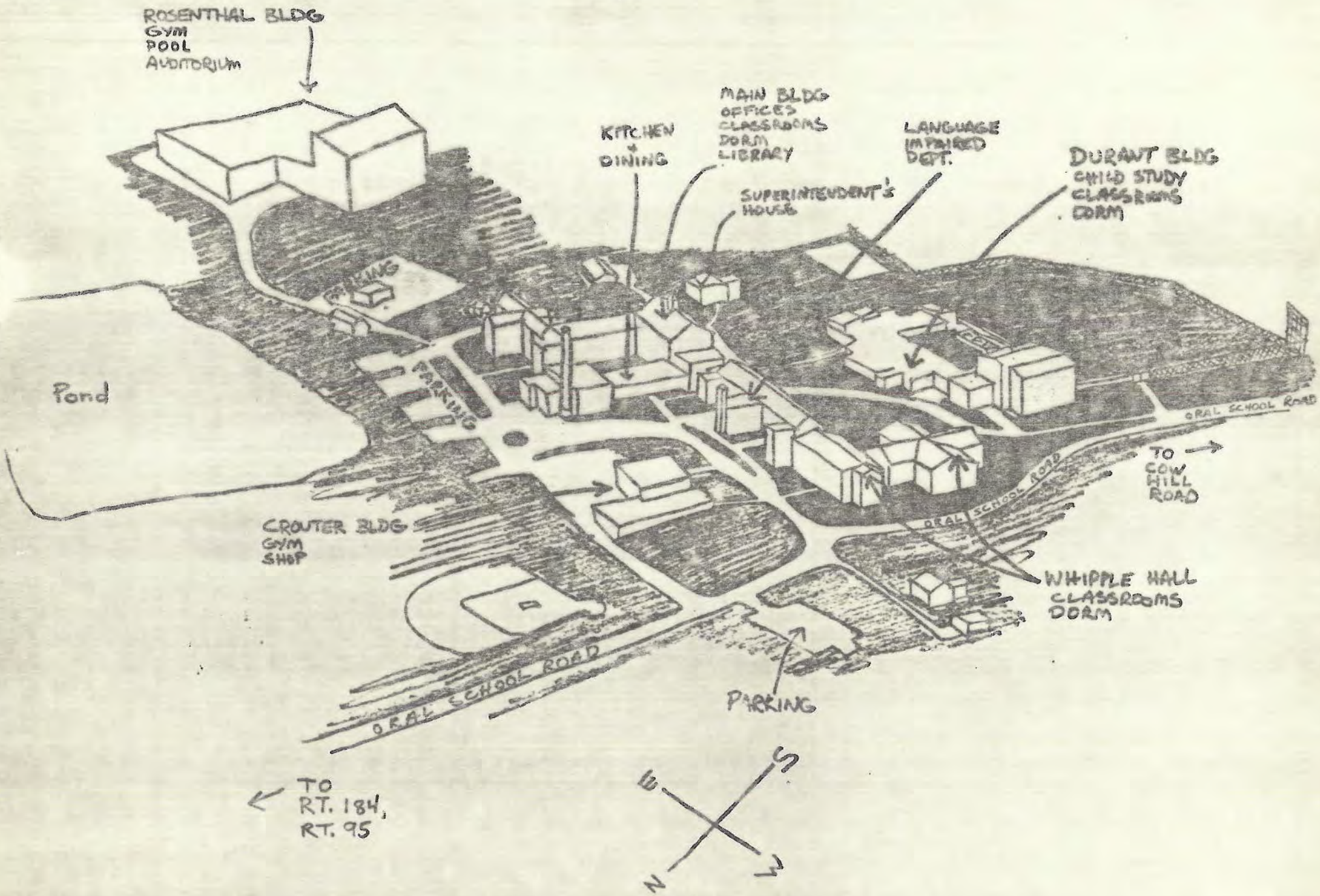
19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Celina Ortiz | Signature: [signature] | Month Day Year: 10 6 05

EPA Form 8700-22 (Rev. 9/91) Form Approved OMB No.2050-0039

116301

COPY 3: FACILITY TO GENERATOR


ROSENTHAL BLDG
GYM
POOL
AUDITORIUM
KITCHEN
+
DINING
MAIN BLDG
OFFICES
CLASSROOMS
DORM
LIBRARY
SUPERINTENDENT'S
HOUSE
LANGUAGE
IMPAIRED
DEPT.
DURANT BLDG
CHILD STUDY
CLASSROOMS
DORM
Pond
PARKING
ORAL SCHOOL ROAD
TO
COW
HILL
ROAD
CROUTER BLDG
GYM
SHOP
WHIPPLE HALL
CLASSROOMS
DORM
PARKING
TO
RT. 184,
RT. 95
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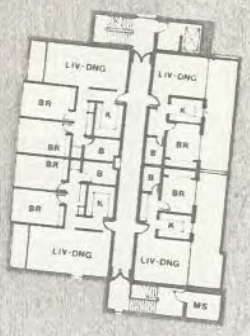
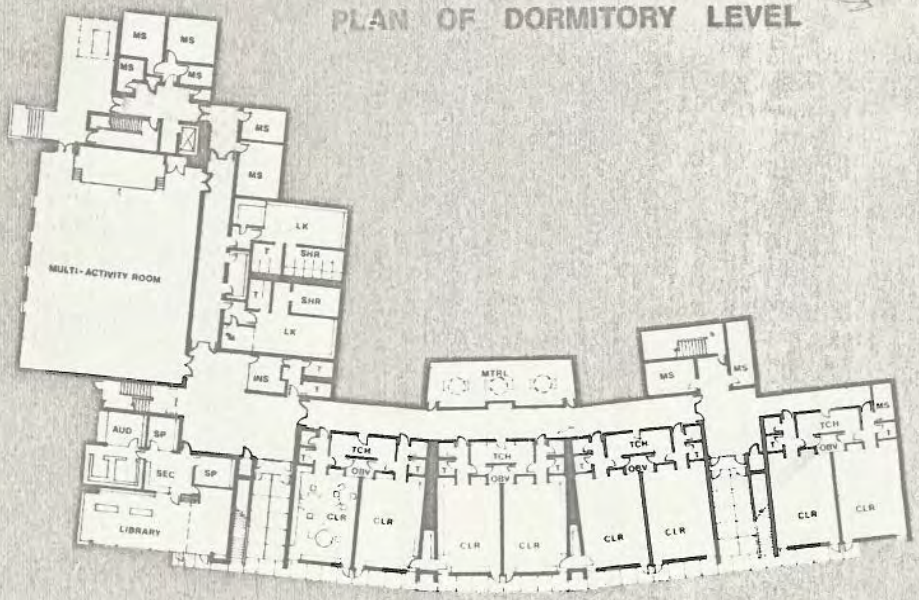


PLAN OF APARTMENT LEVEL

PLAN OF DORMITORY LEVEL



PLAN OF CLASSROOM LEVEL

N

0 5 10 20 30
GRAPHIC SCALE

LEGEND

MS	mechanical & services
B	bathroom
LIV-DNG	living & dining area
BR	bedroom
DNG	childrens' dining area
FAC	staff dining area
DW	dishwashing
K	kitchen
SEC	secretary
PRIN	principal
HSP	house parents
DORM	six bed dormitory room
MTRL	materials center
OBV	observation cubicle
TCH	teachers' room
SP	specialist
AUD	audiologist
INS	gym instructors
T	toilet room
SHR	showers
LK	lockers
CLR	classroom

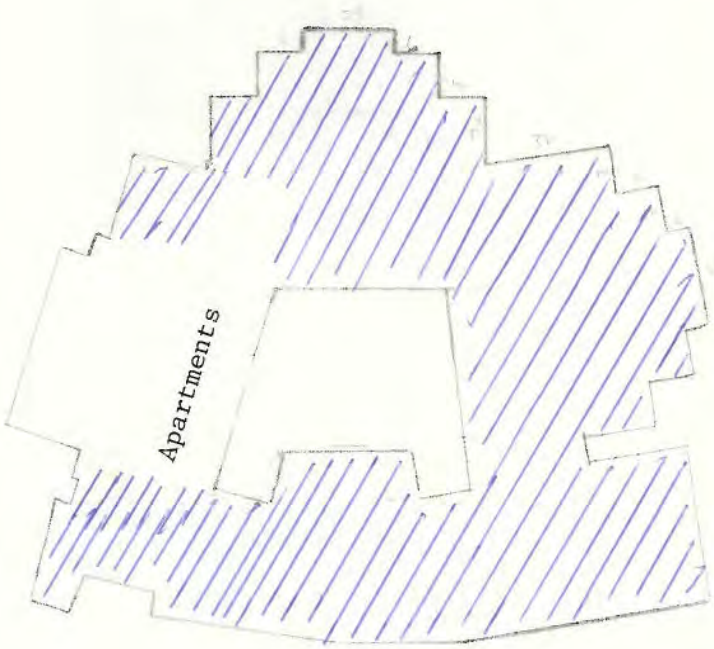
MYSTIC ORAL SCHOOL
BLANCHARD AND TILLINGHAST, ARCHITECTS

MYSTIC, CONNECTICUT
NEW HAVEN, CONNECTICUT

MYSTIC EDUCATIONAL CENTER

DURANT HALL

RECEIVED
1980
MYSTIC ORAL SCHOOL
MYSTIC CONN 06355



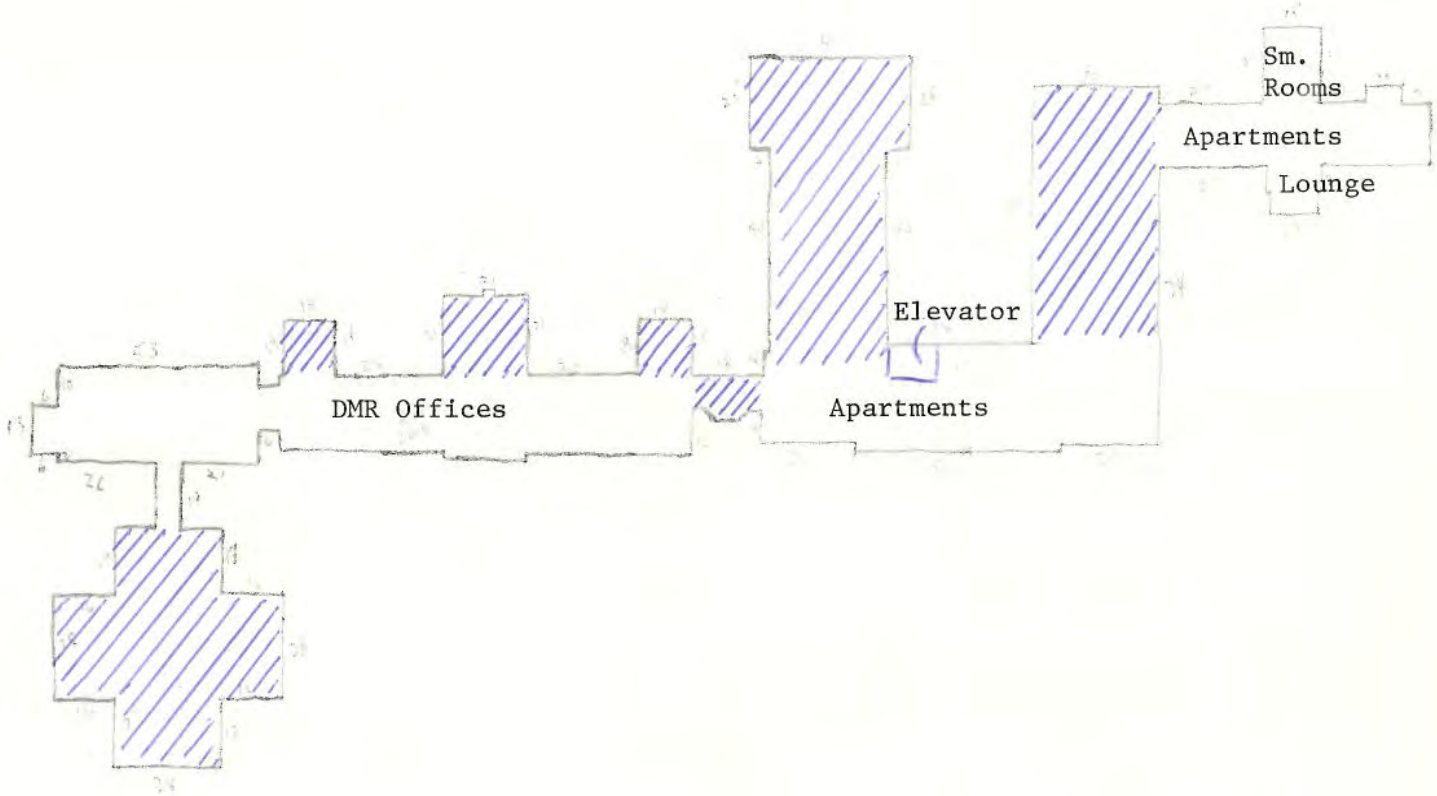
58,000 sq. ft

SECOND FLOOR PLAN

Does not exist

MYSTIC EDUCATIONAL CENTER

ADMINISTRATION BUILDING

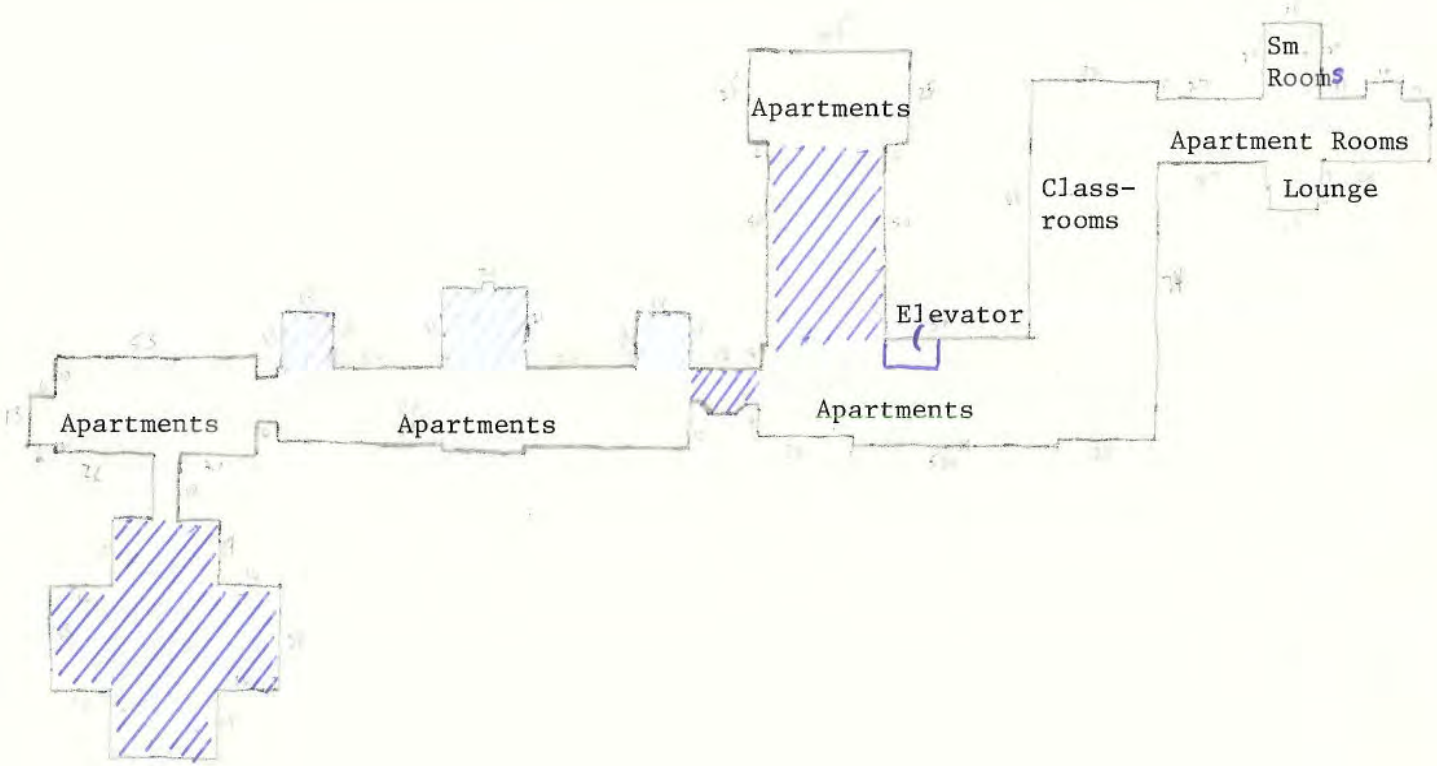


THIRD FLOOR PLAN

Does not exist

MYSTIC EDUCATIONAL CENTER

ADMINISTRATION BUILDING

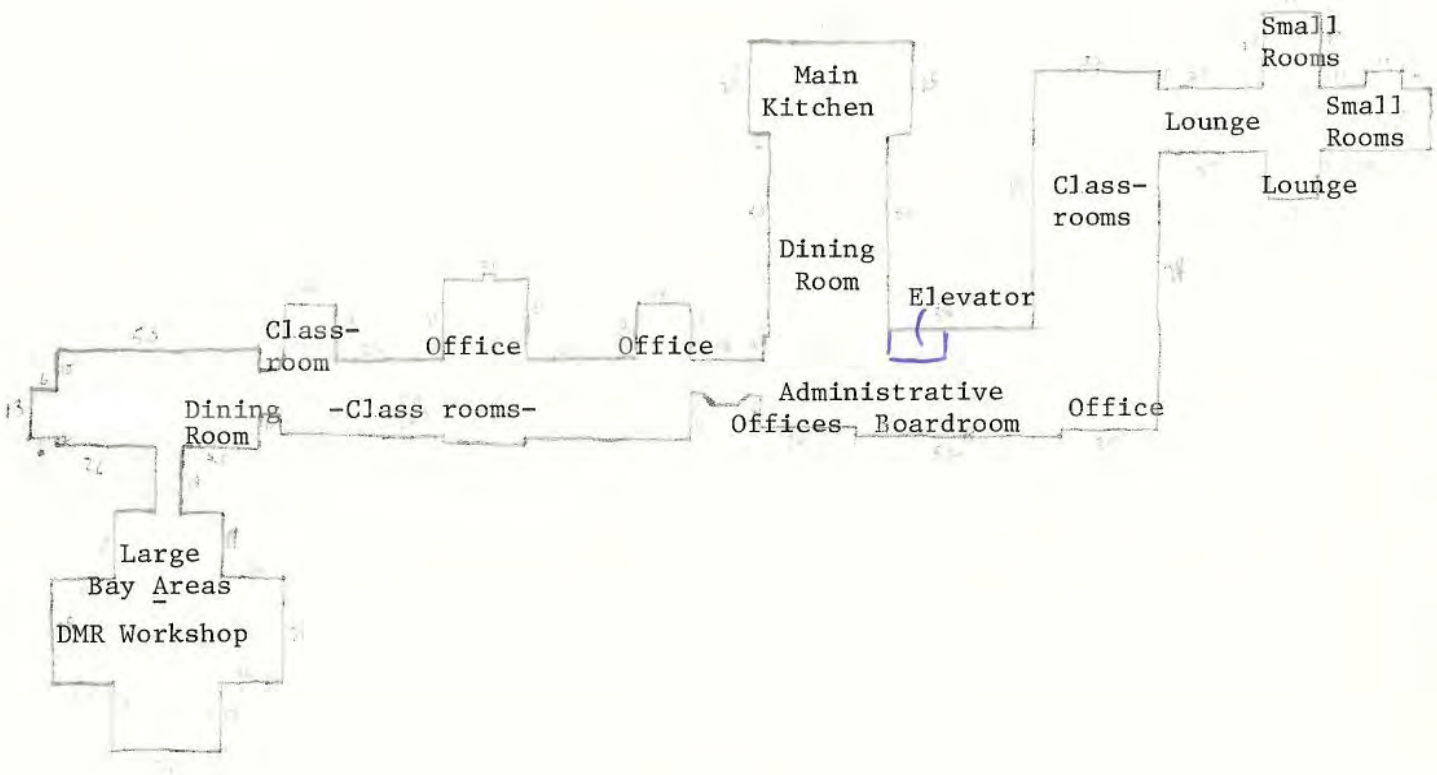


SECOND FLOOR PLAN

Does not exist

MYSTIC EDUCATIONAL CENTER

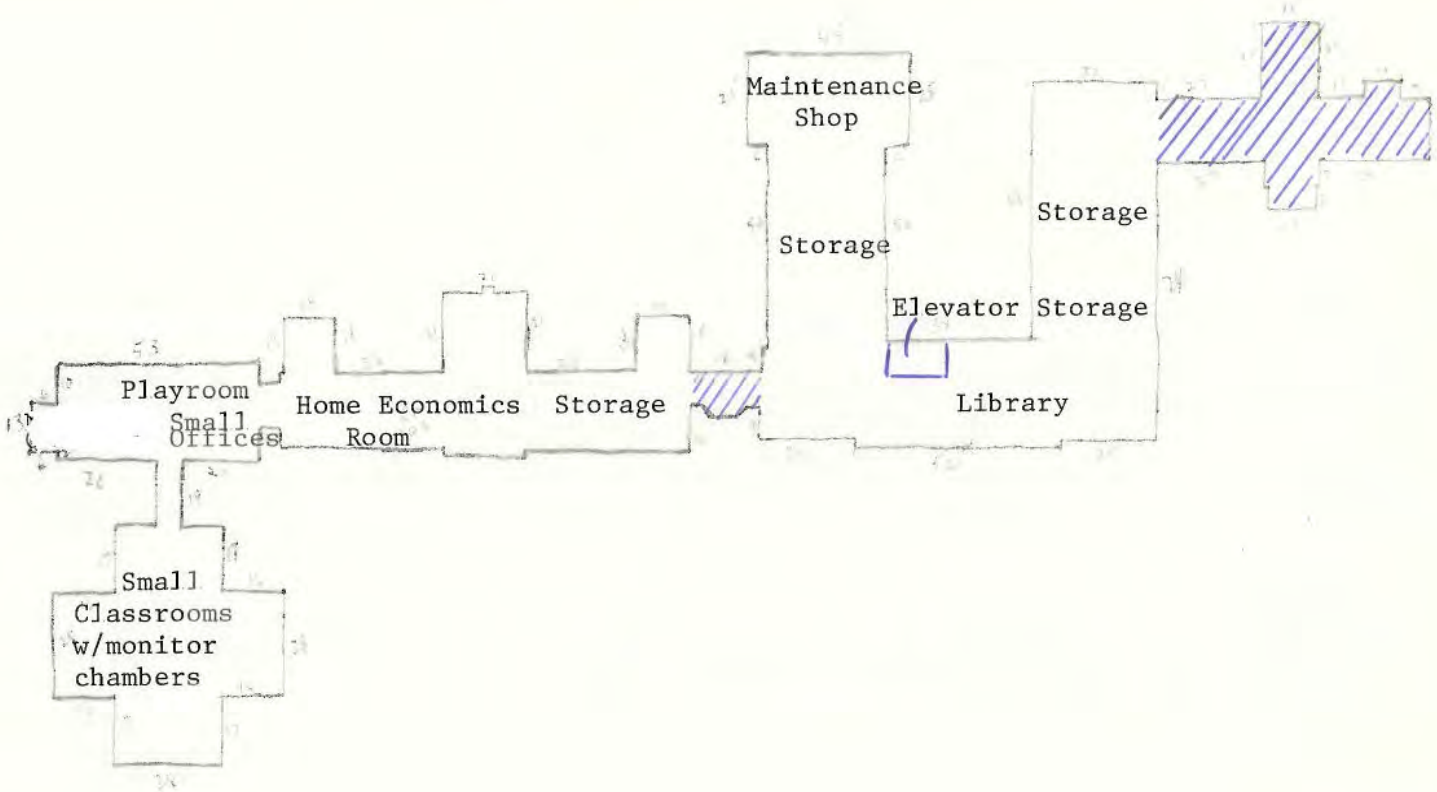
ADMINISTRATION BUILDING



FIRST FLOOR PLAN

MYSTIC EDUCATIONAL CENTER

ADMINISTRATION BUILDING



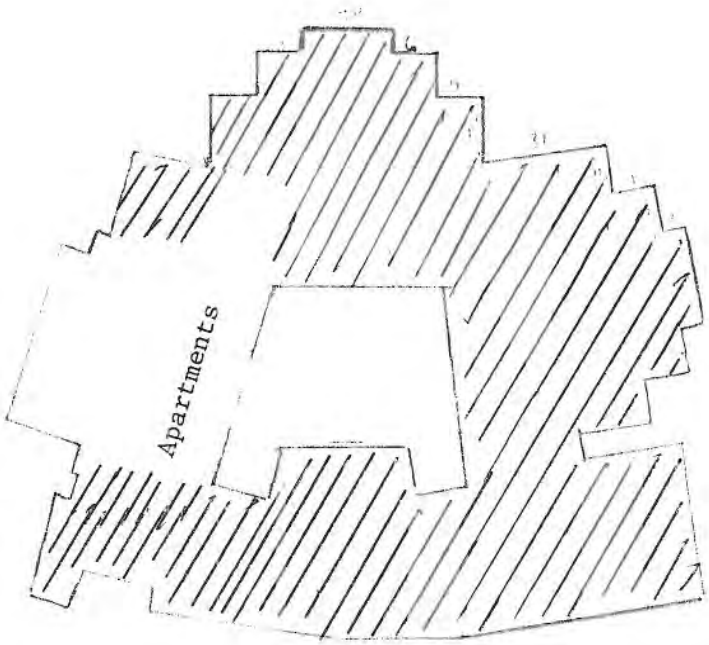
GROUND FLOOR

Does not exist

MYSTIC EDUCATIONAL CENTER

DURANT HALL

RECEIVED
1980
MYSTIC ORAL SCHOOL
MYSTIC CONN 06355



58,000 sq. ft.

