**MEETING**
**Board of Water Works Trustees**
Des Moines Water Works
August 22, 2023
2201 George Flagg Parkway
3:30 p.m.

Join Zoom Meeting
https://us02web.zoom.us/j/85705369616?pwd=c2xaODRMMkdlNzY1cWZ1aDBVdmZWdz09

Meeting ID: 857 0536 9616 Passcode: 327355

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# Decision Agenda

## *I. Consent Agenda:*

A. Minutes, July 25, 2023, Board of Water Works Trustees Meeting
Minutes, August 1, 2023, Finance and Audit Committee Meeting
Minutes, August 8, 2023, Planning Committee Meeting

B. Financial Statements

C. List of Payments for July 2023

D. Summary of CEO-Approved Expenditures in Excess of $20,000

E. Next Meeting Date – September 26, 2023

## *II. Public Comment Period:*

- Jeff Ries
- Regional Governance

## *III. Action Items:*

A. CEO Spending Authority

B. Request Authorization to Reimburse Polk County for 2023 Water Works Park Road Repairs

C. Request Authorization for CEO and General Manager to Execute Agreement for Lead Service Line Replacement Software

D. Request Authorization to Solicit Bids for FDTP Closed Loop Cooling Systems and Establish the Date of Public Hearing as the Date of the September 2023 Board Meeting

E. Request Authorization to Issue Purchase Order for Replacement RO Membranes for Saylorville Water Treatment Plant

F. Des Moines Water Works Grounds Maintenance Facility
   1. Public Hearing
   2. Section 28E. 18 Finding
   3. Adoption of Form of Contract, Plans and Specifications, and Estimated Cost
   4. Analysis of Bids Received
   5. Award of Contract and Authorization to Execute Contract

G. Environmental Review of Saylorville Water Treatment Plant Transmission Improvements
   1. Public Hearing
   2. Discussion

## *IV. Information Items:*

A. Board Committee Reports
   - Finance and Audit Committee
   - Planning Committee
   - Stowe Foundation
   - Greater Des Moines Botanical Garden Board
   - Des Moines Water Works Park Foundation Board

**OSHA Recordable Injuries YTD: 6**

| | |
|---|---|
| Motor Vehicle Injury: | 1 |
| Strain/Sprain: | 5 |

B. CEO and General Manager's Comments

C. Safety Update

D. Contract Status and Professional Services Agreements

## *V. Adjournment*

Schedule of Board Activities – September and October
Time: 3:30 p.m.

| Date | Location | Meeting |
|---|---|---|
| September 5 | Board Room & Virtual | Finance & Audit Committee Meeting |
| September 12 | Board Room & Virtual | Planning Committee Meeting |
| September 26 | Board Room & Virtual | Board of Water Works Trustees |
| | | |
| October 3 | Board Room & Virtual | Finance & Audit Committee Meeting |
| October 10 | Board Room & Virtual | Planning Committee Meeting |
| October 31 | Board Room & Virtual | Board of Water Works Trustees |

Des Moines Water Works
Water You Can Trust for Life

**DES MOINES WATER WORKS**
**Board of Water Works Trustees**

Agenda Item No. __Consent____
Meeting Date: August 22, 2023
Chairperson's Signature ☐Yes ☒ No

# AGENDA ITEM FORM

**SUBJECT: Consent Agenda**

**SUMMARY:**

A. Minutes, July 25, 2023, Board of Water Works Trustees Meeting
**Request:** Approve July 25, 2023, Minutes
Minutes, August 1, 2023, Finance and Audit Committee Meeting
**Request:** Approve August 1, 2023, Minutes
Minutes, August 8, 2023, Planning Committee Meeting
**Request:** Approve August 8, 2023, Minutes

B. Financial Statements
- At July 2023, total assets of the Des Moines Water Works were $490.3 million, liabilities totaled $46.5 million, deferred outflows totaled $11.6 million, deferred inflows totaled $11.1 million and contributions and retained earnings were $444.2 million.
- Total operating revenue for the month of July was $9.8 million. Expenses (operating and non-operating) for the month were approximately $6.1 million, leaving net earnings of approximately $3.7 million.
- **Request:** Receive and File for Audit the July 2023 Financial Statements.

C. List of Payments for July 2023
**Request:** Approve July 2023 payments

D. Summary of CEO-approved expenditures in excess of $20,000
**Request:** Approve the CEO-approved expenditures in excess of $20,000

E. Next Meeting Date – September 26, 2023
**Request:** Approve September 26, 2023, as the date of the next meeting of the Board of Water Works Trustees.