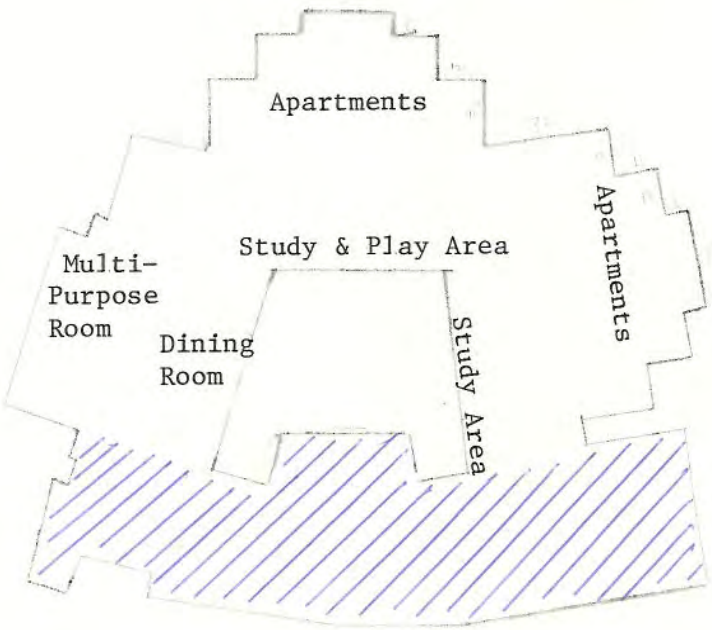
SECOND FLOOR PLAN

Does not exist

MYSTIC EDUCATIONAL CENTER

DURANT HALL

RECEIVED
1980
MYSTIC ORAL SCHOOL
MYSTIC CONN 06355



1st FLOOR PLAN

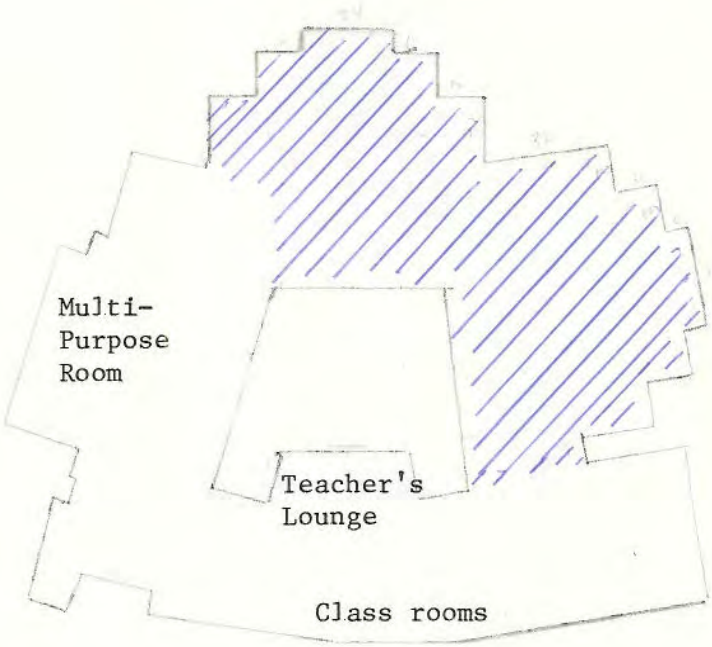
Does not exist

58,000 Sq. ft.

MYSTIC EDUCATIONAL CENTER

DURANT HALL

RECEIVED
1980
MYSTIC ORAL SCHOOL
MYSTIC CONN 06355



58,000 sq. ft.

GROUND FLOOR

Does not exist

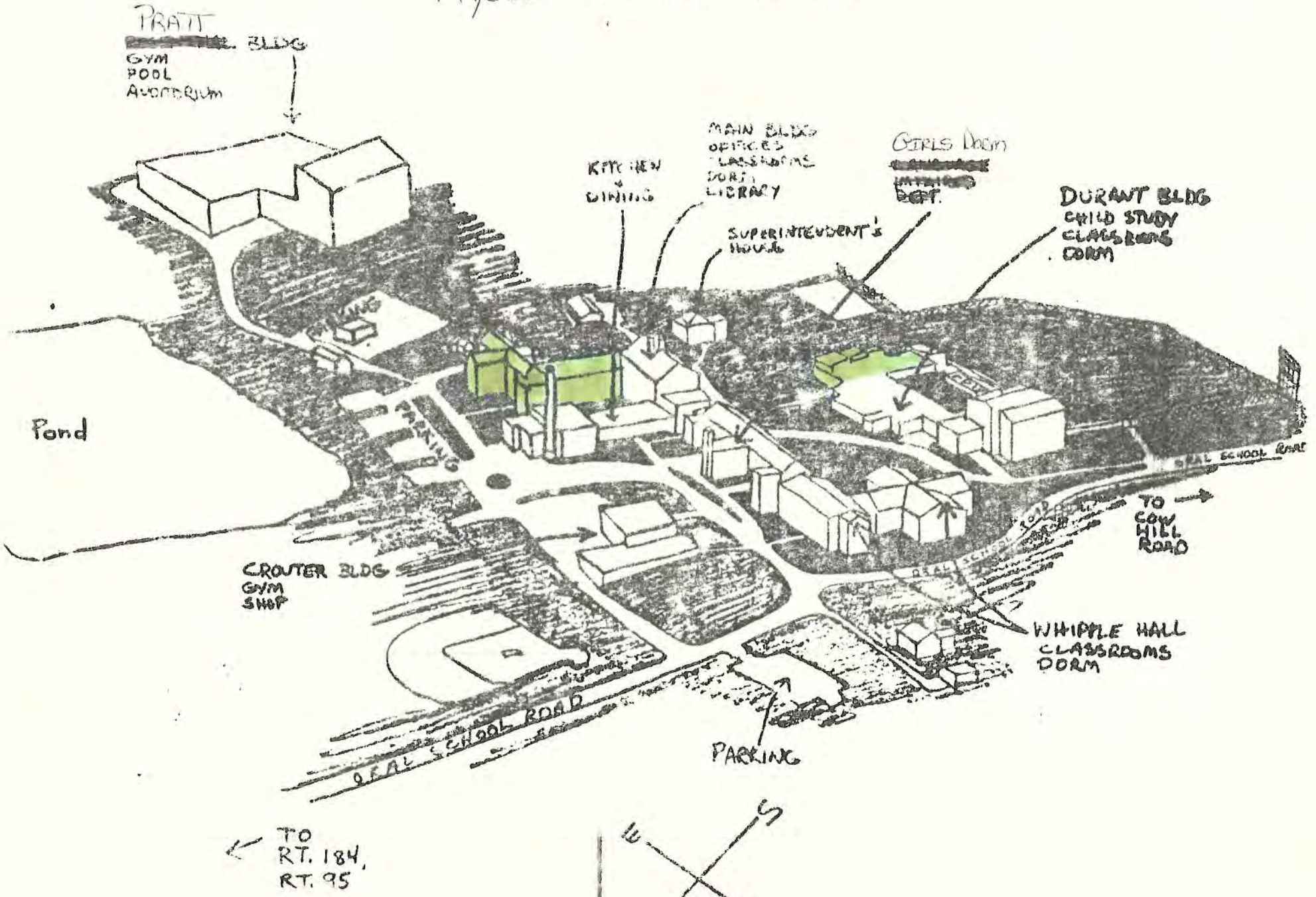
11-9-73 - D. Way

Square Footage Mystic Oral School

Administration Building		69658 sq. ft.
Girls Building		28711 " "
Whipple Hall		24457 " "
Crouter Building		7588 " "
Johnson House	3-11-91	1124 " "
~~South Cottage~~	PRATT BLDG. DURANT BLDG.	1632 " "
Superintendents House		2480 " "
Superintendents Garage	11 BLDG.	720 " "
Four Car Garage	240,000 SQ.FT.	720 " "
Service Building		1276 " "
~~Carpenter Shop Building~~		1608 " "
~~Sewerage Plant Building~~		296 " "
	Total	140272

New building now under construction 58223 sq. ft.

MYSTIC EDUCATION CENTER



PERSONNEL

NAME	ADDRESS	CLASSIFICATION	DATE HIRED	SHIFT	PHONE #
John Curtin	Fair Acres Mo Ho Park-Mystic	Housekeeper II	6/6/46	Days	—
Dwight N. Way	Rt. 164 RFD #6 Norwich	Plant Facilities Engineer I	9/1/61	Days	889-3129
Herbert Lee	PO Box 79 Waterford	Maint. II	10/24/63	Days	443-1242
John Fleming	RFD #1 Norwich	Maint. III	6/28/68	Days	887-2777
Harold Monroe	122 Birch St. Willimantic	Maint. IV	7/5/85	Days	423-6987
Anthy Kingsborough	Rattle Snake Ledge Rd. Salem	Maint. III	9/19/85	Days	859-2712
Barry Stetson	RFD #1 Box 84 Jewett City	Maint. I	7/19/85	Days	376-4813

STRUCTURE

SQUARE FOOTAGE	OWNED OR LEASED	NUMBER OF OCCUPANTS
240,000	Owned	387

GROUNDS

ENTRY STEPS AND WALKS - SQUARE FEET..9670

NUMBER OF PARKING SPACES..155.....

SQUARE FOOTAGE OF LAWN 20 Acres ..871,200

SQUARE FOOTAGE OF PARKING AREA...38,000

MECHANICALS

TYPE OF HEAT. Steam - Main Campus - Hot water - Pratt Bldg.

NUMBER OF BOILER/BURNERS AND MAKE? 3 Main Campus - 2 International, Preferred burners - 1 H.B. Smith

SPRINKLER. Grinnell.....with a Ray Burner - Pratt Bldg. 2 Federals, Power Flame Burners

SONITROL.....None.....

AIR CONDITIONERS....None.....

NUMBER OF ELEVATORS.....[illegible]

CONTRACT SERVICES	SUPPLIER	CONTRACT EXPIRATION DATE
FUEL - TANK SIZE 1-10,000-1-7500 #4 oil - 3-275-1-10,000 #2 oil	Hampden #4 Westerly Automatic #2	Sept. 30, 1987
ELEVATOR None		
EXTERMINATOR Terminix		
SECURITY Odgen Security		
CLEANING None		
RUBBISH None		
SNOW REMOVAL None		
HEATING SYSTEM None		
AIR CONDITIONING SYSTEM None		

October 1, 1986

Buildings Used by D.M.R.	Square Feet
Girls Building	28,000
Whipple Hall	22,228
Administration Building	33,818
Durant Hall	30,000
Pratt Building	45,505
Superintendents House	2,480
Total Used by D.M.R.	162,031 Sq. Ft.

Little White School House uses 2,230 Sq. ft. of Whipple Hall and 650 Sq. ft. of the Administration Building for a total of 2,880 sq. ft.

There is a total of 240,000 sq. ft. here, a total of 75,000 sq.ft. are unused.

Pratt is used by D.M.R. and L.W.S.H. every day except Fridays. Groton Park and Recreation uses it about all day on Fridays and it is used every night except Sunday night, by D.M.R. and by different groups connected with D.M.R.

Building used by DMR — Sq. ft. — Feb-85

Girl Dorm — 28,000

Whipple Building has
a total of 24457 sq ft DMR. use - 22,228

Little White School House — 2,229

Administration Building
a total of 69,658 sq. ft. DMR. — 33,818
Unused — 35,840

Durant Hall a total of — 58,223 -
DMR. use — 30 000
Unused — 28,223

Superintendents House — 2,480 -

Pratt Building — 45,505

Total used by DMR. 190254
30 000
220 254

Total used by L.W.S.H. — 2229 -

Total Mystic Educational Center 240,000

The remaining 50,000 sq. ft. are not heated and no utilities are used.

Pratt is used by DMR + L.W.S.H. every day except Friday. Friday it is used about all day by the town of Groton, Parks + Rec. and it is used every night except Sunday night, by different groups connected with DMR.

DEPARTMENT OF EDUCATION
STATE OF CONNECTICUT

MEMORANDUM

To Mr. Dwight Way Mystic Oral School Date November 7, 1975

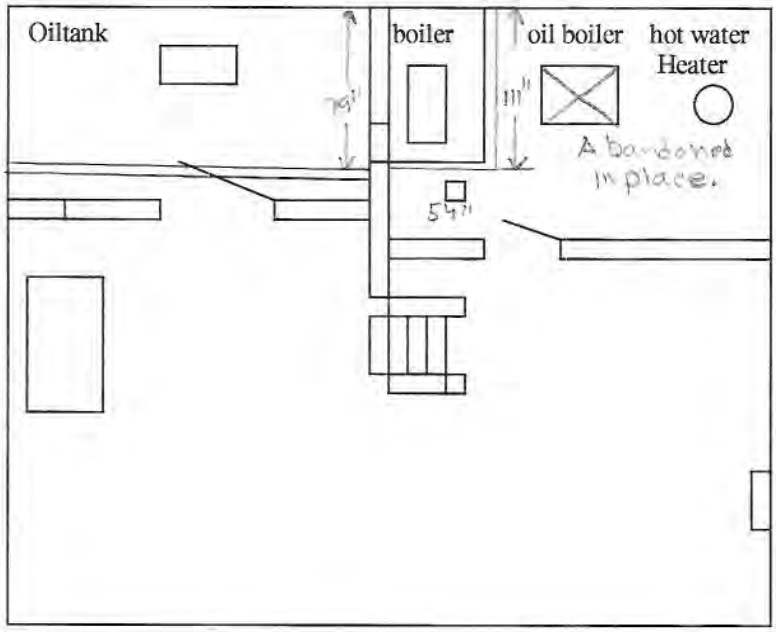
From John P. McKenna JPM(ass) Subject Real Property Inventory

My office is charged with completing a Real Property Inventory for the Department of Education. I must have information on the following buildings at Mystic Oral School to complete this inventory.

	Building	Year Built	Material Used	Number of Floors
#5	4 Car Garage	1930	Wood	1
	Carpenter Shop	1925	Wood	1
	Sewage Plant	1923	Masonry	1
#1	Administration Bld.	1938	Masonry	4
#2	Girls Bld.	1923	Masonry	4
	Whipple Hall	1968	Masonry	3
	Crouter Hall	1958	Masonry	1
	South Cottage	1931	Wood	2
#3	Superintendents Residence	1928	Masonry	2 + Attic & Basement
	Service Bldg.	1969	Masonry	1
	JPM:amk			
	Durant Hall	1973	Masonry	3
	Gymnasium, Auditorium, Swimming Pool	1975	Masonry	2

	Year Built	Material Used	Number of Floors
4 Car Garage	1930	Wood	1
Carpenter Shop	1925	Wood	1
Sewage Plant	1923	Masonry	1
Administration Bld.	1938	Masonry	4
Girls Bld.	1923	Masonry	4
Whipple Hall	1968	Masonry	3
Crouter Bld.	1958	Masonry	1--
South Cottage	1931	Wood	2
Superintendents Res.	1928	Masonry	2 + Attic + Basement-
Service Bld.	1969	Masonry	1
Durand Hall-	1973	Masonry	3
Gym, Auditorium, Swimming Pool	1975	Masonry	2
Johnson House	1910	Wood	2 - 1120 sq ft.

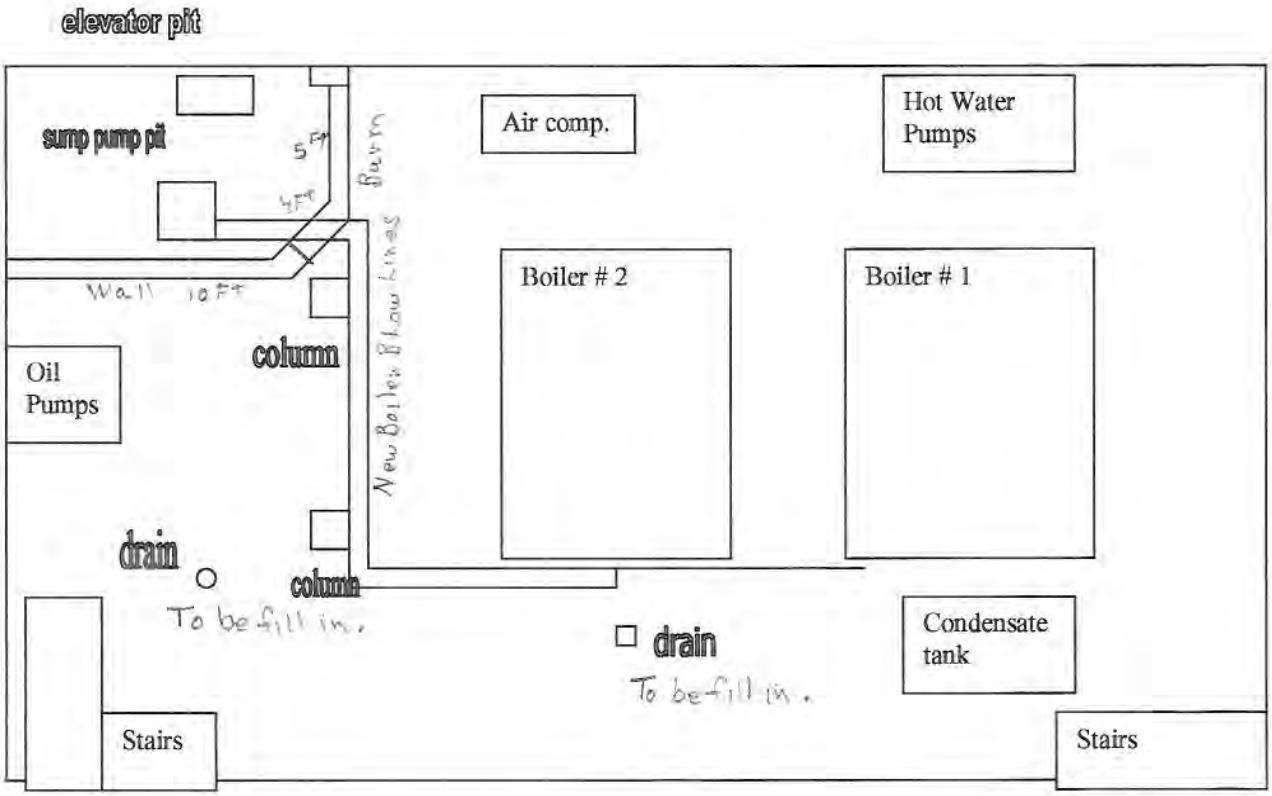
Rainbow house basement
November 1, 2004



Scope of work

- Burm are to be 8" high and 8" wide
- Burm are to be anchor to floor.
- Burm are to have rebar in them.
- Burm are to be waterproof.
- Oil line need to be raises above burm.

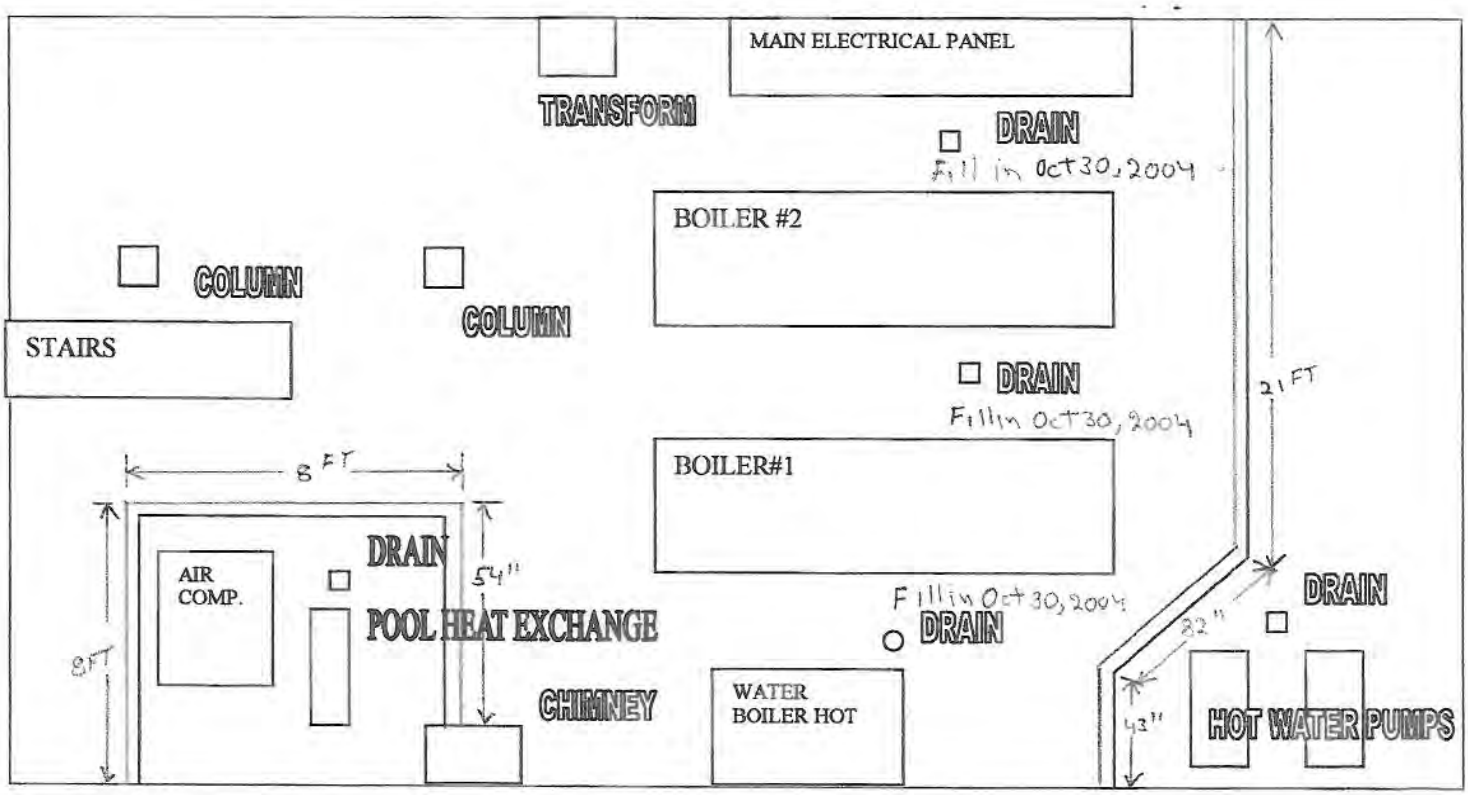
ADM. BOILER ROOM BASEMENT DATE: November 1, 2004



Scope of work

- Wall is to be 10ft high.
- Made out of cinder block and the first row are to fill with cement.
- Wall and burm are to waterproof.
- Wall and burm are to be anchor to floor.
- Burm are to have rebar in them.
- Burm are to be 8" high and 8" wide.
- Two floor drain are to be fill with cement.
- Repipe boiler blowdown pipe to sump pit.
- Pipe supports every 5-ft.
- Relocate electrical box on wall to make room for wall.

Pratt building November 1,2004



Scope of work

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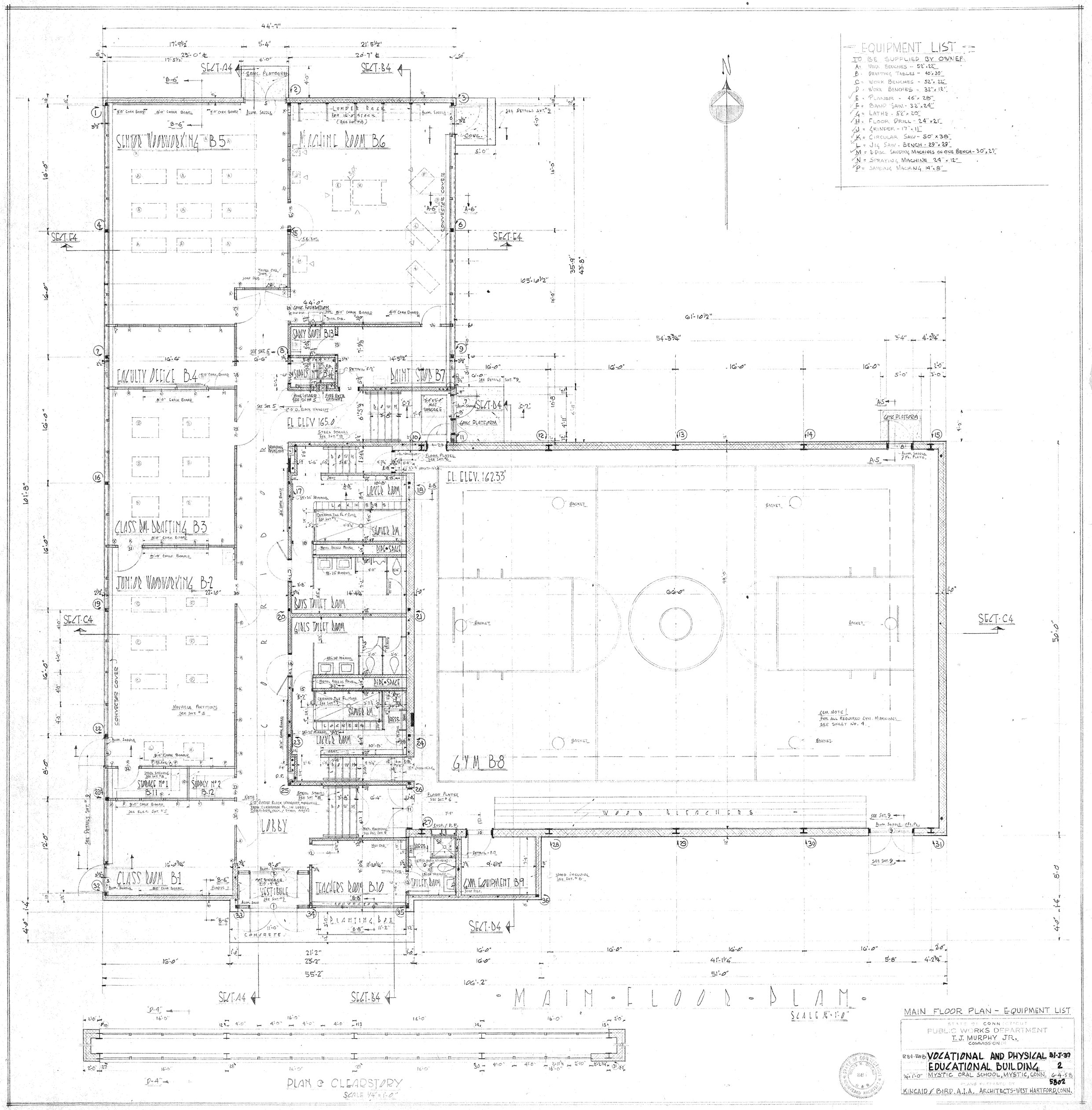
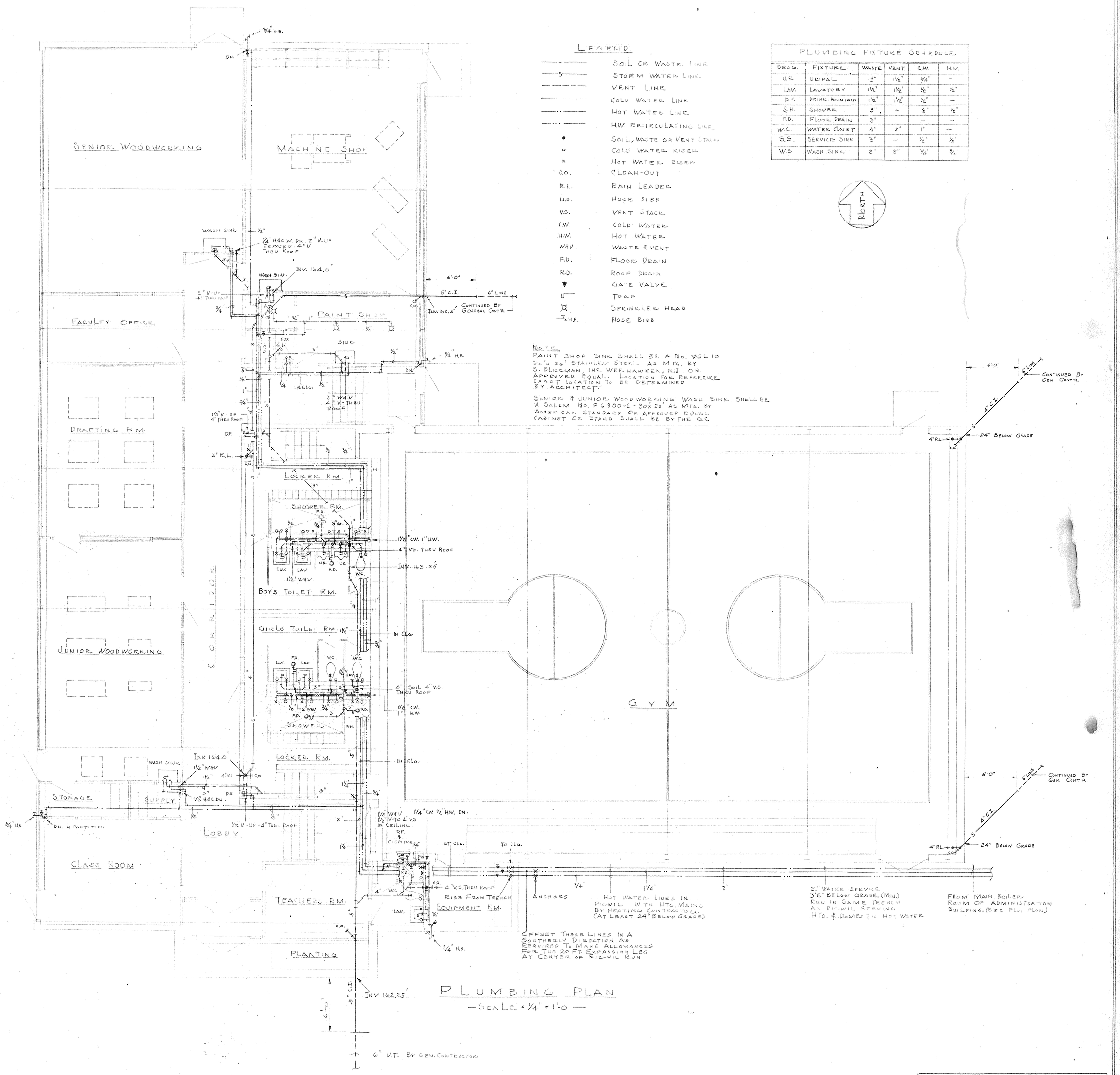
- Burm are to be water proof.


EQUIPMENT LIST
TO BE SUPPLIED BY OWNER
A = WORK BENCHES - 52" x 22"
B = DRAFTING TABLES - 40" x 30"
C = WORK BENCHES - 52" x 22"
D = WORK BENCHES - 32" x 12"
E = PLANER - 46" x 28"
F = BAND SAW - 32" x 24"
G = LATHE - 52" x 20"
H = FLOOR DRILL - 24" x 21"
J = GRINDER - 17" x 11"
K = CIRCULAR SAW - 50" x 38"
L = JIG SAW - BENCH - 29" x 29"
M = 2 DISC. SANDING MACHINES ON ONE BENCH - 30" x 29"
N = SPRAYING MACHINE 24" x 12"
P = SANDING MACHINE 14" x 8"
SENIOR WOODWORKING B5
MACHINE ROOM B6
FACULTY OFFICE B4
PAINT SHOP B7
CLASS RM. DRAFTING B3
JUNIOR WOODWORKING B2
LOCKER ROOM
SHOWER RM.
BOYS TOILET ROOM
GIRLS TOILET ROOM
GYM B8
CLASS ROOM B1
TEACHERS ROOM B10
GYM EQUIPMENT B9
LOBBY
VESTIBULE
PLANTING BOX
WOOD BLEACHERS
MAIN FLOOR PLAN
SCALE 1/4" = 1'-0"
PLAN @ CLEARSTORY
SCALE 1/4" = 1'-0"
MAIN FLOOR PLAN - EQUIPMENT LIST
STATE OF CONNECTICUT
PUBLIC WORKS DEPARTMENT
T. J. MURPHY JR.
COMMISSIONER
VOCATIONAL AND PHYSICAL EDUCATIONAL BUILDING
MYSTIC ORAL SCHOOL, MYSTIC, CONN.
1/4" = 1'-0"
PLANS PREPARED BY
KINCAID & BIRD, A.I.A. ARCHITECTS - WEST HARTFORD, CONN.
B1-J-37
2
6-4-58
5802



PLUMBING PLAN

— SCALE = 1/4" = 1'-0 —

LEGEND

— — —	SOIL OR WASTE LINE
—S—	STORM WATER LINE
— — —	VENT LINE
— · —	COLD WATER LINE
— · · —	HOT WATER LINE
— · · · —	H.W. RECIRCULATING LINE
●	SOIL, WASTE OR VENT STACK
o	COLD WATER RISER
×	HOT WATER RISER
C.O.	CLEAN-OUT
R.L.	RAIN LEADER
H.B.	HOSE BIBB
V.S.	VENT STACK
C.W.	COLD WATER
H.W.	HOT WATER
W&V	WASTE & VENT
F.D.	FLOOR DRAIN
R.D.	ROOF DRAIN
	GATE VALVE
	TRAP
	SPRINKLER HEAD
	HOSE BIBB

PLUMBING FIXTURE SCHEDULE

DESIG.	FIXTURE	WASTE	VENT	C.W.	H.W.
U.R.	URINAL	3"	1½"	¾"	–
LAV.	LAVATORY	1½"	1½"	½"	½"
D.F.	DRINK. FOUNTAIN	1½"	1½"	½"	–
S.H.	SHOWER	3"	–	½"	½"
F.D.	FLOOR DRAIN	3"		–	–
W.C.	WATER CLOSET	4"	2"	1"	–
S.S.	SERVICE SINK	3"	–	½"	½"
W.S.	WASH SINK	2"	2"	¾"	¾"

NOTE:
PAINT SHOP SINK SHALL BE A No. VSL 10 16 x 22" STAINLESS STEEL AS MFG. BY S. BLICKMAN, INC. WEEHAWKEN, N.J. OR APPROVED EQUAL. LOCATION FOR REFERENCE. EXACT LOCATION TO BE DETERMINED BY ARCHITECT.

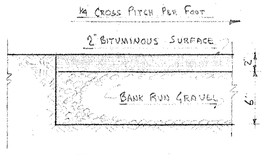
SENIOR & JUNIOR WOODWORKING WASH SINK SHALL BE A SALEM No. P6800-1 - 30x23" AS MFG. BY AMERICAN STANDARD OR APPROVED EQUAL. CABINET OR STAND SHALL BE BY THE G.C.

STATE OF CONNECTICUT
PUBLIC WORKS DEPARTMENT
T. J. MURPHY, JR.
COMMISSIONER

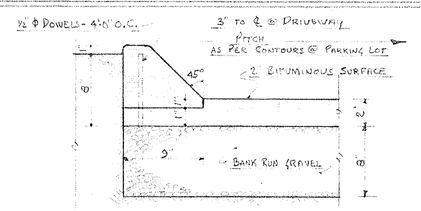
DRAWN BY J.J.M.	VOCATIONAL AND PHYSICAL EDUCATIONAL BUILDING	PROJECT NO. B1-137
APPROVED BY J.E.M.	MYSTIC OREAL SCHOOL - MYSTIC, CONN.	DRAWING NO. P-1
SCALE 1/4"=1'-0"		DATE REV. 6-4-58
		58-02

PLANS PREPARED BY
KINCAID & BIRD, A.I.A., ARCHITECTS, WEST HARTFORD, CONN.

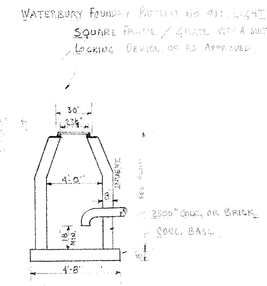
3/24/58



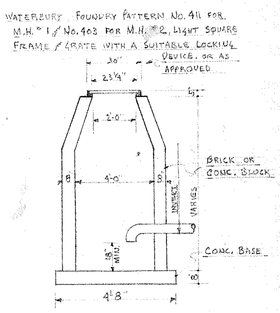
TYPICAL DETAIL
BITUMINOUS WALKS



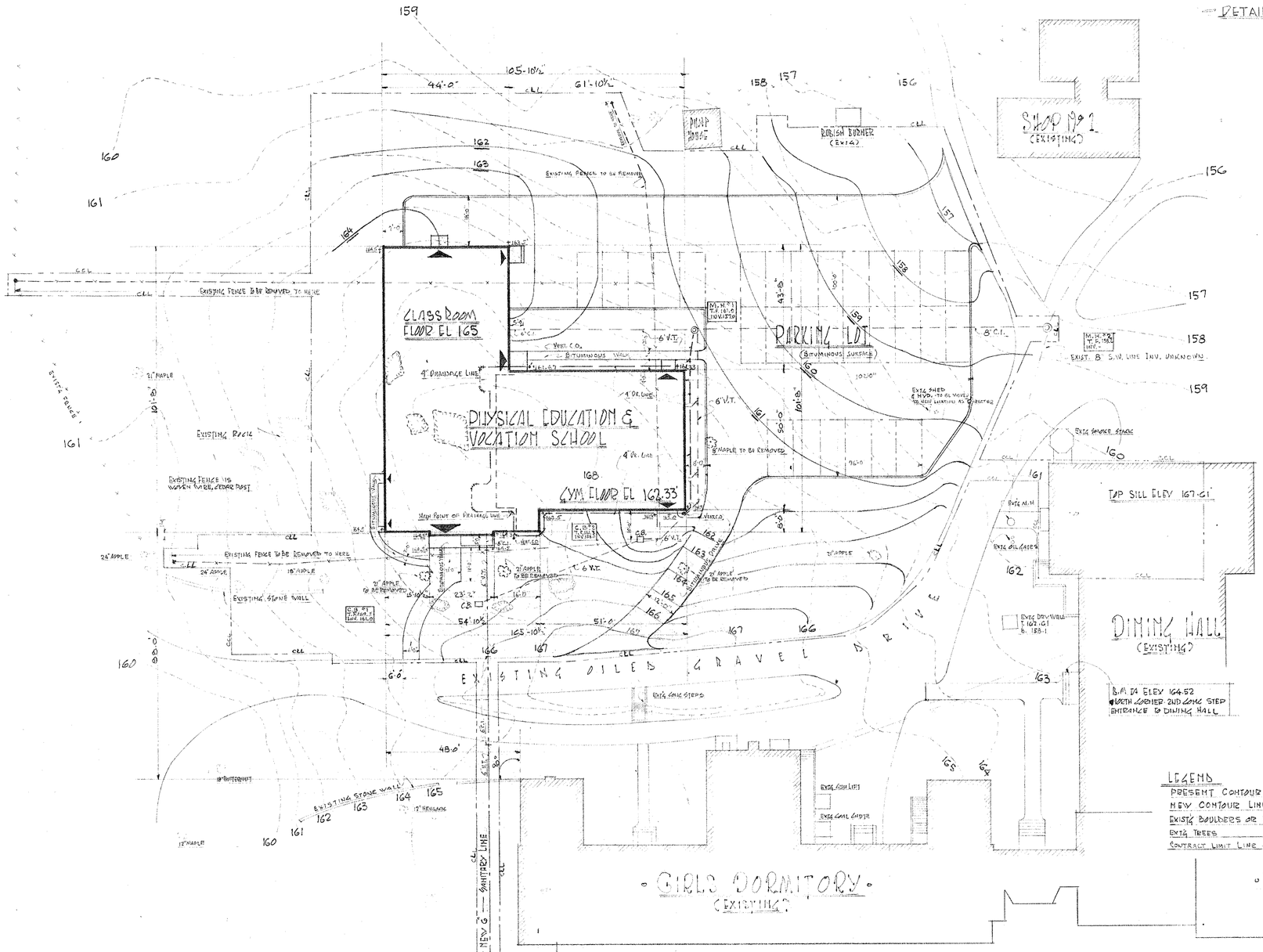
TYPICAL DETAILS
BURM @ PARKING LOT



DETAIL @ CATCH BASIN

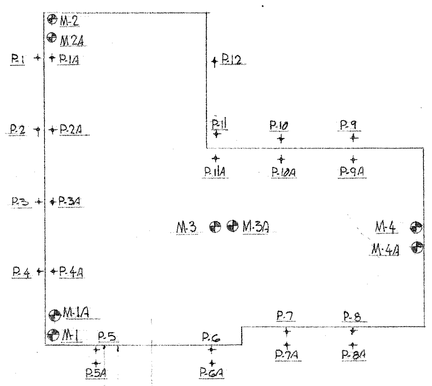


TYPICAL DETAIL
@ MANHOLES No. 1 & 2



PLOT PLAN
SCALE 1" = 20'-0"

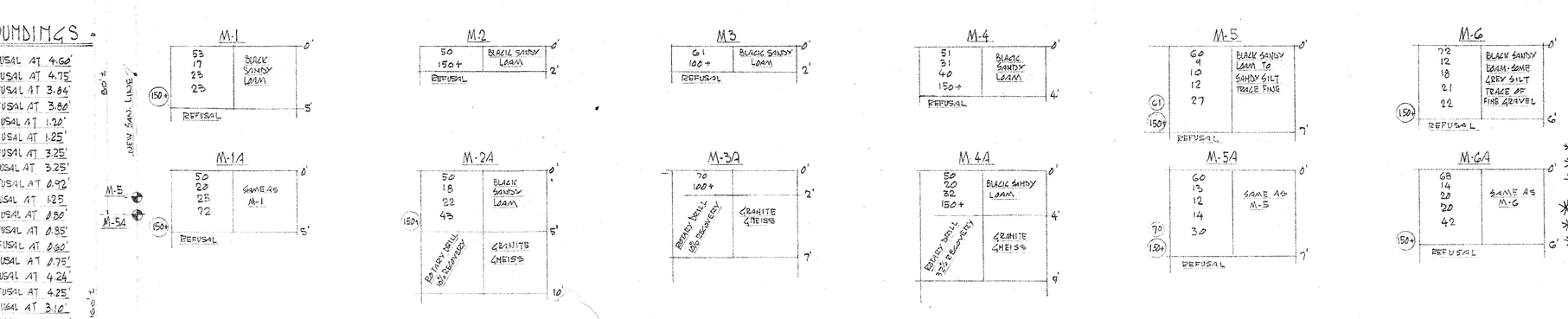
DATA FOR SITE PLAN TAKEN FROM MAP PREPARED BY F.P. MOLLOY & ASSOCIATES SH. No. 1 DATED 2/18/58



1. FIGURES IMMEDIATELY LEFT OF THE LINE OF THE HOLE INDICATES THE NUMBER OF BLOWS WITH A 250# HAMMER FALLING 24" NECESSARY TO ADVANCE 2½" CASING THRU EACH FOOT OF SOIL
2. FIGURES CIRCLED INDICATES THE NUMBER OF BLOWS WITH A 140# HAMMER FALLING 30" NECESSARY TO ADVANCE A 2" O.D. SAMPLER ONE FOOT
3. ALL ROTARY DRILLING WAS WITH A 1 1/4" I.D. DIAMOND CORE BIT
4. ALL PROBINGS MADE WITH A 1" O.D. DAINTER PROBE AND A 25# SLIP HAMMER

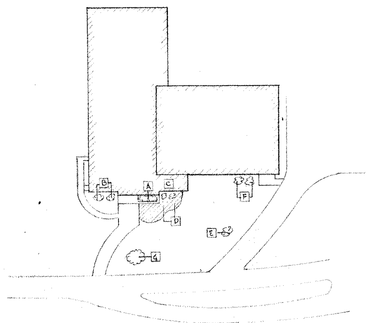
ROD SOUNDINGS

P-1	REFUSAL AT 4.60'
P-1A	REFUSAL AT 4.75'
P-2	REFUSAL AT 3.64'
P-2A	REFUSAL AT 3.80'
P-3	REFUSAL AT 1.20'
P-3A	REFUSAL AT 1.25'
P-4	REFUSAL AT 3.25'
P-4A	REFUSAL AT 3.25'
P-5	REFUSAL AT 0.92'
P-5A	REFUSAL AT 1.25'
P-6	REFUSAL AT 0.80'
P-6A	REFUSAL AT 0.85'
P-7	REFUSAL AT 0.60'
P-7A	REFUSAL AT 0.75'
P-8	REFUSAL AT 4.24'
P-8A	REFUSAL AT 4.25'
P-9	REFUSAL AT 3.10'
P-9A	REFUSAL AT 3.05'
P-10	REFUSAL AT 3.85'
P-10A	REFUSAL AT 3.92'
P-11	REFUSAL AT 2.00'
P-11A	REFUSAL AT 2.20'
P-12	REFUSAL AT 5.00'



TEST BORING & SOUNDINGS DATA

TAKEN FROM BORING DATA MADE BY JERSEY TESTING LABORATORIES INC NEWARK, N.J. DATED FEBRUARY 1958



PLANTING PLAN

SCALE 1" = 40'-0"

PLANTING SCHEDULE

SYMBOL	QUANTITY	SIZE	NAME
A	6	18-24"	DWARF JAPANESE YEW
B	2	2½-3'	JAPANESE HOLLY
C	2	2-3'	CATAWBA RHODODENDRON
D	100	——	MYRTLE
E	1 CLUMP	10-12'	EUROPEAN WHITE BIRCH
F	2	2½-3'	MOUNTAIN LAUREL
G	1	5-6'	FLOWERING DOGWOOD

* INDICATES MATERIAL TO BE BALLED AND BURLAPPED

PLOT PLAN - BORING DETAILS - SITE DETAILS - PLANTING

STATE OF CONNECTICUT
PUBLIC WORKS DEPARTMENT
T. J. MURPHY, JR.
COMMISSIONER

DRAWING BY T.A.B.	VOCATIONAL AND PHYSICAL EDUCATIONAL BUILDING	PROJECT NO. 57-7-37
APPROVED BY	MYSTIC ORAL SCHOOL, MYSTIC, CONN.	DRAWING NO. 1
SCALE 1" = 20'		DATE REV. 6-4-58

PLANS PREPARED BY
KINCAID & BIRD, A.I.A., ARCHITECTS, WEST HARTFORD, CONN.

5802

UNITED INDUSTRIAL SERVICES
DIVISION OF UNITED OIL RECOVERY INC.

14 WEST MAIN STREET
P.O. BOX 902 MERIDEN CT 06450-0902
TELEPHONE (203) 238-6745

"An Equal Opportunity Employer"

David Roane
860-536-4721

April 12, 2002

Ms. Jackie Brown
State of Connecticut
Department of Public works
165 Capital Avenue
Hartford, CT 06106

Dear Ms. Jackie Brown:

United Industrial Services division of United Oil Recovery, Inc. (United) is pleased to provide the following quotation on waste streams submitted for review and treatment at our facilities:

Approval Code:	Generator/Material	Price/Drum
1503DPLH1	Mystic Educational Center/Paint Related	$275.00/30 or 55 gallon drum $206.00/ 10-15 gallon pail

40 + 5 = 200
1375
75
15
1725

Comments
- Pricing is based on the material being received at our facilities matching the description provided on the waste stream profile sheet. Off-specification charges may result if analytical and/or material is not representative of approved profile.
- Unless otherwise noted, all pricing is before any applicable tax(es) or fee(s).
- Minimum load charges may apply.
- United activities are in accordance with all applicable federal, state and local regulations.
- If additional analytical is required, pricing will be on a case by case basis.
- All drums must be nonleaking, free of exterior residue and in DOT shippable condition.
- Multi service discounts may apply.
- Surcharges for fuel or insurance may apply.

Credit Terms
Net thirty (30) days from invoice date with 1.5% finance charge per month on any overdue invoicing. In the event of default of these payment terms, the client will be responsible for all collection costs and attorneys' fees.

Thank you for the opportunity to be of service to you. If you have any questions about any of our services or would like to schedule, please call your Account Coordinators, Trish, Noel, or Theresa, at (888) 276-0887.

Sincerely,

Theresa Colaresi
Account Coordinator
/tc
cc: Bill Cowles

UNITED
INDUSTRIAL
SERVICES
DIVISION OF UNITED OIL RECOVERY INC.

14 WEST MAIN STREET
P.O. BOX 902 MERIDEN CT 06450-0902
TELEPHONE (203) 238-6745

"An Equal Opportunity Employer"

April 10, 2002

JOSEPH CASSIDY
STATE OF CT DEPT PUBLIC WORKS
STATEWIDE SERVICES
165 CAPITOL AVE
HARTFORD, CT 06106

Dear: JOSEPH CASSIDY

The following are approved waste streams at United Oil Recovery, Inc. and/or Bridgeport United Recycling, Inc.

Approval Code	Generator/Material
1503DPLH1	ST OF CT,MYSTIC ED / PAINT RELATED

United Oil Recovery, Inc. has the capacity and the permits to treat these types of waste. If you or your customers would like to witness the capabilities of our facility, please feel free to contact me at (203) 238-6745. Please contact your account coordinators at (888) 276-0887, to schedule or if you have any questions or changes regarding your waste stream. Thank you for considering our facility for your treatment and recycling needs.

Sincerely,

William Morris
Environmental Director

WM/dc

UNITED
INDUSTRIAL
SERVICES
DIVISION OF UNITED OIL RECOVERY INC.