**FISCAL IMPACT:**

No impact to budget.

**RECOMMENDED ACTION:**

Approve Consent Agenda Items A, B, C, D, and E.

**BOARD REQUIRED ACTION:**

Motion to approve Consent Agenda.

| | | |
|---|---|---|
| Michelle Holland. CPA 8/10/23 | Amy Kahler, CPA 8/14/23 | Ted Corrigan, P.E. 8/17/23 |
| Controller (date) | Chief Financial Officer (date) | CEO and General Manager (date) |

Attachments: July 25, 2023, Board of Water Works Trustees Meeting Minutes; August 1, 2023, Finance and Audit Committee Meeting Minutes; August 8, 2023, Planning Committee Meeting Minutes; July 2023 Financial Statements; List of Payments; Summary of CEO-approved expenditures in excess of $20,000

**MINUTES OF CALLED MEETING OF THE BOARD OF WATER WORKS TRUSTEES PURSUANT TO NOTICE**
**Tuesday, July 25, 2023**

Present (or Participating by Video or Audio Conference Link):
Board Members: Chairperson Ms. Andrea Boulton, presiding; Mr. Alec Davis, Mr. Graham Gillette, and Ms. Diane Munns
Staff members: Bill Blubaugh, Caitlin Caldwell, Nathan Casey, Dee Clarke, Ted Corrigan, Kyle Danley, Doug Garnett, Michelle Holland, Amy Kahler, Mike McCurnin, Laura Sarcone, Melissa Walker, Michelle Watson, and Mike Zach
Also in attendance: John Lande (legal counsel)

Ms. Boulton called the meeting to order at 3:30 p.m.

Consent Agenda
A motion was made by Mr. Gillette, seconded by Mr. Davis, to approve Consent Items A, B, C, D, and E (Approval of Minutes, June 27, 2023, Board of Water Works Trustees Meeting; Minutes, July 11, 2023, Finance and Audit Committee Meeting; Receipt and filing of the financial statements for audit purposes; Approval of Payments for June 2023; Approval of Summary of CEO-Approved Expenditures in Excess of $20,000; and Approval of August 22, 2023, as the next meeting of the Board of Water Works Trustees). Upon vote, the motion was adopted, with each member of the Board listed above as present voting in favor of the motion.

Public Comment Period
Regional Governance - Mr. Corrigan provided an update on regionalization.

Request Authorization to Solicit Bids for MWTP Truck Scale Replacement and Establish the Date of Public Hearing as the Date of the September 2023 Board Meeting
Des Moines Water Works (DMWW) commissioned the McMullen Water Treatment Plant (MWTP), which is a conventional lime-softening plant, in May 2000. The lime residuals from the lagoons go to a drying area and then a contractor is utilized to move them off-site and ultimately dispose of them. To help facilitate this, a scale is necessary to weigh the lime trucks and allow the contractor to invoice Des Moines Water Works for payment. The existing MWTP trucking scale needs complete replacement. Urgent repairs were made in 2022 to keep it functional but such efforts were not considered a long-term solution.

DMWW would like to install a new scale which will include procurement and installation of a new scale and scale house, site grading, paving, and site lighting improvements.
Snyder & Associates is preparing plans, specifications, and contract documents for the MWTP Truck Scale Replacement project. The engineer's cost estimate for the MWTP Truck Scale Replacement project is $707,900.

A motion was made by Ms. Munns, and seconded by Mr. Gillette, to solicit bids for the MWTP Truck Scale Replacement project and establish the date of the Public Hearing as the date of the September 2023 Board meeting, and direct staff to publish notice as provided by law. Upon vote,

the motion was adopted, with each member of the Board listed above as present voting in favor of the motion.

City of Des Moines Stormwater Facility Maintenance Easements

A Public Hearing was opened by Chairperson Boulton for comments from the public regarding the granting of easements to the City of Des Moines across Water Works' real estate. Receiving no oral or written comments, the Public Hearing was closed.

The new Grounds Maintenance Facility site includes two distinct areas that contain components of the public stormwater management system servicing this site and adjoining properties. These areas are located on property owned by the Board of Water Works Trustees; therefore, the City of Des Moines requires easement access to these areas to properly maintain the stormwater management system.

At the June 27th meeting, the Board of Water Works Trustees established a public hearing to evaluate the proposed easements together with an agreement that defines maintenance rights for the City of Des Moines and places design standards and reasonable restrictions on DMWW as the Grantor of the associated easement areas. Details of the Stormwater Management Facility Maintenance Covenant and Easement Agreement are being finalized between the two parties.

A motion was made by Mr. Gillette, seconded by Mr. Davis to authorize the Chairperson and CEO and General Manager to execute the Stormwater Management Facility Maintenance Covenant and Easement Agreement contingent upon final legal review. Upon vote, the motion was adopted, with each member of the Board listed above as present voting in favor of the motion.

Award 2023 Lead Water Service Line Replacement Contract

The 2023 Strategic Plan identified replacing 100 lead water service lines as a key performance indicator of DMWW's value towards the customer experience. Replacement of lead service lines within communities is a national and industry topic of discussion. Staff estimates the Des Moines water system may contain as many as 20,000 lead service lines. In Des Moines, service lines are owned by the customer.

A pilot project was recently conceptualized to achieve the specific goal of replacing 100 lead water service lines in 2023 at no cost to the individual customer. The pilot project was to also include community outreach and education efforts within a disadvantaged area of the community. Lessons learned from this pilot project will help facilitate future lead service line replacement projects.

The details of the pilot project were finalized with the creation of a Request for Proposals (RFP) for the 2023 Lead Water Service Line Replacement project. The RFP was published on June 23, 2023, and invited plumbing contractors to submit proposals for the targeted replacement of 100 lead service lines within the River Bend Neighborhood of Des Moines. Specification and proposal documents were sent to five prospective contractors. One (1) proposal was received and opened on July 13, 2023.

The engineer's estimate for the project was $1,011,425. After further evaluation by the engineer, unit prices for pot-holing and pavement replacement were low in the original estimate. Pricing supplied by Torgerson for these specific bid items is not inflated or unreasonable.

A motion was made by Ms. Munns, seconded by Mr. Gillette, to award the 2023 Lead Water Service Line Replacements contract to Torgerson Excavating, Inc., in the amount of $1,389,300.00 and authorize the Chairperson and the CEO and General Manager to execute the contract. Upon vote, the motion was adopted, with each member of the Board listed above as present voting in favor of the motion.

Request Permission to Establish the Date of Public Hearing for Environmental Review of Saylorville Water Treatment Plant Transmission Improvements as the Date of the August 2023 Board Meeting

To allow the 10 MGD expansion to occur at Saylorville Water Treatment Plant, two transmission elements (DT-20-08 and DT-20-09) were identified to be constructed. The Board approved a Professional Services Agreement with Snyder and Associates for design of the transmission mains in November of 2022.

The project costs are intended to be funded or reimbursed through a loan from the State Revolving Fund (SRF). As a part of the SRF loan application process, the Iowa Department of Natural Resources (IDNR) performs an environmental review for the project(s). Once the environmental review is completed, the borrower must hold a public hearing to inform the public of the project impacts and provide a forum for the public to voice input.

The IDNR has completed the environmental review for the two transmission main projects and issued a finding of no significant impact. The full Environmental Information Document is attached. DMWW must now hold a public hearing to continue the SRF loan application process.

A motion was made by Mr. Gillette, seconded by Mr. Davis, to establish the date of the August 2023 Board meeting as the date of Public Hearing for environmental review of the Saylorville Water Treatment Plant Transmission Improvements project. Upon vote, the motion was adopted, with each member of the Board listed above as present voting in favor of the motion.

Request Authorization for CEO and General Manager to Execute Agreements for Professional Services for RO Membrane Pilot Skid Testing

On February 6, 2023, the CEO and General Manager executed a Professional Services Agreement (PSA) with HDR for the SWTP Capacity Expansion project to start design of the source, treatment, and finished water pumping elements associates with the 10 MGD expansion at the Saylorville Water Treatment Plant. Part of the design process is to add additional RO membrane capacity. As part of the permitting process, pilot testing must be conducted. Therefore, staff and HDR developed a request for proposals (RFP) to conduct pilot skid testing that was sent out to interested parties.

The responding firms to the RFP were WesTech Engineering, Wigen Water Technologies, Harn R/O Systems, Inc., and Surplus Management, Inc. The proposals were evaluated based on schedule, experience, and cost. WesTech did not comply with the RFP, and Surplus Management, Inc. had the highest cost.

Since this will be considered a regional asset, the Central Iowa Water Works Technical Advisory Committee (TAC) voted on approving the RO pilot testing to an amount of up to $250,000. There were no dissenting opinions from the remaining members of the TAC.