14 WEST MAIN STREET
P.O. BOX 902 MERIDEN CT 06450-0902
TELEPHONE (203) 238-6745

"An Equal Opportunity Employer"

APR 17 2002

April 11, 2002

Jackie Brown
State of Connecticut
Department of Public Works
165 Capitol Avenue
Hartford, CT 06106

Dear Jackie Brown:

United Industrial Services (United) is pleased to provide the following quotation on waste streams submitted for review and treatment at our facilities:

Approval Code	Generator/Material	Price / drum
1452DLHN1	The Mystic Educational Center Drain Oils	$75.00/drum

Comments

- Pricing is based on the material being received at our facilities matching the description provided on the waste stream profile sheet. Off-specification charges may result if analytical and/or material is not representative of approved profile.
- If additional analytical is required, pricing will be on case-by-case basis.
- All drums must be nonleaking, free of exterior residue and in DOT shippable condition.
- Unless otherwise noted, all pricing is before any applicable tax(es) or fee(s).
- United activities are in accordance with all applicable federal, state and local regulations.

Credit Terms
Net thirty (30) days from invoice date with 1.5% finance charge per month on any overdue invoicing. In the event of default of these payment terms, the client will be responsible for all collection costs and attorneys' fees.

Thank you for the opportunity to be of service to you. If you have any questions about any of our services or would like to schedule, please call one of your account coordinators, Trish, Noel or Theresa, at (888) 276-0887.

Sincerely,

Noel Nash
Account Coordinator

cc: Bill Cowles

/nn

136 Gracey Ave.
Meriden, CT 06451- (203) 238-6751

60 Cross Street
Bridgeport, CT 06610

New	Update
Profile #	1503 D PLA1
Sample Arrival Date	

WASTE STREAM PROFILE SHEET

GENERATOR

Site Name: STATE of CT, The Mystic Educational Center
Address: 240 ORAL School Rd
Mystic CT 06355
Mailing Name: State of CT, Dept. of Public Works
Address: 165 Capital Ave
Hartford CT 06106
Technical Contact: JACKIE BROWN
Phone #: (860) 713-5678
Shipping Contact: HAROLD MONROE
Phone #: (860) 250-6034
EPA ID #:

BROKER / SALESPERSON

Name: SAME AS MAILING
Ref #:
Address:
Contact:
Phone #:

TRANSPORTER

Name: United Industrial Svc
Address:
Contact: Bill Cowles
Phone #: (203) 238-6745
EPA ID #:

WASTE DESCRIPTION

Chemical & Physical State: ☐ Liquid ☐ Multilayered ☐ Semi-Liquid ☐ Bilayered ☐ Solids ☐ Single Phase

pH: ☐ 2-4 ☐ 6-10 ☐ 4-6 ☐ 10-12 ☐ 6-8 ☐ >12

Odor: Solvent
Flash Point: <100°F
% Oil:
% Bottom Sediment:
TSS:
Heat Value (BTU/lb):
% Interface:
Specific Gravity:
Color: Various
>8000
% Water:

Please submit a one (1) quart representative sample of the waste stream. Describe the sampling method below.

Process Description - Describe the process generating waste stream. Please include a list of virgin materials and their Material Safety Data Sheets.

A variety of mixed enamel paints, thinners, stains, clean solvents, dye, varnish.

(Paint related materials)

CHEMICAL CONSTITUENTS

Petroleum Phase	Suspected Levels	Actual Levels (UOR use only)
PCBs	NS	
Halogens	NS	
Solvents	>10%	
Arsenic (As)	NS	
Cadmium (Cd)	↓	
Chromium (Cr)	↓	
Lead (Pb)	↓	

Aqueous Phase	Suspected Levels	Actual Levels (UOR use only)
Copper (Cu)	NS	
Cadmium (Cd)	↓	
Chromium (Cr)	↓	
Lead (Pb)	↓	
Nickel (Ni)	↓	
Silver (Ag)	↓	
Zinc (Zn)	↓	

	Suspected Levels	Actual Levels (UOR use only)
Selenium (Se)	NS	
Mercury (Hg)	↓	
Cyanide (CN^-)	↓	
Iron (Fe)	↓	
pH	NA	
Phenols	NS	

This waste is: ☐ RCRA Listed ☐ State Regulated ☐ Non-Regulated ☐ Virgin Material

RCRA Number(s): D001 U239
State Number:

Notes & special handling information: See MSDS attached

Please list Specific Solvents:

SHIPPING INFORMATION

DOT Hazard Class / Packing Group: 3 PG II
DOT Shipping Name: "RQ" waste Paint Related materials (D001)
Additional Description:

☐ DOT Regulated ☐ Non-Regulated
UN/NA Number: UN1263
Amount of Waste / Shipment (gals.): 4 drums
Frequency of Shipment: 1 time

The undersigned certifies that all above information is true and accurate to the best of his/her knowledge. The accompanying sample is representative of the waste stream described above. All potential hazards have been noted in the handling section. Shipments may not begin until this waste stream has been approved as treatable by United Oil Recovery, Inc. If at any time, the information above should change or prove different, shipments will cease until further approval is obtained from United Oil Recovery, Inc. The undersigned accepts full responsibility for any misrepresentation and any damage that the misrepresentation does to equipment or personnel of United Oil Recovery, Inc. This will also certify that the waste stream described above does not contain Pesticides, Herbicides or any TSCA Polychlorinated Biphenyls (PCBs). It is understood by both the Generator and the Broker, that in the event of default of payment by the Broker, United and its affiliates reserve the right to pursue payment from the Generator.

Signature: Harold Monroe
Title: Building Super
Date: 4/3/2002

FACILITY USE ONLY

Rec'd on:
Rec'd By:
Sample Container:
Approved By: Bill Cowles 4/9/02
Comments:
M
B

136 Gracey Ave.
Meriden, CT 06451- (203) 238-6751

50 Cross Street
Bridgeport, CT 06610

02-1452

New Update
Profile # 1452DLHW1
Sample Arrival Date

WASTE STREAM PROFILE SHEET

GENERATOR

Site Name: State of CT The Mystic Educational Center
Address: 240 Oral School Rd
Mystic CT 06355
Mailing Name: State of CT Dept. of Public works
Address: 165 Capital Ave
Hartford CT 06106
Technical Contact: Jackie Brown
Phone #: (860) 713-5678
Shipping Contact: Harold Monroe
Phone #: (860) 250-6034
EPA ID #:

BROKER / SALESPERSON

Name: Same as mailing
Ref #:
Address:
Contact:
Phone #:

TRANSPORTER

Name: United Industrial Svc
Address:
Contact: Bill Cowles
Phone #: (203) 238-6745
EPA ID #:

WASTE DESCRIPTION

Chemical & Physical State: (Liquid) Semi-Liquid Solids; Multilayered Bilayered (Single Phase); pH: 2-4, 4-6, 6-8, 8-10, 10-12, >12

Odor: Mild
Flash Point: >74°F 200
% Oil: 100
% Bottom Sediment:
TSS: 0
Heat Value (BTU/lb):
% Interface:
Specific Gravity: .86
Color: Black
>5000 17500
% Water:

Please submit a one (1) quart representative sample of the waste stream. Describe the sampling method below.

Process Description - Describe the process generating waste stream. Please include a list of virgin materials and their Material Safety Data Sheets.

Automotive Drain oil To include maintenance equipment.

(Drain oils)

CHEMICAL CONSTITUENTS

Petroleum Phase	Suspected Levels	Actual Levels (UOR use only)	Aqueous Phase	Suspected Levels	Actual Levels (UOR use only)		Suspected Levels	Actual Levels (UOR use only)
PCBs	NS	ND<2	Copper (Cu)	NS		Selenium (Se)	NS	
Halogens		200	Cadmium (Cd)			Mercury (Hg)		
Solvents			Chromium (Cr)			Cyanide (CN⁻)		
Arsenic (As)			Lead (Pb)		N/A	Iron (Fe)		
Cadmium (Cd)			Nickel (Ni)			pH	NA	NA
Chromium (Cr)			Silver (Ag)			Phenols	NS	NA
Lead (Pb)			Zinc (Zn)			TVO		ND

This waste is: RCRA Listed; (State Regulated); Non-Regulated; Virgin Material
RCRA Number(s):
State Number: CR02
Notes & special handling information

Please list Specific Solvents: None suspected

SHIPPING INFORMATION

DOT Hazard Class / Packing Group: Combustible Liquid, PaIII
DOT Shipping Name: Combustible Liquid N.O.S., (Automotive Drain oil)
Additional Description: State Regulated Waste
(DOT Regulated) Non-Regulated
UN/NA Number: NA-1993-None
Amount of Waste / Shipment (gals.): 2 Drum
Frequency of Shipment: Every Year

The undersigned certifies that all above information is true and accurate to the best of his/her knowledge. The accompanying sample is representative of the waste stream described above. All potential hazards have been noted in the handling section. Shipments may not begin until this waste stream has been approved as treatable by United Oil Recovery, Inc. If at any time, the information above should change or prove different, shipments will cease until further approval is obtained from United Oil Recovery, Inc. The undersigned accepts full responsibility for any misrepresentation and any damage that the misrepresentation does to equipment or personnel of United Oil Recovery, Inc. This will also certify that the waste stream described above does not contain Pesticides, Herbicides or any TSCA Polychlorinated Biphenyls (PCBs). It is understood by both the Generator and the Broker, that in the event of default of payment by the Broker, United and its affiliates reserve the right to pursue payment from the Generator.

Signature: Harold D Monroe
Title: Building Supts
Date: 4/3/2002

FACILITY USE ONLY

Rec'd on:
Rec'd By:
Sample Container:
Approved By: Bill 4/9/02
Comments:
M B

UNITED
INDUSTRIAL
SERVICES
DIVISION OF UNITED OIL RECOVERY INC.

14 WEST MAIN STREET
P.O. BOX 902 MERIDEN CT 06450-0902
TELEPHONE (203) 238-6745

"An Equal Opportunity Employer"

April 9, 2002

JOSEPH CASSIDY
STATE OF CT DEPT PUBLIC WORKS
STATEWIDE SERVICES
165 CAPITOL AVE
HARTFORD, CT 06106

Dear: JOSEPH CASSIDY

The following are approved waste streams at United Oil Recovery, Inc. and/or Bridgeport United Recycling, Inc.

Approval Code	Generator/Material
1452DLHN1	ST OF CT,MYSTIC ED CEN / DRAIN OILS

United Oil Recovery, Inc. has the capacity and the permits to treat these types of waste. If you or your customers would like to witness the capabilities of our facility, please feel free to contact me at (203) 238-6745. Please contact your account coordinators at (888) 276-0887, to schedule or if you have any questions or changes regarding your waste stream. Thank you for considering our facility for your treatment and recycling needs.

Sincerely,

William Morris
Environmental Director

WM/dc

LEASE

This lease is made and entered into by and between the State of Connecticut, hereinafter called the LESSOR, acting herein by P. J. Delahunty, Jr., its Department of Public Works Deputy Commissioner, duly authorized, pursuant to the provisions of Section 4b-38 of the General Statutes of Connecticut, as revised, and The Reliance Fire Department, Incorporated, hereinafter called the LESSEE, having its principal place of business at 295 Cow Hill Road, Mystic, Connecticut 06355, acting herein by Carl A. Strand Jr., its district president; Woodrow W. Klewin, its company president; and Kenneth W. Richards Jr., its fire chief, all duly authorized.

WITNESSETH

The parties hereto for the consideration hereinafter mentioned covenant and agree as follows:

1. The LESSOR agrees to and does hereby lease unto the LESSEE 7.89 acres of land located at the Mystic Educational Center, Groton, Connecticut described as the "Second Tract" in a deed to the Mystic Oral School for the Deaf dated January 4, 1921 and recorded in Vol. 64 at Page 399-401, a copy of which is appended hereto and made a part hereof as Exhibit A, which premises is further illustrated in an excerpt from the Town of Groton Assessor's Map as the 7.89 acre parcel shown thereon, a copy of which excerpt is appended hereto and made a part hereof as Exhibit B; to provide a site for construction of Old Mystic Fire Department, regional fire school for emergency personnel training.

2. The term of the lease shall extend for twenty (20) years commencing on the day next following the date the Attorney General of the State of Connecticut approves of this lease. The LESSOR has the right to terminate the lease at any time without cause and without penalty, subject to two (2) years advance written notice to the LESSEE.

3. The rent for this lease shall be $1.00 per year. Checks in payment of the rent shall be made payable to the order of the Treasurer, State of Connecticut and sent to Department of Public Works/Financial Management, 165 Capitol Avenue, Room 216, Hartford, Connecticut 06106.

4. The LESSOR reserves the right to enter and inspect the leased premises at any time with prior notice given to the LESSEE.

5. The LESSEE shall also reimburse the State of Connecticut Department of Public Works ("DPW") for the cost of any service provided to the LESSEE by DPW.

6. The LESSOR shall not be liable nor be obligated to pay for anything in connection with this lease.

The LESSEE shall provide and pay for the following: any and all costs associated with the construction, renovations, improvements, maintenance and repairs of the two-story burn building, classroom building, parking lot, roads and four-story training tower ("Proposed Buildings, Facilities and Improvements").

The LESSEE shall be responsible for all utility costs including the installation of utilities to service the Proposed Buildings, Facilities and Improvements.

All development, design and construction plans and specifications ("Plans and Specifications") for the Proposed Buildings, Facilities and Improvements shall be sealed and certified, as appropriate, by a State of Connecticut licensed architect for building structures and also by a professional licensed engineer for building all structures, roads, parking facilities and utilities, prior to submittal to DPW for review and comment. All persons providing such certifications shall be appropriately registered, licensed and in good standing in the State of Connecticut.

Within sixty (60) days after receipt of the Plans and Specifications, DPW shall inform the LESSEE of revisions or modifications that DPW requires, if any, to the Plans and Specifications in order to secure the LESSOR'S prior written approval.

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As special conditions, the LESSEE further agrees to the following:

a. Any plans and specifications, including without limitation the said Plans and Specifications, for renovation work or construction of additional buildings must be submitted to the LESSOR, who retains the right to reject any and all such plans and specifications, which rejection, if any, shall not be unreasonable.

b. The LESSEE shall maintain the Proposed Buildings, Facilities, Improvements and grounds of the demised premises according to the standards set by the Department of Public Works.

c. The LESSEE will be responsible for all utility costs including the installation of utilities to service the Proposed Buildings, Facilities and Improvements.

d. The LESSSEE shall obtain at its own expense, all permits necessary for construction of the Proposed Buildings, Facilities and Improvements.

e. The LESSOR shall have the option of canceling this lease if approvals for financing, environmental or traffic permits are not obtained within two (2) years of the date of the signing of this lease.

f. Any taxes, assessments, special assessments or special permits or similar charges, if any, related to the leased premises, shall be the responsibility of the LESSEE.

g. Notwithstanding anything to the contrary in this lease, this lease may also be terminated by the LESSOR upon the giving of ninety (90) days' prior written notice to the LESSEE upon:

1. the cessation by the LESSEE of the use of the leased premises for the purposes hereinbefore set forth; or

2. by lack of funds; or

3. because the LESSEE becomes inactive.

h. No alcoholic beverages shall be consumed by the LESSEE or the LESSEE'S clients, officers, agents, employees, licensees, contractors, invitees, visitors and guests on the leased premises and in or about the building or buildings in which the demised premises are located in, on or about the LESSOR'S adjoining property, buildings, improvements, structures and facilities at Mystic Educational Center, Groton.

i. No construction, additions, repairs or alterations which the LESSEE may perform under this lease shall be permitted without the prior written approval of the LESSOR. Notwithstanding the LESSOR'S recommendations and/or approval of the LESSEE'S improvement plans, specifications and completed work, such recommendations or approval shall not constitute any acceptance or warranty by the LESSOR to LESSEE of the adequacy of the design or quality of the work or materials used in connection with such work for the LESSEE'S intended use.

j. At the option of the LESSOR, the LESSEE may be required to restore the demised premises to tenantable condition.

k. The LESSOR makes no guarantee as to the sufficiency of electricity; the life or efficiency of its mechanical system or the nonexistence of asbestos or lead paint at the leased premises, facility and remaining grounds and property owned by the State of Connecticut.

l. The parties agree that this lease is not to be assigned and the leased premises are not to be sublet, in whole or in part, by the LESSEE without the prior written consent of the Department of Public Works Commissioner. In the event such consent is given, the LESSEE shall not be relieved from any obligation under this lease by reason of any such assignment or subletting.

m. The LESSOR shall not be liable for the interruption of any service or utilities when such failure is caused by acts of God, accidents, breakage, repairs, strikes or by any other condition beyond the LESSOR'S reasonable control.

7. It is understood that taxes, assessments, special assessments or special permits, including without limitation the expense of all permits necessary for construction of any and all proposed buildings and structures, or similar charges, if any, related to the demised premises, of any nature whatsoever, shall be the responsibility of the LESSEE.

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8. At all times during this lease, and during any extension or renewal or hold over period thereof, the LESSEE shall protect, indemnify and hold harmless the LESSOR, its officers, agents and employees, from against any and all loss, cost, liability, injuries (including death), damages, compensation, and expense, including without limitation, all claims, demands, penalties, actions, causes of action, suits, litigation and attorney's fees and costs, sustained by or alleged to have been sustained by the LESSOR, its officers, agents and employees, and sustained by or alleged to have been sustained by the property, real or personal, of the LESSOR, its officers, agents and employees, and sustained by or alleged to have been sustained by the public or by any other person or property, real or personal, from, or arising out of, or directly or indirectly due to, any cause, condition, event, accident, incident, happening or occurrence, related to and including, without limitation, the following:

(a) The acts, omissions, or negligence of the LESSEE and of the LESSEE'S officers, agents, employees, invitees, contractors, licensees, guests, visitors, clients and any and all persons under the control of the LESSEE, in or about the demised premises and in or about the building or buildings in which the demised premises are located and in or about the LESSOR'S adjoining property, buildings, improvements, structures and facilities at the Mystic Educational Center, Groton, Connecticut;

(b) The acts, omissions, or negligence of the LESSEE and of the LESSEE'S officers, agents, employees, invitees, contractors, licensees, guests, visitors, clients and any and all persons under the control of the LESSEE at any location outside of the Mystic Educational Center, Groton, Connecticut;

(c) The LESSEE'S use or activity or the conduct of its business or from any activity, work, or thing done, permitted, or suffered by the LESSEE, in or about the demised premises and in or about the building or buildings in which the demised premises are located and in or about the LESSOR'S adjoining property, buildings, improvements, structures and facilities at the Mystic Educational Center, Groton, Connecticut;

(d) The LESSEE'S use, activity or conduct of its business or from any activity, work or thing done, permitted, or suffered by the LESSEE, at any location outside of the Mystic Educational Center, Groton, Connecticut;

(e) The use or activity or conduct of the LESSEE'S business by the LESSEE'S officers, agents, and employees or any activity, work, or thing done, permitted, or suffered by the LESSEE'S officers, agents, employees, invitees, contractors, licensees, guests, visitors, clients and any and all persons under the control of the LESSEE, in or about the demised premises and in or about the building or buildings in which the demised premises are located and in or about the LESSOR'S adjoining property, buildings, improvements, structures and facilities at the Mystic Educational Center, Groton, Connecticut;

(f) The use or activity or conduct of LESSEE'S business by the LESSEE'S officers, agents and employees, or any activity, work, or thing done, permitted, or suffered by the LESSEE'S officers, agents, employees, invitees, contractors, licensees, guests, visitors, clients and any and all persons under the control of the LESSEE, at any location outside of the Mystic Educational Center, Groton, Connecticut;

(g) The LESSEE'S default in its observance and performance of any of the terms, covenants or conditions of this lease and of any extension or renewal of this lease.

The LESSEE shall provide and maintain public, personal, property and auto liability insurance, with the LESSOR named as an additional insured in a combined single minimum amount of $1,000,000.00 for bodily injury (including death) and property damage to protect the interest of the LESSOR as it appears herein, at no cost to the LESSOR, and shall annually provide the LESSOR with a certificate of insurance to this effect, at the LESSEE'S expense; and the LESSEE shall additionally provide and maintain standard fire and casualty insurance, including extended coverage, vandalism, malicious mischief, and special extended coverage ("all risks"), with the LESSOR named as an additional insured in an amount equal to not less than 100% of the replacement cost of the Proposed Buildings, Facilities and Improvements, including without limitation any other buildings, facilities and improvements on and to be placed on the demised premises to protect the LESSOR'S interest in the LESSOR'S property as appears herein, at no cost to the LESSOR, and at no cost to the LESSOR, the LESSEE shall also annually provide the LESSOR with a certificate of such fire and casualty insurance to this

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effect. Such certificates of insurance shall also specifically indicate that the policies insuring the LESSOR include, but without limitation, said liability and, fire and casualty insurance coverage pertaining to any and all risks described under Section 8 and subsections 8(a),8(b),8(c),8(d), 8(e),8(f), and 8(g) herein.

(h) In case any claim, action, cause of action, suit, proceeding, litigation is brought against the LESSOR, its officers, agents and employees, by reason of any of the same, the LESSEE shall, at the LESSEE'S expense, resist and defend such claim, action, cause of action, suit, proceeding or litigation, or cause the same to be resisted or defended, by retained counsel reasonably satisfactory to the LESSOR.

(i) The required certificates of insurance shall include a statement that the LESSOR is an additional insured. Such policies of insurance shall also provide notification to the LESSOR at least thirty (30) days prior to any cancellation or modification of coverage.

9. The LESSEE agrees to indemnify and hold and save LESSOR harmless from and against (a) all claims, adjudications, charge, liens, order, fines, suits, loss, cost, liability, expense, demands, actions and judgments of every kind and character by reason of any breach, violation or nonperformance of any term, provision, covenant, agreement or condition on the part of the LESSEE, its officers, agents, employees, invitees, contractors, licensees, guests, visitors and clients under this lease or that may arise out of or are connected with the LESSEE'S installation or operations of its material and use of the leased premises; (b) all subrogation claims by the LESSEE'S insurance carrier and (c) all claims, demands, actions, damages, loss, cost, liabilities, adjudications, charge, liens, order, expense, suits and judgments suffered by or recovered from or asserted against the LESSOR on account of injury or damage to person or property incident to or arising out or from the actions of, or caused by either, wholly or in part, the LESSEE or any of its officers, agents, employees, invitees, contractors, licensees, guests, visitors and clients or when any injury or damage is the result of the violation by the LESSEE, its officers, agents, employees, invitees, contractors, licensees, guests, visitors and clients of any law, ordinance or governmental order of any kind or of any of the rules and regulations under law or that may be attached hereto in any Exhibit and made a part hereof. If any such proceeding, claim, action or matter is brought against the LESSOR, its agents, officers or employees, the LESSEE agrees to retain counsel reasonably satisfactory to the LESSOR to defend such proceeding, claim, action or matter at the LESSEE'S sole cost and expense.

10. The LESSEE shall not permit any materialman's or mechanic's lien or liens to be placed upon the leased premises or caused by or resulting from any work performed, materials furnished or obligations incurred by or at the request of LESSEE and nothing contained in this lease shall be in any way a consent or request to the LESSEE, express or implied, by inference or otherwise, to any contractor, subcontractor, laborer or materialman for the performance of any labor or the furnishing of any materials for any specific improvement, alteration or repair of or to the leased premises or any part thereof, nor as giving LESSEE any right to contract for or permit the rendering of any services or the furnishing of any materials that would give rise to the filing of any materialman's or mechanic's lien or other lien or liens against the interest of the LESSOR. In addition, the LESSEE shall pay or settle all expenses and liabilities arising out of or in connection with any construction, repair, alteration, or maintenance of any future building or other future structure on the demised premises. The LESSEE shall keep the demised premises and said future structures on the demised premises free and clear from all liens of mechanics or material suppliers, and all liens of a similar character, arising out of the construction, repair, alteration, or maintenance of such future structures. In the case of the filing of any lien or claim for lien, the LESSEE shall discharge such lien or claim for lien by payment, deposit, bond or by order of a court of competent jurisdiction or otherwise within thirty (30) business days after its filing. If the LESSEE fails to discharge any lien or claim for lien within this period, then, in addition to any other right or remedy of the LESSOR, the LESSOR, without investigating its validity, may discharge the same either by paying the amount claimed to be due or by procuring its discharge by deposit in court or bonding. Any amount paid by the LESSOR for any of the aforesaid purposes, and all reasonable legal and other expenses of LESSOR, including reasonable attorneys' fees, in any legal action or in procuring the discharge of any lien, with all disbursements in connection therewith, shall be paid by the LESSEE to the LESSOR on demand with interest thereon of ten percent, from the date of payment. The LESSEE shall provide the LESSOR with all written lien waivers prior to the construction of any buildings or structures, and the performing of any renovations and improvements, on the demised premises.