A motion was made by Mr. Gillette, seconded by Ms. Munns, to authorize the CEO and General Manager to execute a Professional Services Agreement with Wigen Water Technologies in the amount of $52,500 and Harn R/O Systems, Inc. in the amount of $62,750 to conduct an RO membrane pilot skid testing, extending the testing period from 90 days to 120 days per Iowa Department of Natural Resources request, contingent upon negotiation of terms and conditions acceptable to staff and subsequent review by legal counsel. Upon vote, the motion was adopted, with each member of the Board listed above as present voting in favor of the motion.

Board Committee Reports

The following reports were provided:

- Finance and Audit Committee – A meeting was held on July 11, 2023, as reflected in the minutes thereof. Mr. Davis gave a brief summary of the meeting.
- Planning Committee – No meeting was held in July.
- Stowe Foundation – Mr. Gillette had no update to share.
- Greater Des Moines Botanical Garden – Mr. Gillette had no update to share.
- Des Moines Water Works Park Foundation Board – Ms. Boulton reminded attendees of the RAGBRAI-related events taking place in the park.

CEO and General Manager's Comments

Quarterly Strategic Plan Update – Mr. Corrigan provided an update on the progress of the utility's strategic initiatives through the end of the second quarter.

Mr. Corrigan asked Mr. Danley to share a brief update on RAGBRAI planning and coordination efforts.

Safety Update

Mr. Corrigan highlighted the Safety Update included in the materials that supplements the injury count shared on the meeting agenda and includes data on safety training.

4:50 p.m. adjourned

**MINUTES OF MEETING OF FINANCE AND AUDIT COMMITTEE**
**OF THE BOARD OF WATER WORKS TRUSTEES**
**PURSUANT TO NOTICE**
Tuesday, August 1, 2023
3:30 p.m.

Present (or Participating by Video or Audio Conference Link):

| | |
|---|---|
| Board Members: | Mr. Alec Davis |
| Staff Members: | Pat Bruner, Ted Corrigan, Kyle Danley, Doug Garnett, Amy Kahler, Mike McCurnin, Jenny Puffer, Laura Sarcone, Melissa Walker, Lindsey Wanderscheid, Michelle Watson |
| Also in attendance: | None |

Meeting called to order at 3:33 p.m.

1. CEO Spending Authority
   Ms. Kahler provided some history on the CEO's spending authority and made recommendations to increase the CEO spending authority to $150,000 and revise the Board Policy Manual accordingly.

2. CFO Comments
   Ms. Kahler shared that staff, with the assistance of Woodberry and Associates, is monitoring federal-level earmarks on capitalization grants, which fund the State Revolving Fund (SRF). She also recognized DMWW staff for their contributions to the successful RAGBRAI activities in the park on July 26th.

3. Public Comments – There were no comments from the public.

   Meeting adjourned at 4:04 p.m.

**MINUTES OF MEETING OF PLANNING COMMITTEE**
**OF THE BOARD OF WATER WORKS TRUSTEES**
**PURSUANT TO NOTICE**

Tuesday, August 8, 2023
3:30 p.m.

Present (or Participating by Video or Audio Conference Link):

| | |
|---|---|
| Board Members: | Mr. Alec Davis, Mr. Graham Gillette, and Ms. Susan Huppert |
| Staff Members: | Pat Bruner, Caitlin Caldwell, Nathan Casey, Ted Corrigan, Kyle Danley, Doug Garnett, Amy Kahler, Mike McCurnin, Jenny Puffer, Carla Schumacher, Melissa Walker, Lindsey Wanderscheid, Michelle Watson, and Mike Zach |
| Also in attendance: | None |

Meeting called to order at 3:30 p.m.

1.Water Main Replacement Program

Ms. Schumacher and Mr. Zach provided a detailed history of the Des Moines area distribution system and how DMWW is reinvesting back into the system due to either under sized water mains or water main breaks.

2.COO Comments

Mr. Danley shared that water sales are continuing to be high for the year and that DMWW is on pace to break the record of last year. He also talked about the regional Technical Committee and advised that many of the other communities have been sharing presentations about their distribution systems and how they interact with the rest of the systems.

Public Comments – There were no comments from the public.

Meeting adjourned at 4:27 p.m.

**DES MOINES WATER WORKS**
**FINANCIAL STATEMENT COMMENTS**
**FOR THE MONTH ENDED July 31, 2023**

## STATEMENT OF NET POSITION

Below are summaries of financial position and activity for the month of July 2023:

**Summary Net Position (in millions)**

| | Jul 31, 2023 | | Dec 31, 2022 | |
|---|---|---|---|---|
| Cash | | $26.0 | | $24.4 |
| Invested Cash | | 28.7 | | 23.1 |
| Accounts Receivable | | 14.7 | | 12.0 |
| Operating Reserves | | 15.0 | | 13.4 |
| Other Assets | | 6.2 | | 7.3 |
| Fixed Assets | 618.6 | | 618.6 | |
| Less: Accum Depreciation/Amortization | (236.7) | | (228.8) | |
| Net Fixed Assets | | 381.9 | | 389.8 |
| Construction in Progress | | 17.7 | | 9.6 |
| Total Assets | | 490.3 | | 479.6 |
| Deferred Outflows of Resources | | 11.6 | | 11.6 |
| **Total Assets & Deferred Outflows of Resources** | | **501.9** | | **491.2** |
| Current Liabilities | | 11.6 | | 14.6 |
| Long-Term Liabilities | | 32.8 | | 32.8 |
| Other Liabilities | | 2.1 | | 2.0 |
| Total Liabilities | | 46.5 | | 49.4 |
| Deferred Inflows of Resources | | 11.1 | | 11.1 |
| Net Position | | 444.2 | | 430.7 |
| **Total Liabilities, Deferred Inflows of Resources & Net Position** | | **501.9** | | **491.2** |

The deferred inflows and deferred outflows of resources are composed of the differences between actual and expected experience of different components of the pension plan related to future reporting periods. These differences are measured each year and then recognized in pension expense over multiple future reporting periods depending on the nature of the difference (e.g., investment returns, demographic experience, assumption changes, etc.). Deferred outflow of resources is a consumption of net assets applicable to a future reporting period. Deferred inflow of resources is an acquisition of net assets applicable to a future reporting period.

## STATEMENT OF EARNINGS

Summary information from the Statement of Earnings is as follows:

| | July 2023 | Year to date 2023 | Year to date 2022 |
|---|---|---|---|
| **Operating Revenue** | $ 9.8 million | $ 52.6 million | $ 46.6 million |
| **Operating Expenses** | $ 6.3 million | $ 40.1 million | $ 37.2 million |
| **Other Income (Expense)** | $ 0.2 million | $ 1.1 million | $ 0.1 million |
| **Net Earnings** | $ 3.7 million | $ 13.6 million | $ 9.5 million |

The table below summarizes expenses for the period-to-date ended July 2023 and 2022:

OPERATING EXPENSES
Year-to-Date Ending July 31, 2023 and 2022

| | YTD Jul 2023 | % of Total | YTD Jul 2022 | % of Total |
|---|---|---|---|---|
| Labor | $ 10,128,217 | 31% | $ 9,753,131 | 33% |
| Benefits | 4,985,110 | 15% | 5,105,686 | 17% |
| Purchased Services | 5,310,119 | 16% | 5,563,030 | 19% |
| Materials and Equipment | 3,048,219 | 9% | 2,292,281 | 8% |
| Chemicals | 5,014,200 | 16% | 3,961,582 | 13% |
| Utilities/Telephone | 1,906,950 | 6% | 1,618,514 | 5% |
| Insurance | 1,252,998 | 4% | 801,607 | 3% |
| Postage | 251,459 | 1% | 230,156 | 1% |
| Other | 291,257 | 1% | 293,129 | 1% |
| | $ 32,188,529 | 100% | $ 29,619,116 | 100% |

## CHANGES IN INVESTMENTS

| | Change from Prior Month | Average Annual Return |
|---|---|---|
| Operating Reserves | $40,367 | 1.07% |
| Invested Operating Cash | $82,072 | 1.08% |

Comments

Pension fund investments increased by $0.8 million for the month of July 2023. The pension fund balance as of July 31, 2023, was $54.2 million.

## PROJECT EXPENSES

Total expenditures for operating projects through July 2023 were approximately $32.2 million or 55% of the operating budget. Overall expenditures on capital projects were approximately $8.1 million or 10% of the capital budget.