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11. Each agreement of the LESSEE contained in this lease is material and the essence of this lease, and if the LESSEE shall default or permit a breach in whole or in part of any covenant, agreement ordinance, or stipulation specified in this lease to be kept by it the LESSOR may give the LESSEE or LESSEE'S representative notice, in the manner provided under Section Twenty-Five (25) of this lease, of such breach or default and the LESSEE shall have thirty (30) days, except as otherwise provided in this lease, after the giving of such notice within which to cure and rectify such breach or default, and in the event the LESSEE does not within such thirty-day period cure and rectify such breach or default, then it shall be lawful for the LESSOR, its successors or assigns, without further notice, to declare this lease terminated and to demand possession of the leased premises from any person or persons occupying same, without prejudice to any claim for damages, or breach of contract, or for matured rentals or guarantees of future rentals or guarantees, or to any other remedies, legal or equitable, to which the LESSOR may be entitled; and such events of default or breach shall include, but are not limited to, the following events of default or breach by the LESSEE under this lease:

(a) LESSEE fails to pay in any installment of the rent hereby reserved within five (5) days after such installment is due and LESSEE shall thereafter fail to pay such installment within five (5) days after notice is given by LESSOR, in the manner provided under Section Twenty-Five (25) of this lease, that such installment is overdue. In the event the LESSEE does not cure the rental deficiency within fifteen (15) days after such notice is given by the LESSOR, this lease shall automatically terminate without any further action on the part of the LESSOR and the LESSOR may pursue any of the remedies, in whole or in part, mentioned in Subsection (i) of this Section Eleven (11).

(b) LESSEE fails to comply with any term, provision or covenant of this lease other than the payment of rent, and does not cure such failure as soon as reasonably practicable and in any event not more than thirty (30) days after notice thereof is given, in the manner provided under Section Twenty-Five (25) of this lease, to LESSEE except that in the event that the failure to comply executes a condition which would constitute a hazard to the LESSOR, then immediately upon receipt of a notice thereof, LESSEE shall cause such hazardous condition to be corrected.

(c) LESSEE or any Guarantor of LESSEE'S obligations under this lease ("Guarantor") becomes insolvent, or makes a transfer in fraud of creditors, or makes an assignment for the benefit of creditors, or LESSEE or any Guarantor admits in writing its inability to pay its debts as they become due.

(d) LESSEE or any Guarantor files a petition under any section or chapter of the United States Bankruptcy Code, as amended, or under any similar law or statute of the United States or any State thereof, or an order for relief is entered with respect to LESSEE or any Guarantor in any bankruptcy or insolvency proceedings; or a petitioner's answer proposing the entry of an order for relief with respect to the LESSEE in a bankruptcy or a reorganization proceeding under any present or future federal or state bankruptcy or similar law is filed in any court and not discharged or denied within sixty (60) days after its filing.

(e) A receiver or trustee is appointed for all or substantially all of the assets of LESSEE or any Guarantor or any of LESSEE'S property located thereon in any proceeding brought by LESSEE, or any receiver or trustee is appointed in any proceeding brought against LESSEE or any Guarantor and not discharged within sixty (60) days after appointment or LESSEE or any Guarantor shall consent to or acquiesce in such appointment.

(f) The leasehold estate of LESSEE under this lease is taken in whole or part, on execution or other process of law in any action against LESSEE.

(g) LESSEE fails to move into or take possession of the leased premises within thirty (30) days after the Commencement Date.

(h) Vacation or abandonment of the demised premises. Vacation or abandonment includes, but is not limited to, any absence from the demised premises for thirty (30) business days or longer.

(i) If in any event default or breach by LESSEE occurs, LESSOR has the right, then or at any time thereafter while the event of default or breach continues, to pursue any additional remedies, legal or equitable, to which the LESSOR may be entitled, whether or not such remedies are mentioned in this lease, and which remedies shall include, but are not limited to, one or more of the following:

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(1) Terminate this lease by notice, in the manner provided under Section Twenty-Five (25) of this lease, to LESSEE, in which event the LESSEE shall immediately surrender the leased premises to LESSOR and if LESSEE fails to do so, LESSOR, without prejudice to any other remedy that it may have for possession or arrearages in rent, may enter upon and take possession of the leased premises and expel or remove LESSEE and any other person or entity who may be occupying the leased premises, or any part thereof, without being subject to prosecution or liable for any claim of damages, and LESSEE shall pay to LESSOR on demand the amount of all loss and damage which LESSOR may suffer by reason of this termination, whether through inability to relet the leased premises on satisfactory terms or otherwise, specifically including, but not limited to (i) all reasonable expenses necessary to relet the leased premises which shall include the cost of renovating, repairing and altering the leased premises for a new tenant or lessee, advertisements and brokerage fees and (ii) any increase in insurance premiums caused by the vacancy of the leased premises. Nothing contained in this lease shall limit or prejudice the right of LESSOR to prove for and obtain in proceedings for bankruptcy or insolvency by reason of the termination of this lease an amount equal to the maximum allowed by any statute or rule of law in effect at the time when, and governing the proceedings in which, the damages are to be proved, whether or not the amount be greater, equal to, or less than the amount of the loss or damages referred to above.

(2) Enter upon and take possession of the leased premises and expel or remove LESSEE or any other person or other entity who may be occupying the leased premises, or any part thereof, including any property owned by the LESSEE or such other person or entity, without incurring any civil or criminal liability and, without terminating this lease, LESSOR may relet, at its election, the leased premises or any part thereof for the account of LESSEE, in the name of LESSEE or LESSOR or otherwise, without notice to LESSEE for a term or terms (which may be greater or less than the period which would otherwise have constituted the balance of the term of this lease) and on conditions (which may include concessions or free rent) and for uses as LESSOR in its absolute discretion may determine and LESSOR may collect and receive any rents payable by reason of such reletting; and LESSEE shall pay LESSOR on demand all reasonable expense necessary to relet the leased premises which shall include the cost of renovating, repairing and altering the leased premises for a new tenant or tenants, advertisements and brokerage fees, and LESSEE shall also pay LESSOR on demand any deficiency that may arise by reason of the reletting. LESSOR shall not be responsible or liable for any failure to relet the leased premises or any part thereof or for any failure to collect any rent due upon any reletting. Unless otherwise stated in this lease, no re-entry or taking of possession of the leased premises by LESSOR shall be an election on LESSOR'S part to terminate this lease unless a notice of termination is given to LESSEE pursuant to subdivision (1) of subsection (i) of this Section Eleven (11).

(3) Enter upon the leased premises in a peaceable manner or under legal process of taking possession thereof and do whatever LESSEE is obligated to do under the terms of this lease, and LESSEE shall reimburse LESSOR on demand for any expenses which LESSOR may incur in thus effecting compliance with LESSEE'S obligations under this lease.

(4) In the event of any breach or default of the LESSEE, in addition to any other remedies available to LESSOR at law or in equity the LESSOR shall have the immediate option to terminate this lease and all rights of LESSEE under this lease.

In the event that LESSOR shall so elect to terminate this lease pursuant to this Section Eleven (11) and/or if this lease is automatically terminated under Subsection (a) of Section Eleven (11) and/or terminated under any other section of this lease, then LESSOR may recover from LESSEE:

(a) Worth at the time of the award of any unpaid rent that was due and owing at the time of such termination;

(b) Worth at the time of the award of the amount of the unpaid rent that would have been earned from the date of termination until the time of award, less the amount of such rental loss LESSEE proves could have been reasonably avoided; and

(c) Worth at the time of the award of the amount of the unpaid rent due for the balance of the term of this lease after the time of the award, less the amount of such rental loss LESSEE proves could reasonably have been avoided.

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The term "worth" herein shall mean the unpaid rent due plus interest at the rate of ten percent (10%) commencing from the due dates of the unpaid rental payments.

(d) The parties hereto also agree that this lease may be terminated immediately, at the option of the LESSOR, without any obligations being thrust upon the LESSOR of any nature whatsoever, upon the happening of any of the following:

1. The filing of any liens, of any nature whatsoever, against the leased premises;

2. The determination by the Secretary of the State that the LESSEE is in default or is no longer in good standing as a corporation under the laws of the State of Connecticut;

3. The cessation by the LESSEE of the use of the leased premises for the purpose hereinbefore set forth, because of the lack of funds or because the LESSEE becomes inactive or for any other reason;

4. Any other breach of the terms and conditions of this lease.

In the event of such termination, the LESSEE shall have no claim against the LESSOR for the value of the unexpired term of the lease.

No repossession of or re-entering on the leased premises or any part thereof and no reletting of the leased premises or any part thereof shall relieve LESSEE or any Grantor of its liabilities and obligations under this lease, all of which survive repossession or re-entering. In the event of any repossession or re-entering on the leased premises or any part thereof by reason of the occurrence of an event of default or breach, LESSEE shall pay to LESSOR the rent required to be paid by LESSEE, except LESSOR shall use its best efforts to relet the leased premises and use the proceeds to reduce LESSEE'S liability.

No right or remedy conferred upon or reserved to LESSOR is intended to be exclusive of any other right or remedy, and each and every right and remedy is cumulative and in addition to any other right or remedy given under this lease or now or hereafter existing at law or in equity or by statute. In addition to other remedies provided in this lease, LESSOR is entitled, to the extent permitted by applicable law, to injunctive relief in case of the violation, or attempted or threatened violation, of any of the covenants, agreements, conditions or provisions of this lease, or to a decree compelling performance of any of the covenants, agreements, conditions or provisions of this lease and any other remedy allowed to LESSOR at law or in equity.

The failure of LESSOR to insist at any time upon the strict performance by LESSEE of any covenant or agreement or strict compliance by LESSEE with any condition imposed on it or to exercise any option, right, power or remedy contained in this lease is not a waiver or a relinquishment thereof for the future. The waiver of or redress for any violation of any term, covenant, agreement or condition contained in this lease or contained in the rules and regulations of the LESSOR (as may be hereafter amended or supplemented) shall not prevent a subsequent act, which would have originally constituted a violation, from having all the force and effect of an original violation. No express waiver shall affect any condition other than the one specified in the waiver and that one only for the time and in the manner specifically stated. A receipt by LESSOR of any rent with knowledge of the breach of any covenant or agreement contained in this lease shall not be a waiver of the breach, and no waiver by LESSOR of any provision of this lease shall be effective unless expressed in writing and signed by LESSOR. No payment by LESSEE or receipt by LESSOR of lesser amount than the monthly installment of rent due under this lease shall be other than on account of the earliest rent due under this lease, nor shall any endorsement or statement on any check or any letter accompanying any check or payment as rent be an accord and satisfaction, and LESSOR may accept any check or payment without prejudice to LESSOR'S right to recover the balance of the rent or pursue any other remedy provided in this lease. Unless stated otherwise in this lease, in the event of any act or omission by LESSEE under this lease, except the late payment of rent, which would cause an event of default or breach by LESSEE, the LESSOR shall not pursue any remedies to cure such default or breach until it shall have given LESSEE notice, in the manner provided under Section Twenty-Five (25) of this lease, of such act or omission by LESSEE.

12. "Hazardous Substances" shall mean any and all materials, chemicals, or other substances defined as hazardous, hazardous waste or toxic waste or otherwise regulated or controlled pursuant to any of the Environmental Laws.

RBS 5/2/02

"Environmental Laws" shall mean and include any Federal, State or local statute, law, ordinance, code, rule, regulation, order, or decree regulation, relating to protection of human health or the environment, or imposing liability or standards of conduct concerning any hazardous, toxic, or waste substance, element, compound, mixture or material, as now or at any time hereafter in effect including, without limitation, the Federal Comprehensive Environmental Response, Compensation and Liability Act, as amended, 42 U.S.C. Sections 9601 *et seq.*, the Superfund Amendments and Reauthorization Act, 42 U.S.C. Sections 9602 *et seq.*, the Federal Oil Pollution Act of 1990, 33 U.S.C. Sections 2701, *et. seq.*, the Federal Toxic Substance Control Act, 15 U.S.C. Sections 2601 *et seq.*, the Federal Resource Conservation and Recovery Act as amended, 42 U.S.C. Sections 6901 *et seq.*, the Federal Hazardous Material Transportation Act, 49 U.S.C. Sections 1801 *et seq.*, the Federal Clean Air Act, 42 U.S.C. Sections 7401 *et seq.*, the Federal Water Pollution Control Act, 33 U.S.C. Sections 1251 *et seq.*, the River and Harbors Act of 1899, 33 U.S.C. Sections 401 *et seq.*, and all rules and regulations of the Federal Environmental Protection Agency (EPA), or any other state or federal department, board, or agency having jurisdiction over environmental or health and safety matters, as such have been amended.

The LESSEE shall comply strictly and in all respects with the requirements of the Environmental Laws.

The LESSEE shall not use any Hazardous Substance at, on, under, or about the leased premises except as such Hazardous Substance use is approved in writing by the LESSOR.

Prior to the LESSEE'S use of any Hazardous Substance at, on, under, or about the leased premises, the LESSEE shall also obtain from the EPA and the Connecticut Department of Environmental Protection (DEP) all necessary permits for the use of such Hazardous Substance at, on, under, or about the leased premises.

All "Material Safety Data Sheets" and copies of Hazardous Substance permits from the EPA and DEP shall be provided by the LESSEE to the LESSOR prior to the Commencement Date of this lease agreement.

The LESSEE agrees to remediate at its sole cost and expense all Hazardous Substance contamination that is found to have occurred as the direct or incidental result of the LESSEE'S use of the leased premises and the LESSEE'S use of equipment and material at, on, under, or about the leased premises.

The LESSEE shall also indemnify, defend, and hold harmless LESSOR and its officers, employees and agents and their respective heirs, legal representatives, successors and assigns, from and against any and all loss, damage, cost, charge, liens, debt, fine penalty, injunctive relief, claim, demand, expense, suit, order, judgment, adjudication, liability, or injury to person, property or natural resources, including attorneys' fees and consultant fees arising out of, attributable to, which may accrue out of, or which may result from (i) a violation or alleged violation of the Environmental Laws in connection with the LESSEE'S use of the leased premises and use of the LESSEE'S property, equipment and material, or (ii) the disposal or alleged disposal of Hazardous Substance whether intentional or unintentional, direct or indirect, foreseeable or unforeseeable, by the LESSEE, its officers, agents, employees, invitees, licensees, guests, visitors, clients, and by anyone acting on behalf of the LESSEE.

The LESSEE shall not enter into any consent decree, order or agreement with any State, federal or local governmental agency with respect to any claim of any violation of the Environmental Laws.

All of the LESSEE'S obligations hereunder shall survive this lease Agreement or any other agreement or action including without limitation, any consent decree, order or other agreement between the LESSEE and the government of the United States or any department or agency thereof.

13. The LESSOR shall not at any time be responsible for any damage, loss or theft of the LESSEE'S property on the leased premises.

14. It is agreed that this lease shall be governed by, construed and enforced in accordance with the laws of the State of Connecticut.

RB 5/2/02

15. No dangerous explosives shall be permitted to be brought onto the leased premises and no such explosives shall be stored or used on the leased premises.

16. The local and state police and the local fire department, shall at all times have access to the leased premises and the right at any time to inspect the leased premises without prior notice; and in the event of any emergency, the LESSOR shall have access to and the right to inspect the leased premises, without prior notice.

17. The LESSEE agrees that it will use the leased premises so as to conform with and not violate any laws, regulations and/or requirements of the United States and/or the State of Connecticut and/or any ordinance, rule or regulation of the Town of Groton now or hereafter made, relating to the use of the premises, and the LESSEE shall save the LESSOR harmless from any fines, penalties or costs for violation of or noncompliance with the same.

18. At the expiration or other termination of this lease, the LESSEE shall surrender the demised premises and all improvements constructed above on or under said premises to LESSOR and said improvements in as good condition as that existing at the beginning of the lease term except for reasonable use and wear thereof and except for damage caused by unavoidable circumstances and except for any alterations or additions which may have been made by the LESSEE at the LESSEE'S expense with the prior written consent of the LESSOR. Any such alterations or additions shall become, at no cost to the LESSOR, the property of the LESSOR. The LESSOR reserves the right, however, at the termination or expiration of the lease, to demand, upon notice to the LESSEE, as provided under Section Twenty-Five (25) of this lease, that the LESSEE remove such alterations and additions at the LESSEE'S expense, leaving the leased property in substantially the same condition as it was at the beginning of the lease term.

At the option of the LESSOR, upon termination and/or expiration of the lease agreement for cause or otherwise, (a) title to the Proposed Buildings, Facilities and Improvements and to all buildings, facilities and improvements constructed and/or installed on the leased premises shall vest in the LESSOR, and all fixtures attached to the leased premises or to buildings or structures on the leased premises shall become the property of the LESSOR. The LESSEE shall have the right to remove from the leased premises all personal property and shall repair any damages to the leased premises resulting from such removal. The LESSEE shall not be deemed a Tenant holding over by reason of the fact that it allows any such personal property to remain on the leased premises after lease termination or expiration. Any personal property, which is not removed within a period of fifteen (15) business days following lease termination or expiration, shall be deemed to have been abandoned to the LESSOR or (b) alternatively, at the request of the LESSOR, the LESSEE at its sole cost and expense, shall restore the premises to its original condition, as reasonably feasible.

At or following termination of the lease, or if the LESSOR elects to take title to the Proposed Buildings, Facilities and Improvements and all buildings and improvements constructed and/or installed on the leased premises following lease termination or expiration, such title shall be free and clear of any mortgage, pledge, lien, hypothecation or other encumbrance.

19. This lease may be terminated at any time by the LESSOR during the lease term upon the breach of the terms and conditions of this lease by the LESSEE. In the event of such termination, the LESSEE shall have no claim against the LESSOR for the value of the unexpired duration of the lease.

20. This lease, whatever the circumstances, shall not be binding on the LESSOR unless and until approved by the Attorney General of the State of Connecticut and delivered to the LESSEE.

21. The LESSOR shall not be liable to the LESSEE and to any person for any loss, damage to any person for any loss damage to any property or injury to any person occasioned by theft, fire, act of God, public enemy, injunction, riot, insurrection, war, court order, requisition or order of governmental authority, or any other matter beyond the control of the LESSOR.

22. If for any reason the terms of this lease or any substantive provision thereof, shall be found to be unenforceable, illegal or violative of public policy, this lease, shall automatically be amended to conform to the applicable decision, and the LESSOR and LESSEE hereto expressly agree to execute any amendments necessary to effectuate the goals and purposes of this lease.

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23. For the purposes of this section, the word "contractor," except where it is immediately preceded by the word "small," is substituted for and has the same meaning and effect as if it read "LESSEE." This section is inserted in connection with subsection (a) of Section 4a-60 of the General Statutes of Connecticut, as revised.

(a) For the purposes of this section, "minority business enterprise" means any small contractor or supplier of materials fifty-one per cent or more of the capital stock, if any, or assets of which is owned by a person or persons: (1) Who are active in the daily affairs of the enterprise, (2) who have the power to direct the management and policies of the enterprise and (3) who are members of a minority, as such term is defined in subsection (a) of Conn. Gen. Stat. Section 32-9n; and "good faith" means that degree of diligence which a reasonable person would exercise in the performance of legal duties and obligations. "Good faith efforts" shall include, but not be limited to, those reasonable initial efforts necessary to comply with statutory or regulatory requirements and additional or substituted efforts when it is determined that such initial efforts will not be sufficient to comply with such requirements.

For the purposes of this section, "commission" means the Commission on Human Rights and Opportunities.

For the purposes of this section, "public works contract" means any agreement between any individual, firm or corporation and the state or any political subdivision of the State other than a municipality, for construction, rehabilitation, conversion, extension, demolition or repair of a public building, highway or other changes or improvements in real property, or which is financed in whole or in part by the State, including, but not limited to, matching expenditures, grants, loans, insurance or guarantees.

(b)(1) the contractor agrees and warrants that in the performance of the contract such contractor will not discriminate or permit discrimination against any person or group of persons on the grounds of race, color, religious creed, age, marital status, national origin, ancestry, sex, mental retardation or physical disability, including, but not limited to, blindness, unless it is shown by such contractor that such disability prevents performance of the work involved, in any manner prohibited by the laws of the United States or of the state of Connecticut. The contractor further agrees to take affirmative action to insure that applicants with job related qualifications are employed and that employees are treated when employed without regard to their race, color, religious creed, age, marital status, national origin, ancestry, sex, mental retardation, or physical disability, including, but not limited to, blindness, unless it is shown by such contractor that such disability prevents performance of the work involved; (2) the contractor agrees, in all solicitations or advertisements for employees placed by or on behalf of the contractor, to state that it is an "affirmative action-equal opportunity employer" in accordance with regulations adopted by the commission; (3) the contractor agrees to provide each labor union or representative of workers with which such contractor has a collective bargaining agreement or other contract or understanding and each vendor with which such contractor has a contract or understanding, a notice to be provided by the commission advising the labor union or workers' representative of the contractor's commitments under this section, and to post copies of the notice in conspicuous places available to employees and applicants for employment; (4) the contractor agrees to comply with each provision of this section and Conn. Gen. Stat. Sections 46a-68e and 46a-68f and with each regulation or relevant order issued by said commission pursuant to Conn. Gen. Stat. Sections 46a-56, 46a-68e and 46a-68f; (5) the contractor agrees to provide the Commission on Human Rights and Opportunities with such information requested by the commission, and permit access to pertinent books, records and accounts, concerning the employment practices and procedures of the contractor as relate to the provisions of this section and Conn. Gen. Stat. Section 46a-56. If the contract is a public works contract , the contractor agrees and warrants that he will make good faith efforts to employ minority business enterprises as subcontractors and suppliers of materials on such public works project.

(c) Determination of the contractor's good faith efforts shall include but shall not be limited to the following factors: The contractor's employment and subcontracting policies, patterns and practices; affirmative advertising, recruitment and training; technical assistance activities and such other reasonable activities or efforts as the commission may prescribe that are designed to ensure the participation of minority business enterprises in public works projects.

(d) The contractor shall develop and maintain adequate documentation, in a manner prescribed by the commission, of its good faith efforts.

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(e) The contractor shall include the provisions of subsection (b) of this section in every subcontract or purchase order entered into in order to fulfill any obligation of a contract with the state and such provisions shall be binding on a subcontractor, vendor or manufacturer unless exempted by regulations or orders of the commission. The contractor shall take such action with respect to any such subcontract or purchase order as the commission may direct as a means of enforcing such provisions including sanctions for noncompliance in accordance with Conn. Gen. Stat. Section 46a-56; provided, if such contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the commission, the contractor may request the state of Connecticut to enter into any such litigation or negotiation prior thereto to protect the interests of the state and the state may so enter.

(f) The contractor agrees to comply with the regulations referred to in this section as they exist on the date of this contract and as they may be adopted or amended from time to time during the term of this contract and any amendments thereto.

24. For the purposes of this section, the word "contractor" is substituted for and has the same meaning and effect as if it read "LESSEE." This section is inserted in connection with subsection (a) of Section 4a-60a of the General Statutes of Connecticut, as revised.

(a) (1) The contractor agrees and warrants that in the performance of the contract such contractor will not discriminate or permit discrimination against any person or group of persons on the grounds of sexual orientation, in any manner prohibited by the laws of the United States or of the state of Connecticut, and that employees are treated when employed without regard to their sexual orientation; (2) the contractor agrees to provide each labor union or representative of workers with which such contractor has a collective bargaining agreement or other contract or understanding and each vendor with which such contractor has a contract or understanding, a notice to be provided by the commission on human rights and opportunities advising the labor union or workers' representative of the contractor's commitments under this section, and to post copies of the notice in conspicuous places available to employees and applicants for employment; (3) the contractor agrees to comply with each provision of this section and with each regulation or relevant order issued by said commission pursuant to section 46a-56 of the general statutes of Connecticut; (4) the contractor agrees to provide the Commission on Human Rights and Opportunities with such information requested by the commission, and permit access to pertinent books, records and accounts concerning the employment practices and procedures of the contractor which relate to the provisions of this section and section 46a-56 of the general statutes of Connecticut.

(b) The contractor shall include the provisions of subsection (a) of this section in every subcontract or purchase order entered into in order to fulfill any obligation of a contract with the state and such provisions shall be binding on a subcontractor, vendor or manufacturer unless exempted by regulations or orders of the commission. The contractor shall take such action with respect to any such subcontract or purchase order as the commission may direct as a means of enforcing such provisions including sanctions for noncompliance in accordance with section 46a-56 of the general statutes of Connecticut; provided, if such contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the commission, the contractor may request the state of Connecticut to enter into any such litigation or negotiation prior thereto to protect the interests of the state and the state may so enter.

(c) The contractor agrees to comply with the regulations referred to in this section as they exist on the date of this contract and as they may be adopted or amended from time to time during the term of this contract and any amendments thereto.

25. Notices from the LESSOR to the LESSEE shall be sufficient if delivered to the LESSEE or if sent by facsimile or if placed with the United States Postal Service, certified mail, postage prepaid, addressed to the LESSEE at the address shown in this lease. Notices from the LESSEE to the LESSOR shall be sufficient if placed with the United States Postal Service, certified mail, postage prepaid, addressed to the Commissioner, Department of Public Works, State Office Building, Hartford, Connecticut 06106.

26. The LESSOR shall not have any obligations under this lease except those expressly provided herein.

BB 5/2/02

27. The LESSOR shall not at any time be responsible for any damage, loss, theft of the LESSEE'S property on the leased premises and for any damage, loss or theft of the property of, or injury to (including death), the LESSEE'S officers, agents, employees, invitees, contractors, licensees, visitors, guests and clients.

28. This lease, including the exhibits and schedules attached hereto that are made a part of this lease and any plans, drawings, specifications, affidavits, maps, booklets or part thereof, any agreements and amendments thereto, and statements that are incorporated herein by reference and made a part of this lease, contains the entire agreement of the parties and all prior negotiations, agreements and understandings are merged herein. Neither the LESSOR'S nor the LESSEE'S representatives have made any representations or warranties with respect to the premises or this lease except as expressly set forth herein, and no rights, easements or licenses are or shall be acquired by the LESSEE by implication or otherwise unless expressly set forth herein.

29. Any modification of this lease or additional obligation assumed by either of the LESSOR or LESSEE in connection with this lease shall be binding only if evidence in writing signed by the LESSOR and the LESSEE or an authorized representative of the LESSOR or LESSEE, and approved by the Attorney General.

30. The LESSOR shall not be liable for damage to any property or injury to person caused by the LESSEE'S negligence, omission or misconduct or wilful, wanton and intentional acts or caused by the LESSEE'S criminal conduct.

31. The liability of LESSEE to indemnify and save and hold harmless the LESSOR shall be effectively protected by insurance. The limits of coverage of such insurance purchased by the LESSEE shall not in any way limit, reduce or restrict the LESSEE'S obligations under any indemnification and save and hold harmless provisions stated in this lease.

32. The LESSEE shall use the leased premises only for the purpose set forth in Section One (1) of this lease and for no other purpose.

33. LESSOR has and reserves the right to transfer, assign and convey, in whole or in part, the leased premises and any and all of its rights under this lease, and in the event LESSOR assigns its rights under this lease, LESSOR shall thereby be released from any further obligations under this lease, and the LESSEE shall look solely to LESSOR'S successor in interest for performance of those obligations.

34. The LESSOR may record this lease, provided however, that the LESSEE, at the written request of the LESSOR, shall join in the execution of a notice or memorandum of this lease in such form as the LESSOR shall prepare for the purpose of recordation pursuant to General Statutes Section 47-19.

35. The space allotted to the LESSEE within the leased premises shall be confined solely within the leased premises and at no time shall extend beyond any boundary of the leased premises, except for necessary ingress and egress to and from the leased premises as designated by the LESSOR.

36. The LESSEE shall immediately report all security incidents occurring in, on, or at the leased premises to the LESSOR'S Public Works Police. If the LESSOR'S Public Works Police are not working, the report shall be made instantaneously to the City or State Police, with a follow up report to the LESSOR'S Public Works Police at no later than 0700 hours of the next business day.

37. The LESSOR'S failure to give the notices mentioned in this lease agreement or in connection with any default by the LESSEE or the LESSOR'S settlement with, or acceptance of compensation from, the LESSEE after breach or default on the LESSEE'S part shall not be considered a waiver by the LESSOR of any breach or default by the LESSEE or any of the terms or provisions of this lease.

38. The failure of the LESSOR to insist upon the performance of any of the terms and conditions of this lease or the waiver of any default or breach of any of the terms and conditions of this lease, shall not be construed as thereafter waiving any such terms and conditions, but the same shall continue and remain in full force and effect as if no such forbearance or waiver had occurred.

BB 5/2/02

39. LESSEE covenants and warrants that it has full right and authority to enter into this lease for the full term herein granted.

40. The LESSOR shall not be liable to the LESSEE for any failure, delay or interruption in the performance of any terms, covenants or conditions of the lease beyond the control of LESSOR including without limitation: accidents, strikes, boycotts, labor disputes, the making of repairs, alterations or improvements to the premises, embargoes, shortages of material, acts of God, sabotage, inability to obtain an adequate supply of electricity, other utilities, or any other events or circumstances beyond LESSOR'S control. LESSEE shall not be entitled to any damages resulting from such failure nor shall such failure relieve LESSEE of the obligation to pay the rent reserved hereunder or constitute or be construed as a constructive or other eviction of LESSEE. Notwithstanding any of the provisions herein to the contrary, LESSOR shall have no obligation to rebuild or restore the leased premises or any services.

41. This lease shall be binding upon and shall inure to the benefit of the parties hereto and their successors and assigns.

42. The LESSOR shall not be responsible for any payments or reimbursements under this lease except those expressly provided herein.

43. Any document used to create a mortgage, pledge, hypothecation or any encumbrance with regard to the LESSEE'S leasehold estate shall first be approved in writing by the Office of the Attorney General. The LESSOR may withhold, at its sole reasonable discretion, approval of any encumbrance and no beneficiary of any encumbrance shall have the right to further transfer its benefits without prior approval in writing by the Office of the Attorney General.

44. The LESSOR acknowledges that the LESSEE may seek financing through a mortgage lender to enable the LESSEE to construct and operate facilities on the leased premises and accordingly, the lender may require the LESSEE to mortgage its leasehold estate. The LESSOR consents to the granting of a leasehold mortgage for such purposes but there shall be no merger between the lease fee estate of the leased premises and any value created by the leasehold estate or any other estate or interest in the leased premises, or any part thereof.

45. In the event the LESSEE fails to cure any default of the lease within the time allowed, the LESSOR shall provide the Leasehold Mortgagee with separate written notice of the failure of the LESSEE to cure such default within the time allowed and the Leasehold Mortgagee shall be allowed an additional thirty (30) business days to cure such default or diligently begin and proceed to cure such default if such default cannot reasonably be cured within thirty (30) days.

46. If the LESSOR requires the leased premises, this lease may be terminated by the LESSOR upon giving not less than two (2) years prior written notice to the LESSEE.

47. The LESSOR shall reimburse the LESSEE the amount of the non-depreciated cost of any extant and usable structures (buildings) paid for by the LESSEE located on the leased premises on the date of LESSOR'S written notice of termination. The non-depreciated cost payable to LESSEE is subject to adjustment as described in Paragraph Four (4) of this Section Forty-Seven (47) of this lease.

The depreciation method shall be straight-line over a term of Twenty (20) years.

On or before the ninetieth (90th) day following completion of LESSEE'S building renovations and improvements on the demised premises, including without limitation the Proposed Buildings, Facilities and Improvements, the LESSEE shall provide DPW, acting on behalf of LESSOR, with an itemized accounting of the cost of LESSEE'S said building renovations and improvements for the purpose of determining the total amount to be depreciated over the term of twenty (20) years. Personal property of the LESSEE and the cost of any renovations and improvements that it may be economically feasible for the LESSEE to salvage and relocate for subsequent use shall not be included as a depreciable cost.

The amount of non-depreciated cost reimbursable to the LESSEE shall decrease in direct proportion to the total amount of any State funds paid or payable to LESSEE pursuant to any Public Act or Special Act that may be used by the LESSEE for infrastructure repairs and/or improvements concerning fire and safety compliance, compliance with the Americans with Disabilities Act, as amended, and the Occupational Safety and Health Act and Energy Conservation or other improvements concerning the LESSEE'S regional fire training school to be developed at the leased premises.

RB 5/2/02

IN WITNESS WHEREOF, the parties have hereunto set their hands.

Signed in the presence of:

The Reliance Fire Department, Incorporated

by _____
Carl A. Strand Jr.
its district president
duly authorized

Date signed: 7/12/2002

by _____
Woodrow W. Klewin
its company president
duly authorized

Date signed: 7/12/02

by _____
Kenneth W. Richards
its fire chief
duly authorized

Date signed: 7/12/02.

State of Connecticut

by _____
P. J. Delahunty, Jr.
Its Deputy Commissioner of Public Works,
duly authorized

Date signed: 7-26-02

John J. Farrell

N'Marie Crumbie

State of Connecticut
ss: Connecticut.
County of New London

The foregoing instrument was acknowledged before me this 12th day of July, 2002. 2002 by Carl A. Strand Jr., district president of The Reliance Fire Department, Incorporated, a Connecticut corporation, on behalf of the corporation.

In witness whereof I hereunto set my hand.

Robin M. Brisson

Notary Public
Commissioner of the Superior Court
My commission expires

ROBIN M. BRISSON
NOTARY PUBLIC
MY COMMISSION EXPIRES JAN. 31, 2004

State of Connecticut
ss: Connecticut
County of New London

The foregoing instrument was acknowledged before me this 12th day of July 2002 2002 by Woodrow W. Klewin, company president of The Reliance Fire Department, Incorporated, a Connecticut corporation, on behalf of the corporation.

In witness whereof I hereunto set my hand.

Robin M. Bresson

ROBIN M. BRESSON
NOTARY PUBLIC
MY COMMISSION EXPIRES JAN. 31, 2004

Notary Public
Commissioner of the Superior Court
My commission expires

State of Connecticut
ss:
County of

The foregoing instrument was acknowledged before me this 12th day of July 2002 2002 by Kenneth W. Richards Jr., fire chief of The Reliance Fire Department, Incorporated, a Connecticut corporation, on behalf of the corporation.

In witness whereof I hereunto set my hand.

Robin M. Bresson

Notary Public
Commissioner of the Superior Court
My commission expires

ROBIN M. BRESSON
NOTARY PUBLIC
MY COMMISSION EXPIRES JAN. 31, 2004

State of Connecticut
ss: Hartford
County of Hartford

On this the 26th day of July 2002, before me, N'MARIE CRUMBIE the undersigned officer, personally appeared P. J. Delahunty, Jr., of the State of Connecticut, known to me to be the person described in the foregoing instrument, and acknowledged that he executed the same in the capacity therein stated and for the purposes therein contained.

In witness whereof I hereunto set my hand.

N'MARIE CRUMBIE

Notary Public
Commissioner of the Superior Court
My commission expires 2/28/06.

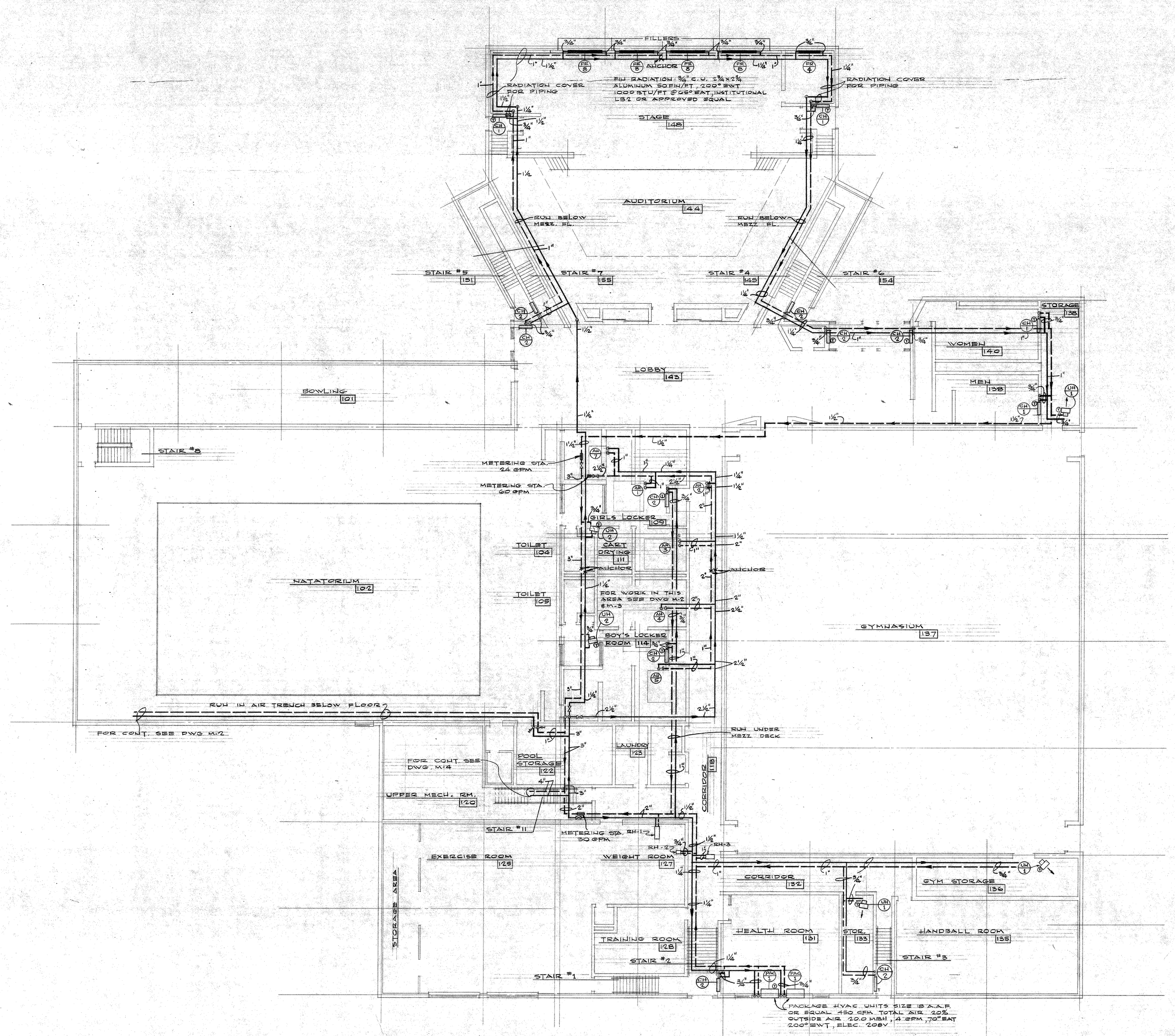
Approved:

Rowland Ballek Date signed: 8/1/02
Rowland Ballek, Chairman
State Properties Review Board

Approved:

Date signed: 9/19/02
Attorney General

Assoc. Atty. General



MAIN FLOOR PLAN

SCALE - 1/8" = 1'-0"

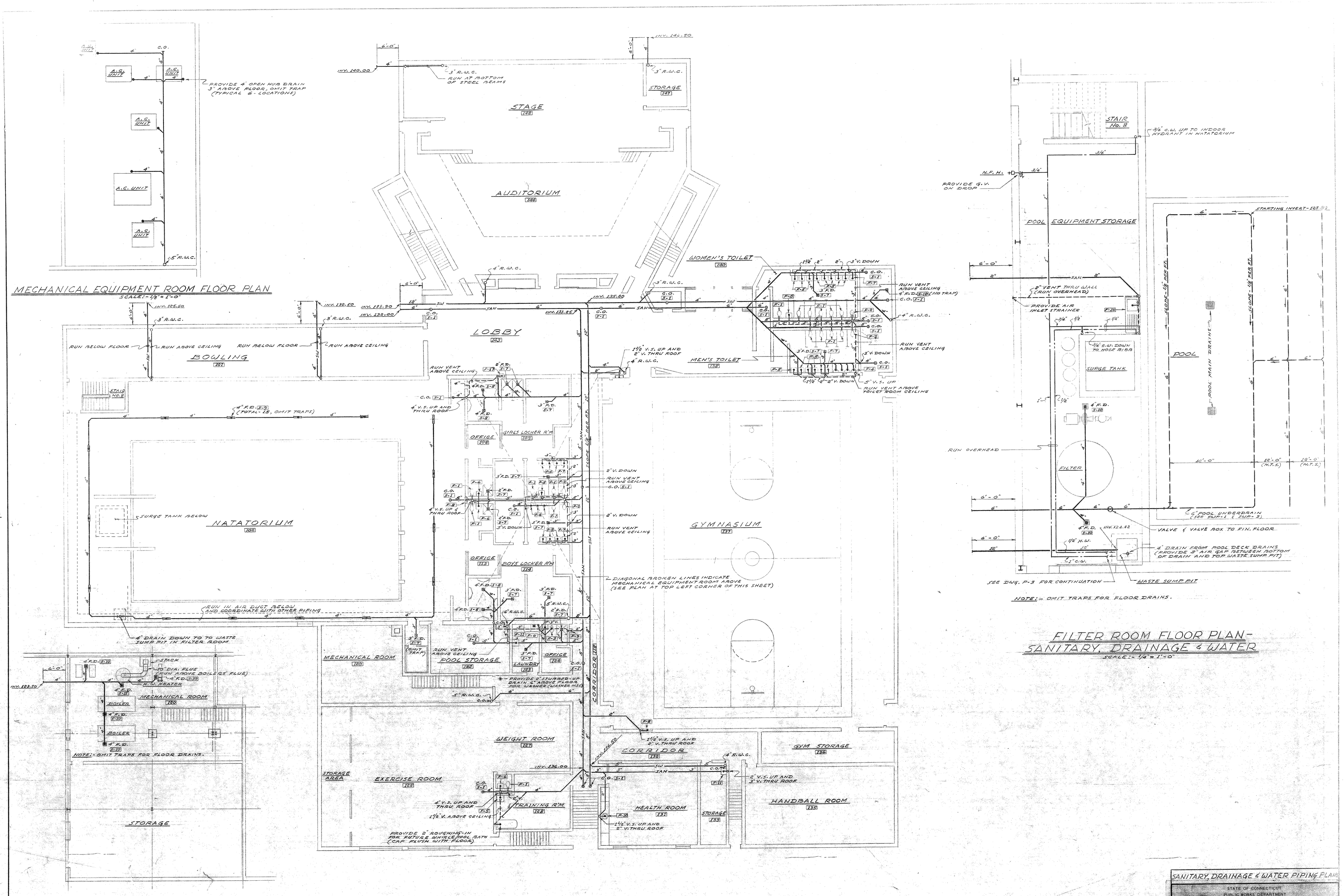
PIPING FLOOR PLAN

STATE OF CONNECTICUT
PUBLIC WORKS DEPARTMENT
PAUL J. MANAFORT, COMMISSIONER

DRAWN R.D.	GYM, AUDITORIUM & SWIMMING POOL FOR MYSTIC OPEAL SCHOOL MYSTIC, CONN.	PROJECT NO.
CHECKED B.B.		DRAWING NO. M-6
APPROVED		

PLANS PREPARED BY
OFFICE OF RANDOLPH J. STAUFFER, ARCHITECT
WETHERSFIELD, CONNECTICUT

SCALE - AS NOTED | DATE 4-12-74



SANITARY, DRAINAGE & WATER PIPING PLANS

STATE OF CONNECTICUT
PUBLIC WORKS DEPARTMENT
PAUL J. MANAFORT, COMMISSIONER

DRAWN R.D.J.	GYM, AUDITORIUM & SWIMMING POOL FOR MYSTIC ORAL SCHOOL MYSTIC, CONNECTICUT	PROJECT NO. BI-FRM-72
CHECKED R.D.J.		DRAWING NO. P-2
APPROVED		

PLANS PREPARED BY
OFFICE OF RANDOLPH J. STAUFFER, ARCHITECT
WETHERSFIELD, CONNECTICUT

SCALE (NOTED) DATE

FUSCO MANAGEMENT COMPANY, LLC

Mystic Education Center
240 Oral School Road
Mystic, Connecticut 06355

Building Descriptions

Building	Year Built	Material Used	Square Footage	Tenant
Administration Bldg.	1938	Masonry	69,658	~~DMR~~/DPW/A&T
Girls Bldg.	1923	Masonry	28,711	~~DMR~~ Leasing
Whipple Hall	1968	Masonry	24,458	DMR
Crouter Bldg.	1958	Masonry	7,588	Vacant
~~Superintendents~~		~~Wood~~		~~Vacant~~ [illegible]
Rainbow House	1928	Masonry	2,480	DMR
Maintenance Garage	1969	Masonry	1,276	
Durant Hall	1973	Masonry	58,233	DMR
Pratt Rec. Center	1975	Masonry	40,000	
4 Car Garage	1930	Wood	720	
Sewage Plant	1923	Masonry	296	
	Total Square Footage		**233,420**	

LONG WHARF MARITIME CENTER
555 LONG WHARF DRIVE • SUITE 14
NEW HAVEN • CONNECTICUT 06511
TELEPHONE 203 777 7451
FAX 203 787 9523

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC WORKS

T. R. Ansor
Commissione

Facsimile Cover Sheet

Date: Jan. 29, 2002
To: Mr. Niles
Organization: DPW
Fax Number: 1-860-713-7251
From: Harold

Mystic Educational Center
240 Oral School Road
Mystic, Ct. 06355-1206

Phone: 1-860-536-4221
Fax: 1-860-536-4221

Number of pages 4 Including cover sheet, If you do not receive all the pages, Please call: 1-860-536-4221.

Message:

George
Here is the information you requested.
Harold

Rev: 4/2000

:t-it® Fax Note 7671	Date 10-13-04	# of pages ▶ 3
Dave C.	From Harold	
Dept. DPW	Co. DPW	
ne #	Phone #	
# 713-8263	Fax # 536-4221	

.bject: Site Description

Mystic Education Center is a Seven-building campus-Type facility. The property consists of approximately 122 acres and 250,000 square feet of building floor space. I have five DPW employees that includes myself, plus one worker client. Department of Mental Retardation has a staff of about 109 that works out of Mystic Ed Center. Tunxis Management manager The property. We take care of the maintenance of all the building and grounds.

The oldest building on the campus (the "Girls Building" and Rainbow House") were constructed in 1928. The Girls building has three floors and a basement. The 1st floor is occupied with DMR offices and copy center. The other floors are vacant he Rainbow House is a DMR group home with five lady client -iving there.

The Administration building and boys wing were constructed n 1944. The Administration building has three floors and basement. The three floors ~~are~~ was occupied with DMR office. ~~The basement has space leased to Learn.~~ They have ~~one~~ Two Teacher and Three to Six students in the ~~Library area.~~ Girls building.

To: Mr. Niles
From: Harold Monroe
Date: Jan 29, 2002
Subject: Site Description

Mystic Education Center is a Seven-building campus-Type facility. The property consists of approximately 122 acres and 250,000 square feet of building floor space. I have ~~five~~ three DPW employees that includes myself, plus one worker client. Department of Mental Retardation has a staff of about 109 that works out of Mystic Ed Center. Tunxis Management manager The property. We take care of the maintenance of all the building and grounds.

The oldest building on the campus (the "Girls Building" and "Rainbow House") were constructed in 1928. The Girls building has three floors and a basement. The 1st floor is occupied with DMR offices and copy center. The other floors are vacant The Rainbow House is a DMR group home with five lady client Living There.

The Administration building and boys wing were constructed in 1944. The Administration building has three floors and basement. The three floors ~~are~~ was occupied with DMR office. The basement has space leased to Learn. They have one Teacher and Three students in the Library area.

The rest of the basement is DPW area that has a boiler room and workshop. The Boy's wing is Leased to Engineering Technology Center, Private Corporation. They have about ~~85~~ 99 staff that occupies all three floors of the boy's wings. They ~~are looking to expand~~ in the classroom area on the first floor. We do all the maintenance except the cleaning. They have their own crew. We also have two cell sites here. One is on the third floor, Leased to Bell Atlantic. The other cell site is leased to Sprint and they are on the chimney.

The Crouter building was constructed in the 1950's. The building is used for DPW storage.

The Whipple building was constructed in 1968. The classroom wing has DMR offices and classrooms. They bus in about 20-25 clients each day for their program. The other wing has DMR offices for birth to three programs. The third floor Apts. are vacant.

The Durant building was constructed in 1974. DMR occupies two areas. The girl's wing has a group home that is named Riverview unit. They have between 9-13 clients living there. The other area is call Durant apts. They have five men living there. The classrooms and boys wing is vacant.

The rest of the basement is DPW area that has a boiler room and workshop. The Boy's wing is Leased to AnTeen. They have about 99 staff that occupies all Three floors of th boy's wing and two floors of the classroom wing. We do all the maintenance except the cleaning. They have Their own crew.

We also have two cell sites here. One is on the Third floor, Leased to Bell Atlantic. The other cell site is Leased to Sprint and they are on the chimney.

The Crouter building was constructed in The 1950's. The building is used for storage.

The Whipple building was constructed in 1968. The classroo wing has DMR offices and classrooms. They bus in about 20-25 clients each day for their program. The other wing has DMR offices for birth to three programs. The third flo have two clients hein.

The Durant building was constructed in 1974. DMR occupies two areas. The girls and boys wing and Durant apts. The girls wing has a group home that is named Riverview unit. they have between 6-10 clients living there. The other area is call Durant apts have five men living There.

The Pratt building was constructed in 1977. This building has a gym, pool, weight room, bowling alley, and auditorium. DMR uses the pool for therapy and recreation. They bus in clients from all over the eastern region. We rent out the building to Learn, Lighthouse, ETC, and Groton Park + Rec. and in June for high school graduation party's. This building is open seven days a week.

The Cooks house was constructed in 1930's. The house is vacant. The Old Mystic Fire Dept. has been using it for Training. I understand they are in the process of getting a lease.

Should you have any questions, please donot hesitate to contact me.

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC WORKS

JOHN G. ROWLAND
Governor

T. R. Anso
Commissione

Facsimile Cover Sheet

Date: March 6 2003
To: Dave
Organization: DPW
Fax Number:
From: Harold

Mystic Educational Center
240 Oral School Road
Mystic, Ct. 06355-1206

Phone: 1-860-536-4221
Fax: 1-860-536-4222
Voice mail: 1-860-572-4919

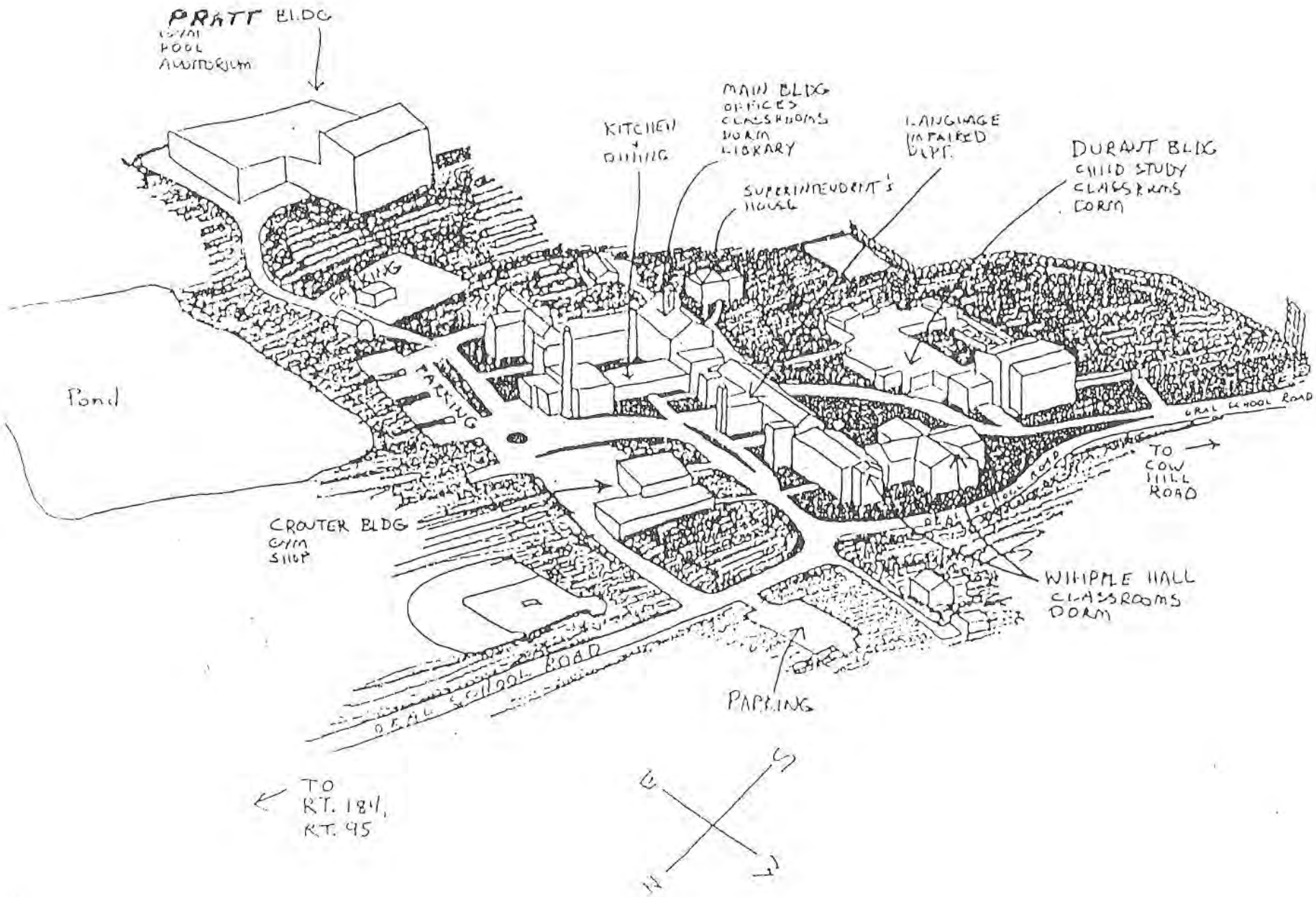
Number of pages 1 including cover sheet, If you do not receive all pages, Please call: 1-860-536-4221.

Message:

* Administration Bldg		* Whipple Hall	
Occupied DMR	34,829	DMR	19,000
ETC	25,000	unoccupied	3,000
DPW	5,000	* Girls	
Learn	3500	DMR	7000
unoccupied	3500	unoccupied	21,000
* Grouten Bldg		* Rainbow House	
storage DPW	7500	DMR	2400
* Durant Bldg			
DMR	27,000		
unoccupied	31,000		

Rev: 10/2002

Department of Public Works						
	Property					**Sq. Ft.**
240	**Oral School Rd, Mystic**					
	Agency/Tenant:					
	Dept.of Mental Retardation					42,549
	Anteon (New Tenant-11/02) /ETC Eng. Co.					29,050
	Bell Atlantic					351
	Sprint					135
	Pratt Recreational Building (gymnasium, pool, etc.)					40,000
	Mech.Equip Rms, Garages, Storage					1,996
	Sewage Pump House					296
	Vacant Spa	Crouter	7,588			114,377
		Administration	41,308			
		Girls Bldg.	27,711			
		Durant	42,222			
			118,829			
					Total	233,206


PRATT BLDG
GYM
POOL
AUDITORIUM
KITCHEN
+
DINING
MAIN BLDG
OFFICES
CLASSROOMS
DORM
LIBRARY
LANGUAGE
IMPAIRED
DEPT.
SUPERINTENDENT'S
HOUSE
DURANT BLDG
CHILD STUDY
CLASSROOMS
DORM
PARKING
PARKING
Pond
ORAL SCHOOL ROAD
TO
COW
HILL
ROAD
CROUTER BLDG
GYM
SHOP
WHIPPLE HALL
CLASSROOMS
DORM
ORAL SCHOOL ROAD
PARKING
TO
RT. 184,
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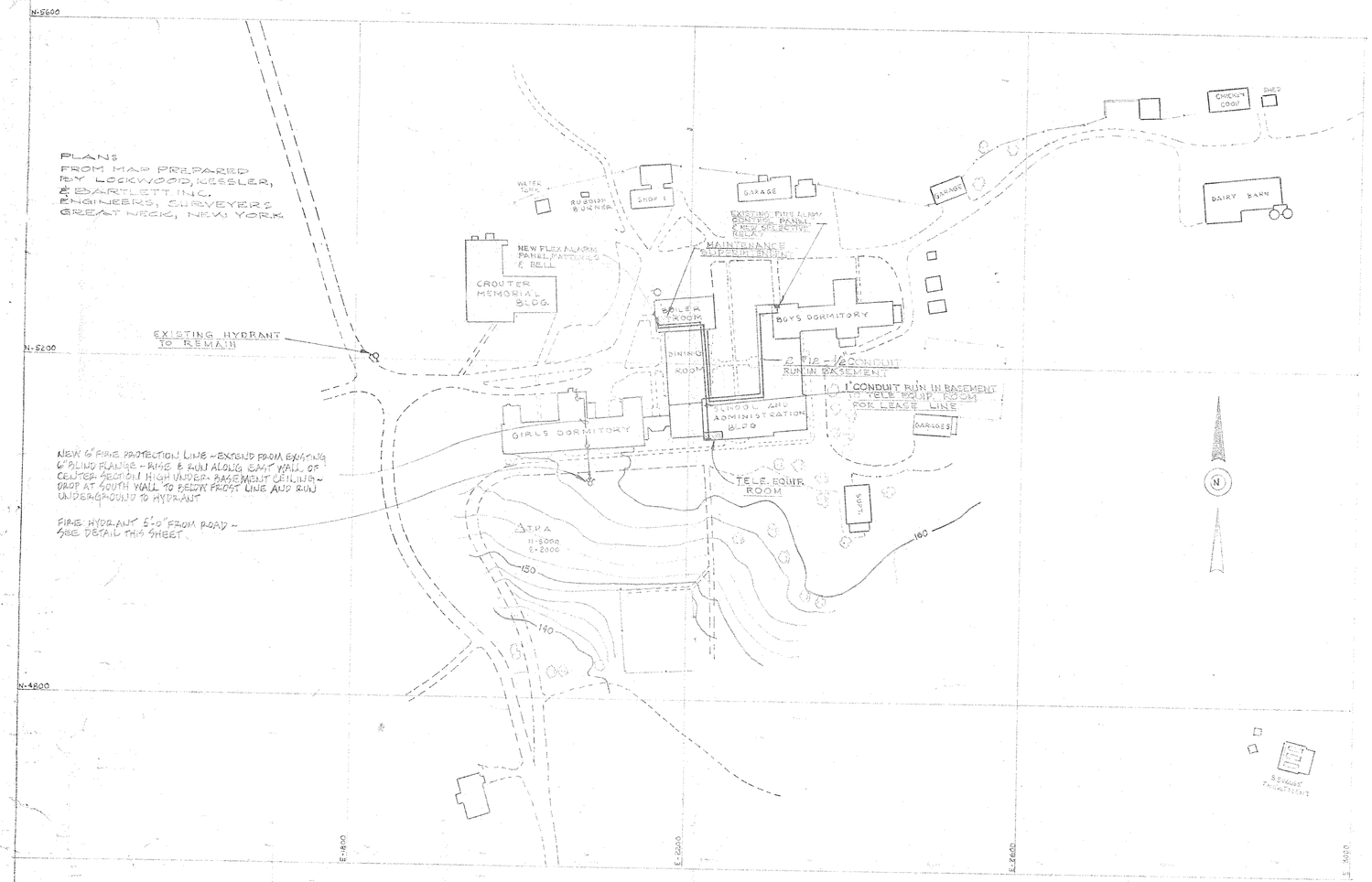
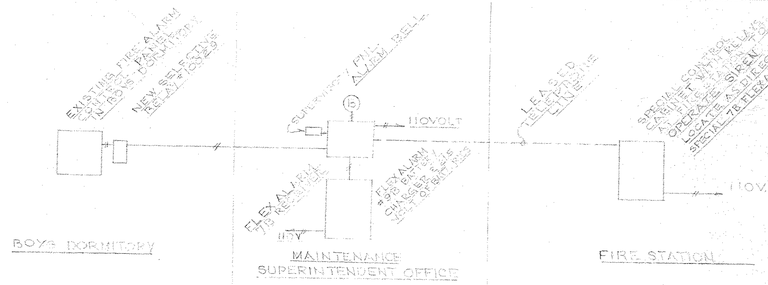
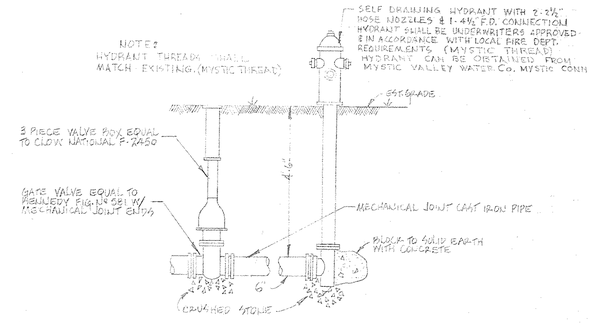


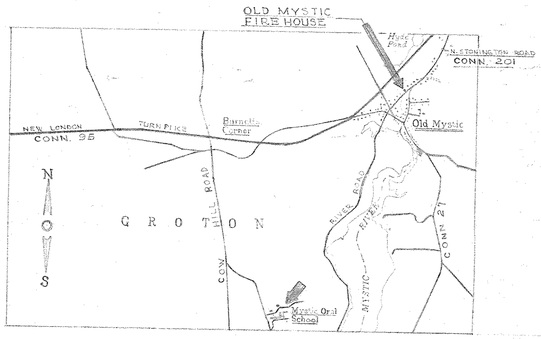
SITE PLAN
SCALE 1" = 80'-0"



FIRE ALARM RISER DIAGRAM
(DO NOT SCALE)



FIRE HYDRANT DETAIL
NO SCALE



LOCATION PLAN
SCALE 1" = 2000'-0"

AS BUILT 8-16-65 PFC

AGENCY APPROVAL SIGNATURE DATE

F.W.D. APPROVAL SIGNATURE DATE 9/25/64

PUBLIC WORKS DEPARTMENT		
REVIEWED BY		DATE
Architectural		
Sanitary		
Mechanical	NB Greene	9-18-64
Electrical	M R Case	9/24/64
Civil		

STATE OF CONNECTICUT
PUBLIC WORKS DEPARTMENT
T. J. MURPHY, JR., COMMISSIONER

DRAWN BY G.N.S. D.C.	FIRE ALARM AND WATER MAIN EXTENSION MYSTIC ORAL SCHOOL MYSTIC, CONNECTICUT	PROJECT No. GF-R-[illegible]
APPROVED BY P.F.C.		DRAWING No. ME
SCALE AS NOTED		DATE REV. 9-[illegible]

PLANS PREPARED BY
J. P. LESHOE ASSOCIATES ENGINEERS

1 - Map

TOPOGRAPHIC MAP
MYSTIC EDUCATION CENTER
ORAL SCHOOL ROAD
GROTON, CONNECTICUT

DeCARLO & DOLL, INC. HAMDEN & HEBRON CONNECTICUT ARCHITECTS ENGINEERS SURVEYORS PLANNERS CONSTRUCTION MANAGERS		DATE: SEPT. 1994 SCALE: 1"=40' JOB NO. 51067.01 CADD NO. TP106702 FILE NO. E-385 SHEET NO. 2 OF 6
DESIGNED BY: MLF	CHECKED BY:	FIELD BOOK NO. 269-1
DRAWN BY: MLF	APPROVED BY:	SEARCH NO. N/A

NOTE:
1. ELEVATIONS ARE BASED UPON N.G.V.D. VERTICAL DATUM OF 1929. PHOTOGRAMETRY BY GEOMAPS, INTERNATIONAL, FROM AERIAL PHOTOGRAPHS DATED 4/21/94.

SHEET INDEX

3	5	6
1	2	4

TOPOGRAPHIC MAP
MYSTIC EDUCATION CENTER
ORAL SCHOOL ROAD
GROTON, CONNECTICUT

DeCARLO & DOLL, INC.
HAMDEN & HEBRON
CONNECTICUT
ARCHITECTS ENGINEERS SURVEYORS
PLANNERS CONSTRUCTION MANAGERS

DESIGNED BY:	MLP	CHECKED BY:	FIELD BOOK NO. 269-1
DRAWN BY:	MLP	APPROVED BY:	SEARCH NO. N/A

DATE:	SEPT. 1994
SCALE:	1" = 40'
JOB NO.	51067.01
CADD NO.	TP10670.4
FILE NO.	E-385
SHEET NO.	4 OF 6

NOTE:
1. ELEVATIONS ARE BASED UPON N.G.V.D. VERTICAL DATUM OF 1929. PHOTOGRAMETRY BY GEOMAPS, INTERNATIONAL, FROM AERIAL PHOTOGRAPHS DATED 4/21/94.

State of Florida,
Palm Beach County, s.s. West Palm Beach, December 28th A.D. 1920.
Personally Appeared, Edward E. Spicer and Sarah A. Spicer signers and sealers of the foregoing instrument and acknowledged the same to be their free act and deed, before me,
(SEAL) L. R. Baker- - - - - - - - - - - Notary Public.
My commission expires Aug. 14, 1921.

STATE OF FLORIDA
COUNTY OF PALM BEACH ss.
I, GEO. O. BUTLER, Clerk of the County of Palm Beach, and also Clerk of the Circuit Court for the said County, the same being a Court of Record, DO HEREBY CERTIFY, That L. R. Baker whose name is subscribed to the deposition or certificate of the proof or acknowledgment of the annexed instrument and thereon written, was, at the time of taking such deposition or proof and acknowledgment a Notary Public, acting in and for the said County, duly commissioned and sworn, and authorized by the laws of said State to take depositions and also acknowledgments and proofs of Deeds, or conveyances for land, tenements or hereditaments in said State of Florida. That there is on file in the Clerk's office of the County of Palm Beach a certified copy of his appointment and qualifications as Notary Public of the County of Palm Beach, and further, That I am well acquainted with the hand-writing of such Notary Public, and verily believe that the signature to said deposition, or certificate of proof or acknowledgment is genuine.
In Testimony Whereof, I have hereunto set my hand and affixed the seal of the said Court and County, this 28th day of December 1920.
(SEAL) Geo. O. Butler- - - - - - - - - Clerk.
By Fred E. Fenno- - - - - - - - Deputy.

An instrument purporting to release and discharge this Mortgage is recorded in Book No. 72 page 571 Wanda J. Fitch Asst Town Clerk

Rec'd for Record Jan. 7, 1921,
at 8 A.M.
Attest:. Henry L. Baily . . . . Town Clerk.

(RELEASE OF TAX LIEN)

This is to Certify, That the Tax Lien on the Property of Kariska S. Gates situated in the Town of Groton, on the Levy of 1917 is Hereby Released.
Dated at Groton, Conn., this 5th day of January 1921.
Irving H. Poppe- - - - - Tax Collector.

Rec'd for Record Jan. 6, 1921,
at 8 A.M.
Attest:. Henry L. Baily . . Town Clerk.

(RELEASE OF TAX LIEN)

This is to Certify, That the Tax Lien on the Property of Charles L. Kinney Estate c/o Chas. B. Allen situated in the Town of Groton, on the Levy of 1913 is hereby Released.
Dated at Groton, Conn., this 31st day of December 1920.
Irving H. Poppe- - - - - Tax Collector.

Rec'd for Record Jan. 6, 1921,
at 8 A.M.
Attest:. Henry L. Baily . . . Town Clerk.

(WARRANTY DEED)

TO ALL PEOPLE TO WHOM THESE PRESENTS SHALL COME, GREETING; KNOW YE, That The Mystic Oral School For The Deaf, a legal corporation organized and existing under the laws of the State of Connecticut and located at Mystic in the Town of Groton, County of New London, State of Connecticut, acting herein by C. H. Latham, its Secretary and Treasurer duly authorized by meeting of the stockholders dated December 20th, 1920 for the consideration of twenty thousand (20,000) dollars received to its full satisfaction of the State of Connecticut, do give, grant, bargain, sell and confirm unto the said the State of Connecticut, four certain tracts of land with the buildings thereon standing situated in the village of Mystic in the said Town of Groton and bounded and described as follows:

FIRST TRACT On the north by lands now or late of the heirs of Hannah Bostwick; on the east and south by lands now or late of Clark P. Brown; on the west by land now or late of Charles L. Kinney, containing about twenty (20) acres of land being the same more or less (said property being known as the Mystic Oral School property formerly the Whipple Home School property)---together with all and singularly the tenements, hereditaments, and appurtenances thereonto belonging or in any way appertaining, and the reversions, remainders, rents, issues, and profits thereof. Said tract of land being conveyed to the Mystic Oral School for the Deaf Corporation by Clara M. Hammond McGuigan of Philadelphia, Pa. by quit-claim deed dated May 4th, 1899 and recorded in Book 40, Page 547 of the Groton Land Records.

SECOND TRACT Beginning at the northwesterly corner of the premises at land of Laura Pickering and thence running easterly and southerly by the line of a private way leading past the Mystic Oral School for the Deaf Corporation to land of Elizabeth Williams; thence westerly, northerly, and southerly by land of said Elizabeth Williams to land of said Laura Pickering; thence westerly by said Pickering land to the southwesterly corner of these described premises; thence northerly by said Laura Pickering land to said private way at the place of beginning containing seven (7) acres more or less. Conveyed to Mystic Oral School by Charles L. Kinney, Warranty deed dated September 4th, 1909, recorded in Book 55, Page 655 of of the Groton Land Records.

THIRD TRACT Beginning at the northeast corner of lands conveyed to Lucien O. Allen by Alice H. Damon by deed dated April 24th, 1904 at a drill mark (T) on the bottom stone of a wall on the west line of lands lately owned by Charles D. Williams and running thence north 16° 47' east with said wall 558 7/10 feet; thence north 15° 50' east with said wall 273 feet; thence north 15° 27' east with said wall 130 feet; thence north 14° 27' east with said wall 236 feet to lands now or lately owned by Nathan Holloway; thence north 76° 51' west with the wall and said Holloway's lands 225 3/10 feet; thence north 45° 42' west with the wall 90 85/100 feet; thence north 26° 41' west with the wall 84 25/100 feet; thence north 7° 3' west 78 3/10 feet to land now or lately owned by Alfred Bostwick; thence north 76° 7' west with the wall and said Bostwick land 329 feet to land now or lately owned by the Mystic Oral School for the Deaf; thence south no degrees 26' west with said Oral School Land 1134 5/10 feet to the southeast corner of said Oral School land; thence north 84° 6' west bounded north by said Oral School land 356 15/100 feet to a wall running southerly; thence south 2° 1' west with said wall 400 75/100 feet to a mere-stone and being a corner of the said land conveyed to said Lucian O. Allen by the party of the first part; thence north 89° 55' east 242 6/10 feet to a drill mark (T) on bottom stone of an old farm wall; thence continuing the same course and with the wall 265 feet to another drill mark; thence continuing the same course to the drill mark (T) on the bottom stone of the wall on the westerly line of the said Charles D. Williams land being the place of beginning containing 18 95/100 acres more or less, together with a right of way to the above described lands across the said lands heretofore conveyed by said Alice H. Damon to said Lucian O. Allen by deeds dated April 21, 1904 from a private road or way through the bar way a short distance north of the northwest corner of the (north field) and a short distance south of the mere-stone mentioned in the foregoing description at or near the old roadway across said Allen's land being the same right of way reserved by said Alice H. Damon in said deeds to said Lucian O. Allen and together with the rights reserved by said Alice H. Damon hereto and in favor of the owner of the herein described premises which rights are set forth in said Lucian O. Allen's deed wherein and whereby the particular location and width of said reserved way is to be adjusted and agreed upon by the owner of the premises hereby conveyed and by the owner of the premises conveyed by said Deed to said Allen. Said tract being conveyed to the Mystic Oral School for the Deaf by Alice H. Damon by Warranty deed dated December 9th, 1909 and recorded in Book 51, Page 531 of the Groton Land Records.

FOURTH TRACT Beginning at the southwest corner of the premises adjoining lane or private way running easterly by north side of said lane; thence northerly by land of Clara Hammond; thence westerly by lands of John and Andrew Mason; thence southerly by said Mason's land to the place of beginning containing about one (1) acre of land. Said tract of land being obtained by said Mystic Oral School for the Deaf Corporation from Mary C. Wilcox by warranty deed dated October 27th, 1917 and recorded in Book 55, Page 655 of the Groton Land Records.

TO HAVE AND TO HOLD the above granted and bargained premises with the appurtenances thereof, unto it the said grantee, its successors and assigns forever, to its and their own proper use and behoof. And also it the said grantor does for itself, its successors and assigns covenant with the said grantee, its successors and assigns, that at and until the ensealing of these presents, it is well seized of the premises, as a good indefeasible estate in fee simple, and have good right to bargain and sell the same in manner and form as is above written; and that the same is free from all incumbrances whatsoever.

AND FURTHERMORE, it the said grator does by these presents bind itself and its successors and assigns forever to warrant and defend the above granted and bargained premises to it the said grantee, its successors and assigns, against all claims and demands whatsoever.

IN WITNESS WHEREOF, it has hereunto set its hand and seal this 4th day of January A.D. 1921.

Signed, sealed and delivered
in the presence of
Mary McNamara
M. R. Davis

The Mystic Oral School for the Deaf Corpl
By C. H. Latham (L.S.)
Its Secretary & Treasurer.

STATE OF CONNECTICUT
COUNTY OF NEW LONDON ss. New London January 4th 1921.

Personally appeared the Mystic Oral School for the Deaf acting herein by C. H. Latham, its Secretary and Treasurer duly authorized, signer and sealer of the foregoing instrument and acknowledged the same to be its free act and deed, before me,

(SEAL) Marion R. Davis- - - - - - -Notary Public.

I.R. Stamps $19.50
Cancelled.

Rec'd for Record Jan. 7, 1921,
at 2 P.M.

Attest:. Henry L. Bailey . . . , Town Clerk.

(QUIT-CLAIM DEED)

KNOW ALL MEN BY THESE PRESENTS That I, Clara Hammond McGuigan of 6018 Drexel Road, Philadelphia, Pennsylvania for the consideration of one dollar and other good and valuable considerations received to my full satisfaction of the State of Connecticut do by these presents remise, release, and forever quit-claim unto the said the State of Connecticut all right, title, interest, claim and demand whatever which I the said releaser have or ought to have in or to four certain tracts of land with the buildings thereon standing situated in the village of Mystic in the Town of Groton and bounded and described as follows:

FIRST TRACT On the north by lands now or late of the heirs of Hannah Bostwick; on the east and south by lands now or late of Clark B. Brown; on the west by land now or late of Charles L. Kinney, containing about twenty (20) acres of land being the same more or less (said property being known as the Mystic Oral School property formerly the Whipple Home School property)---together with all and singularly the tenements, hereditaments, and appurtenances thereonto belonging or in any way appertaining, and the reversions, remainders, rents, issues, and profits thereof, said tract of land being conveyed to the Mystic Oral School for the Deaf Corporation by Clara M. Hammond McGuigan of Philadelphia, Pa. by quit-claim deed dated May 4th, 1899 and recorded in Book 40, Page 547 of the Groton Land Records.

SECOND TRACT Beginning at the northwesterly corner of the premises at land of Laura Pickering and thence running easterly and southerly by the line of a private way leading past the Mystic Oral School for the Deaf Corporation to land of Elizabeth Williams; thence westerly, northerly, and southerly by land of said Elizabeth Williams to land of said Laura Pickering; thence westerly by said Pickering land to the southwesterly corner of these described premises; thence northerly by said Laura Pickering land to said private way at the place of beginning containing seven (7) acres more or less, conveyed to Mystic Oral School by Charles L. Kinney, warranty deed dated September 4th, 1909, recorded in Book 55, Page 655 of the Groton Land Records.

THIRD TRACT Beginning at the northeast corner of lands conveyed to Lucian O. Allen by Alice H. Damon by deed dated April 24th, 1904 at a drill mark (T) on the bottom stone of a wall on the west line of lands lately owned by Charles D. Williams and running thence north 16° 47'east with said wall 558 7/10 feet; thence north 15° 50' east with said wall 273 feet; thence north 15° 27' east with said wall 130 feet; thence north 14° 27' east with said wall 236 feet to lands now or lately owned by Nathan Holloway; thence north 76° 51' west with the wall and said Holloway's lands 225 3/10 feet; thence north 45° 42' west with the wall 90 85/100 feet; thence north 26° 41' west with the wall 84 25/100 feet; thence north 7° 3' west 78 3/10 feet to land now or lately owned by Alfred Bostwick; thence north 76° 7' west with the wall and said Bostwick land 329 feet to land now or lately owned by the Mystic Oral School for the Deaf; thence south no degrees 26' west with said Oral School land 1134 5/10 feet to the southeast corner of said Oral School land; thence north 84° 6' west bounded north by said Oral School land 356 15/100 feet to a wall running southerly; thence south 2° 1' west with said wall 400 75/100 feet to a merestone and being a corner of the said land conveyed to said Lucian O. Allen by the party of the first part; thence north 89° 55' east 242 6/10 feet to a drill mark (T) on bottom stone of an old farm wall; thence continuing the same course and with the wall 265 feet to another drill mark; thence continuing the same course to the drill mark (T) on the bottom stone of the wall on the westerly line of the said Charles D. Williams land being the place of beginning containing 18 95/100 acres more or less, together with a right of way to the above described lands across the said lands heretofore conveyed by said Alice H. Damon to said Lucian O. Allen by deeds dated April 21, 1904 from a private road or way through the bar way a short distance north of the northwest corner of the (north field) and

a short distance south of the meresstone mentioned in the foregoing description at or near the old roadway across said Allen's land being the same right of way reserved by said Alice H. Damon in said deeds to said Lucian O. Allen and together with the rights reserved by said Alice H. Damon hereto and in favor of the owner of the herein described premises which rights are set forth in said Lucian O. Allen's deed wherein and whereby the particular location and width of said reserved way is to be adjusted and agreed upon by the owner of the premises hereby conveyed and by the owner of the premises conveyed by said deed to said Allen. Said tract being conveyed to the Mystic Oral School for the Deaf by Alice H. Damon by warranty deed dated December 9th, 1909 and recorded in Book 51, Page 531 of the Groton Land Records.

FOURTH TRACT Beginning at the southwest corner of the premises adjoining lane or private way running easterly by north side of said lane; thence northerly by land of Clara Hammond; thence westerly by lands of John and Andrew Mason; thence southerly by said Mason's land to the place of beginning containing about one acre of land. Said tract of land being obtained by said Mystic Oral School for the Deaf Corporation from Mary C. Wilcox by warranty deed dated October 27th, 1917 and recorded in Book 55, Page 655 of the Groton Land Records.

TO HAVE AND TO HOLD the premises, with all the appurtenances, unto the said releasee its heirs and assigns forever, so that neither I the said releasor nor my heirs, nor any person under me or them, shall hereafter have any claim, right or title in or to the premises, or any part thereof, but therefrom and they are by these presents forever barred and secluded.

IN WITNESS WHEREOF I have hereunto set my hand and seal this 4th day of January, A.D. 1921.

Signed, sealed and delivered
in presence of
Mary . McNamara
M. R. Davis Clara M. H. McGuigan (L.S.)

STATE OF CONNECTICUT
COUNTY OF NEW LONDON ss. New London, January 4th, A.D. 1921.

Personally appeared Clara Hammond McGuigan, signer and sealer of the foregoing instrument, and acknowledged the same to be her free act and deed, before me,
(SEAL) Marion R. Davis- - - - - - - Notary Public.

Rec'd for Record Jan. 7, 1921,
at 2 P.M.

Attest:. Mary L. Kaelly . . . Town Clerk.

(QUIT-CLAIM DEED)

KNOW ALL MEN BY THESE PRESENTS That I, John J. McGuigan of 6018 Drexel Road, Philadelphia, Pennsylvania for the consideration of one dollar and other good and valuable considerations received to my full satisfaction of the State of Connecticut do by these presents remise, release, and forever quit-claim unto the said the State of Connecticut all right, title, interest, claim and demand whatever which I the said releasor have or ought to have in or to four (4) certain tracts of land with the buildings thereon standing situated in the village of Mystic in the Town of Groton and bounded and described as follows:

FIRST TRACT On the north by lands now or late of the heirs of Hannah Bostwick; on the east and south by lands now or late of Clark P. Brown; on the west by land now or late of Charles L. Kinney, containing about twenty (20) acres of land being the same more or less (said property being known as the Mystic Oral School property formerly the Whipple Home School property)---together with all and singularly the tenaments, hereditaments, and appurtenances thereonto belonging or in any way appertaining, and the reversions, remainders, rents, issues, and profits thereof, said tract of land being conveyed to the Mystic Oral School for the Deaf Corporation by Clara M. Hammond McGuigan of Philadelphia, Pa. by quit-claim deed dated May 4th, 1899 and recorded in Book 40, Page 547 of the Groton Land Records.

SECOND TRACT Beginning at the northwesterly corner of the premises at land of Laura Pickering and thence running easterly and southerly by the line of a private way leading past the Mystic Oral School for the Deaf Corporation to land of Elizabeth Williams; thence westerly, northerly, and southerly by land of said Elizabeth Williams to land of said Laura Pickering; thence westerly by said Pickering land to the southwesterly corner of these described premises; thence northerly by said Laura Pickering land to said private way at the place of beginning containing seven (7) acres more or less, conveyed to Mystic Oral School by Charles L. Kinney warranty deed dated September 4th, 1909, recorded in Book 55, Page 655 of the Groton Land Records.

THIRD TRACT Beginning at the northeast corner of lands conveyed to Lucian O. Allen by Alice H. Damon by deed dated April 24th, 1904 at a drill mark (T) on the bottom stone of a wall on the west line of lands lately owned by Charles D. Williams and running thence north 16° 47' east with said wall 558 7/10 feet; thence north 15° 50' east with said wall 273 feet; thence north 15° 27' east with said wall 130 feet;

thence north 14° 27' east with said wall 236 feet to lands now or lately owned by Nathan Holloway; thence north 76° 51' west with the wall and said Holloway's lands 225 3/10 feet; thence north 45° 42' west with the wall 90 85/100 feet; thence north 26° 41' west with the wall 84 25/100 feet; thence north 7° 3' west 78 3/10 feet to land now or lately owned by Alfred Bostwick; thence north 76° 7' west with the wall and said Bostwick land 329 feet to land now or lately owned by the Mystic Oral School for the Deaf; then ce south no degrees 26' west with said Oral School land 1134 5/10 feet to the southeast corner of said Oral School land; thence north 84° 6' west bounded north by said Oral School land 356 15/100 feet to a wall running southerly; thence south 2° 1' west with said wall 400 75/100 feet to a merestone and being a corner of the said land conveyed to said Lucian O. Allen by the party of the first part; thence north 89° 55' east 242 6/10 feet to a drill mark (T) on bottom stone of an old farm wall; thence continuing the same course and with the wall 265 feet to another drill mark; thence continuing the same course to the drill mark (T) onethe bottom stone of the wall on the westerly line of the said Charles D. Williams land being the place of beginning containing 18 95/100 acres more or less, together with a right of way to the above described lands across the said lands heretofore conveyed by said Alice H. Damon to said Lucian O. Allen by deeds dated April 21, 1904 from a private road or way through the bar way a short distance north of the northwest corner of the (north field) and a short distance south of the merestone mentioned in the foregoing description at or near the old roadway across said Allen's land being the same right of way reserved by said Alice H. Damon in said deeds to said Lucian O. Allen and together with the rights reserved by said Alice H. Damon hereto and in favor of the owner of the herein described premises which rights are set forth in said Lucian O. Allen's deed wherein and whereby the particular location and width of said reserved way is to be adjusted and agreed upon by the owner of the premises hereby conveyed and by the owner of the premises conveyed by said deed to said Allen. Said tract being conveyed to the Mystic Oral School for the Deaf by Alice H. Damon by warranty deed dated December 9th, 1909 and recorded in Book 51, Page 531 of the Groton Land Records.

FOURTH TRACT Beginning at the southwest corner of the premises adjoining lane or private way running easterly by north side of said lane; thence northerly by land of Clara Hammond; thence westerly by lands of John and Andrew Mason; thence southerly by said Mason's land to the place of beginning containing about one (1) acre of land. Said tract of land being obtained by said Mystic Oral School for the Deaf Corporation from Mary C. Wilcox by warranty deed dated October 27th, 1917 and recorded in Book 55, Page 655 of the Groton Land Records.

TO HAVE AND TO HOLD the premises, with all the appurtenances, unto the said releasee its heirs and assigns forever, so that neither I the said releasor nor my heirs, nor any person under me or them, shall hereafter have any claim, right or title in or to the premises, or any part thereof but therefrom and they are by these presents forever barred and secluded.

IN WITNESS WHEREOF I have hereunto set my hand and seal this 4th day of January, A.D. 1921.

Signed, sealed and delivered
in presence of
Mary McNamara
M. R. Davis

John I. McGuigan, M.D. (L.S.)

STATE OF CONNECTICUT,
COUNTY OF NEW LONDON ss. New London, January 4th, 1921.

Personally appeared John J. McGuigan, signer and sealer of the foregoing instrument, and acknowledged the same to be his free act and deed, before me,

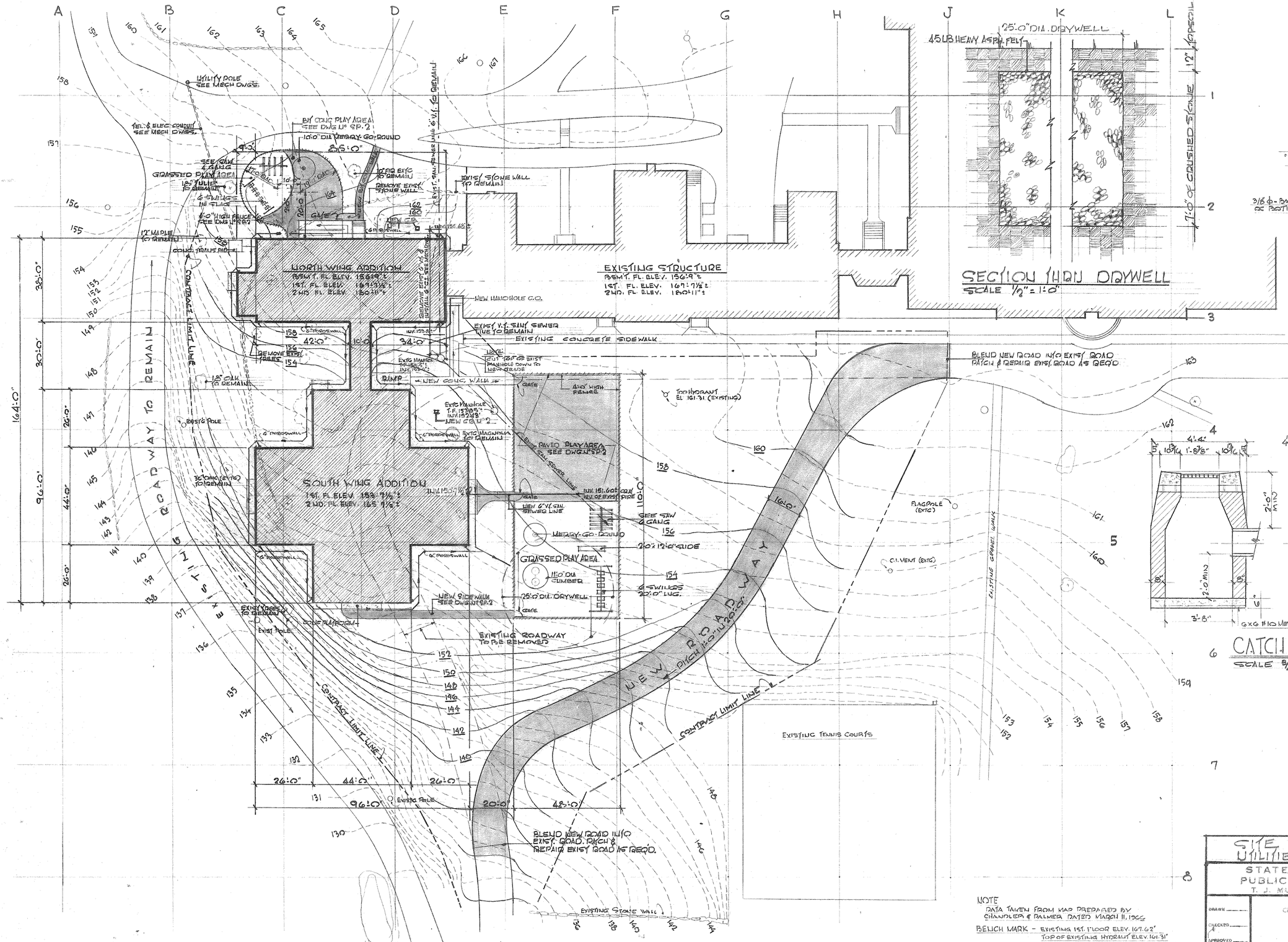
(SEAL) Marion R. Davis- - - - - - - - - Notary Public.

Rec'd for Record Jan. 7, 1921,
at 2 P.M.

Attest: . . Henry L. Bailey . . . . Town Clerk.

(WARRANTY DEED)

KNOW ALL MEN BY THESE PRESENTS: THAT The Groton Long Point Land Company, Incorporated under the laws of the State of Connecticut and having its principal office in the City of New London, by Benjamin A. Armstrong President, and Loren E. Daboll Secretary, duly authorized to act in this behalf, for and in consideration of One dollar and other considerations received to our full satisfaction of Emma E. Wunder of the City and County of Hartford and State of Connecticut do give, grant, bargain, sell and confirm unto the said Emma E. Wunder certain tract or parcel of land located at Groton Long Point, in the Town of Groton, being Lot No. 499 Beach Road Plan 5 of the Groton Long Point Farm, as the same is laid out into building lots and plans filed for reference with the Town Clerk of the Town of Groton. Said lot is more particularly described as follows, viz:-- Situated at the Southwesterly corner of Beach Road and Sound Breeze Avenue, bounded northerly by Beach Road 60 feet Easterly by Sound Breeze Avenue 100 feet more or less Southerly by other lands of the Grantor and Westerly by Lot #408 sold to Roscoe Miner 100 feet.



NOTE
DATA TAKEN FROM MAP PREPARED BY CHANDLER & PALMER DATED MARCH 11, 1966
BENCH MARK – EXISTING 1ST. FLOOR ELEV. 167.62'
TOP OF EXISTING HYDRANT ELEV. 161.31'

SITE CONSTRUCTION & UTILITIES PLAN – DETAILS.

STATE OF CONNECTICUT
PUBLIC WORKS DEPARTMENT
T. J. MURPHY, JR., COMMISSIONER

DRAWN
CHECKED
APPROVED

CLASSROOM-DORMITORY BUILDING
MYSTIC ORAL SCHOOL
MYSTIC, CONNECTICUT
PROJECT BI.R-309

PROJECT NO. BI.R-309
DRAWING NO. SP-1

PLANS PREPARED BY
HOLLIS W. KINCAID & ASSOCIATES
ARCHITECTS
526 FARMINGTON AVENUE
HARTFORD 5, CONNECTICUT

SCALE AS NOTED
DATE MARCH 14, 1967

ENSR

July 26, 1993

ENSR Operations
1700 Gateway Boulevard S.E.
Canton, Ohio 44707
216-452-0837

Mr. Gerald Thompson
Ducci Electrical Contractors
427 Goshen Rd.
Torrington, Ct. 06790

RE: RECLASSIFICATION RESULTS (<50 Guarantee)
Reference # 600038 (Warranty)

Dear Mr. Thompson:

Based on the sample received, ENSR's laboratory result for your electrical equipment serviced by ENSR Operation's was:

Serial#	Gals	Initial PPM	90-Day PPM	Cert #
226922	107	58	4	26983

You may proceed with reclassification if, prior to sampling, the unit operated for three months or more of in-service use as defined by the applicable Federal EPA Regulation, (Fed. Reg.-47 FR37358, August, 1982, 40 CFR 761.30(a)(2)(v).

This completes this project. Thank you for using ENSR for your PCB remediation work.

If you have any questions, please feel free to call our office.

Sincerely,

Larry Fox
PCBX Senior Project Manager
216-430-4570

RECEIVED
JUL 28 1993
Ducci Electrical Contractors, Inc.

cc: Recertification Manual
Compliance Dept.
Operations Dept.
Regional Sales

APPENDIX I

Résumé of the Environmental Professional

Loureiro
Engineering • Construction • EH&S • Energy • Waste

DAVID N. SCOTTI, P.G.
Project Manager

Education

Bachelor of Science, Geology
Allegheny College, 1984

Professional Licenses/Registrations

Professional Geologist:
Indiana, #1341
Pennsylvania, #479G

Professional Affiliations

National Groundwater Association

Environmental Professionals' Organization of Connecticut, Inc.

Key Practice Areas

Site investigation/remediation; Remedial planning; Brownfields redevelopment; CERCLA; RCRA Subtitle I

Summary Biography

Mr. Scotti provides expertise in remedial investigation, feasibility study, remedial design, and remedial action projects. With over 20 years of experience in characterizing subsurface geology and hydrogeology in association with environmental, geotechnical, and engineering evaluations, Mr. Scotti has demonstrated experience in conducting a wide variety of projects within UST, RCRA, and CERCLA regulatory programs. He has also conducted numerous remedial investigations within Brownfields and state voluntary cleanup programs.

Since joining Loureiro Engineering Associates, Inc. in 2001, Mr. Scotti has provided hazardous waste site investigation and cleanup services to commercial, industrial, and government clients. His site investigation and cleanup services include the preparation and implementation of remedial investigation/feasibility study work plans, the preparation of hydrogeologic reports and technical memoranda, evaluations of feasibility study pilot test data as well as analyses of remedial alternatives for short-term and long-term resolution, and the design of conceptual remedies and detailed remedial action plans. Mr. Scotti draws upon his extensive field experience, his strong knowledge of geology, hydrogeology, and the scientific method, and his detailed knowledge of regulations and standard technical practices to negotiate innovative remedial strategies that result in documented savings to his clients.

Mr. Scotti's RCRA experience includes the design and implementation of groundwater and landfill gas monitoring plans for solid waste management facilities. These plans incorporated sensible, cost-effective approaches that were scientifically defensible and compliant with RCRA Subtitle D. Often, the implementation of these plans resulted in significant cost savings to clients.

Mr. Scotti's experience also includes environmental investigations and corrective actions performed as a State Regulator.

Specific Project Experience:

Brownfields Development Projects

Phase I Environmental Site Assessment, Municipal, Connecticut

Project Manager for a Phase I Environmental Site Assessment (ESA) of a four-acre, former textile mill site that was funded through an EPA Brownfields Assessment Grant. Industrial operations conducted at this property date back to the mid-1800s. As a result of this assessment, 12 Areas of Concern (AOCs), including underground storage tanks (USTs) and material staging areas were identified at the site. The findings of this assessment were provided in a report, which included a Conceptual Site Model (CSM) to explain how constituents of concern may come to be located at the property. Recommendations for additional ESA activities were provided with the report.

Phase I Environmental Site Assessment, Municipal, Connecticut

Project Manager for a Phase I ESA of a one-acre parcel containing former lumber and coal storage sheds, garages, and coal silos. This ESA was funded through an EPA Brownfields Assessment Grant. Former buildings and structures that burned, decayed, or were demolished originally supported the use of the property as a coal and fuel oil yard and, in later years, a service station equipment repair and resale operation. Five AOCs, including USTs and above-ground storage tanks (ASTs) were identified at the property. The findings of this assessment were provided in a report, which included a CSM to explain how constituents of concern may come to be located at the property. Recommendations for additional ESA activities were provided with the report.

Phase I Environmental Site Assessment, Municipal, Connecticut

Project Manager for a Phase I ESA of a four-acre parcel formerly used to design and manufacture miniature and micro-miniature, high-performance, hermetically-sealed electromechanical relays, timing and sensing devices, and thick film circuits for the aerospace and defense industries. This ESA was funded through an EPA Brownfields Assessment Grant. In assessing the "business environmental risk" associated with this site, the property was found to satisfy the definition of an "Establishment." More than 20 AOCs, including those within areas formerly used for electroplating operations, wastewater treatment, and hazardous waste storage were identified. Recommendations provided with the Phase I ESA Report included those to address potentially hazardous conditions and regulatory issues posed by a number of 55-gallon drums and other vessels containing unknown chemicals present at the property. Following meetings with a potential developer, a streamlined Phase II ESA was proposed to identify impacts to the site to allow for the development of costs to remediate the property.

Remediation, Industrial, Connecticut

Senior Project Geologist for the remediation of a former industrial site that was redeveloped for commercial, retail use. Prepared a Phase IV Site Remediation Report for the remediation and redevelopment of the property. Soil and groundwater at the site were contaminated with VOCs, SVOCs, TPH, and metals. The remediation activities included the placement of contaminated soil and the construction of a soil vapor extraction system within the area of an engineered control. Remediation and redevelopment of the site were completed in accordance with the Property Transfer Act of the Connecticut General Statutes and the Licensed Environmental Professional (LEP) verification program.

Feasibility Study, Industrial, Virginia

Senior Project Geologist for a feasibility study (FS) involving the analysis of regulatory program alternatives that enabled a state regulatory agency to approve the disturbance of a former solid waste landfill that was closed prior to the enactment of existing state regulations. The analysis generated a state-approved plan under the voluntary cleanup program that involved the excavation and screening of waste to reclaim recyclable materials. The plan

was implemented at the feasibility study-level only.

Site Investigation, Industrial, Pennsylvania

Senior Project Geologist for preliminary site investigations completed within the Voluntary Cleanup Program at a former chromium pigment manufacturing facility to support a comprehensive remedial investigation work plan. The investigations included off-site groundwater investigations; wetlands delineation; AST removal activities; wastewater treatment plant (WWTP) closure; NPDES permit termination; and plant decommissioning activities.

Phase I/II/III Environmental Site Assessments, Commercial/Industrial, Various

Project Manager for numerous Phase I/II/III ESAs, including Site Screening Evaluations, due diligence surveys, and Sensitive Receptor Surveys completed for commercial and industrial clients.

CERCLA/State Superfund Projects

Site Assessment, Municipal, Maryland

Project Manager for a Hazardous Waste Site Screening Evaluation at a former solid waste management facility, in which the toxicity, mobility, and persistence of constituents were evaluated. The results of the evaluation were used to keep the property off of the USEPA list of Superfund sites, and to facilitate the sale of the property.

Remedial Investigation/Feasibility Study/Removal Action, Industrial, Rhode Island

Project Manager For a Superfund site within EPA Region I that includes property formerly occupied by a chemical manufacturing facility and a barrel reclamation facility adjacent to a river and wetlands. Implemented a number of investigations as part of several Removal Actions. The site constituents of concern include volatile organic compounds, semi-volatile organic compounds, polychlorinated biphenyls, metals, and dioxins. As part of the services provided on this project, evaluated a number of remedies that are alternatives to the remedies being evaluated by EPA as part of the Feasibility Study-phase of the project. The evaluation process included an assessment of the technical feasibility, implementability, effectiveness, and potential cost of the alternatives.

Remedial Investigation/Feasibility Study/Remedial Design, Industrial, New Jersey

Senior Project Geologist for a Superfund site within EPA Region II that was formerly occupied by a lead recycling and secondary lead smelting facility. Implemented pre-remedial design investigation activities. These activities included the preparation and implementation of the Remedial Design Work Plan (RDWP), Sampling, Analysis, and Monitoring Plan (SAMP), Quality Assurance Project Plan (QAPP), and site-specific Health and Safety Plan (HASP). Based on the results of the investigation, prepared technical memoranda in support of a ROD amendment to the groundwater remedy. The proposed ROD amendment involved a change in the groundwater remedy from a costly pump and treat system to monitored natural attenuation of groundwater contaminated with metals.

RCRA Subtitle I Hydrocarbon Investigation and Remediation Projects

Site Investigation/Remediation, Industrial, Various

Project Manager for a number of leaking UST sites impacted with petroleum hydrocarbons. Completed initial site investigations through site closure. Remedies were designed to treat soil, vadose zone, and groundwater contaminated with gasoline and diesel fuel hydrocarbons. Remedies included groundwater extraction, total fluids extraction, soil vapor extraction, and free-product recovery systems. Remedies also included natural attenuation programs utilizing sentinel wells and supported by solute transport modeling and risk exposure.