**DES MOINES WATER WORKS**
**Statement of Net Position**
**For the Period Ending July 31, 2023 and December 31, 2022**

| | 2023 | 2022 | Change |
|---|---|---|---|
| **ASSETS** | | | |
| **Cash** | | | |
| Petty Cash | $ 1,900 | $ 1,900 | |
| Interest Bearing Cash | 25,994,295 | 24,362,029 | |
| Total | $ 25,996,195 | $ 24,363,929 | $ 1,632,266 |
| **Invested Cash** | | | |
| Cash on Hand | $ 401,477 | $ 452,194 | |
| U.S. Government Securities | 28,331,931 | 22,635,308 | |
| Total | $ 28,733,408 | $ 23,087,502 | $ 5,645,906 |
| **Accounts Receivable** | | | |
| Accounts Receivable | $ 11,677,618 | $ 8,936,610 | |
| Accounts Receivable Unbilled | 2,914,894 | 2,914,894 | |
| Accrued Interest Receivable | 127,385 | 98,524 | |
| Total | $ 14,719,897 | $ 11,950,028 | $ 2,769,870 |
| **Board Designated Reserves** | | | |
| **Operating** | | | |
| Cash On Hand | $ 19,605 | $ 23,509 | |
| U.S. Government Securities | 14,971,891 | 13,383,339 | |
| Total | $ 14,991,496 | $ 13,406,848 | $ 1,584,648 |
| **Revenue Bond Reserves (Invested)** | | | |
| Cash on Hand | $ 7 | $ 0 | |
| Total | $ 7 | $ 0 | $ 7 |
| **Other Assets** | | | |
| Materials in Stock Accounts | $ 4,528,390 | $ 4,770,969 | |
| Water Receivable Long-Term | 224,350 | 241,040 | |
| Lease Receivable | 1,068,490 | 1,068,490 | |
| Prepaid Insurance | 281,679 | 937,132 | |
| Prepaid Expense | 283,693 | 487,730 | |
| Accum Unrealized Gain/(Loss) Invest | (146,297) | (165,986) | |
| Total | $ 6,240,305 | $ 7,339,376 | $ (1,099,071) |

**DES MOINES WATER WORKS**
**Statement of Net Position**
**For the Period Ending July 31, 2023 and December 31, 2022**

| | 2023 | 2022 | Change |
|---|---|---|---|
| **ASSETS-CONTINUED** | | | |
| **Fixed Assets** | | | |
| Land & Right of Way | $ 8,208,369 | $ 8,208,369 | |
| Structures and Machinery | 177,404,410 | 177,404,410 | |
| Water Supply System | 61,641,214 | 61,641,214 | |
| Urbandale Booster System | 509,687 | 509,687 | |
| Pipelines | 298,387,507 | 298,387,507 | |
| Meters | 33,622,365 | 33,622,365 | |
| Laboratory Equipment | 822,658 | 822,658 | |
| Distribution Equipment | 1,664,460 | 1,664,460 | |
| Mobile Equipment | 4,464,544 | 4,464,544 | |
| Vehicles | 3,019,327 | 3,019,327 | |
| Office Equipment | 1,346,166 | 1,346,166 | |
| MIS Equipment | 27,407,397 | 27,407,397 | |
| Intangible Right-to-use Asset | 115,750 | 115,750 | |
| Total | $ 618,613,855 | $ 618,613,855 | |
| Accumulated Depreciation/Amortization | (236,735,923) | (228,831,547) | |
| Construction in Progress | $ 17,732,080 | 9,644,209 | |
| Total Fixed Assets | $ 399,610,013 | $ 399,426,517 | $ 183,496 |
| **TOTAL ASSETS** | **$ 490,291,321** | **$ 479,574,199** | **$ 10,717,122** |
| **DEFERRED OUTFLOWS OF RESOURCES** | | | |
| Pension Related Amounts | 11,596,970 | 11,596,970 | |
| Total | **$ 11,596,970** | **$ 11,596,970** | $ - |
| **TOTAL ASSETS & DEFERRED OUTFLOWS OF RESOURCES** | **$ 501,888,291** | **$ 491,171,169** | **$ 10,717,122** |

**DES MOINES WATER WORKS**
**Statement of Net Position**
**For the Period Ending July 31, 2023 and December 31, 2022**

| | 2023 | 2022 | Change |
|---|---|---|---|
| **LIABILITIES** | | | |
| **Current Liabilities** | | | |
| Accounts Payable | $ 440,686 | $ 2,732,873 | |
| Construction Payables | 3,577,488 | 5,108,072 | |
| Salaries and Wages Payable | 1,146,962 | 1,048,736 | |
| Accrued Leave | 3,758,369 | 3,758,369 | |
| State Tax Payable | 440,542 | 323,030 | |
| Work Comp Reserves | 490,917 | 490,917 | |
| Fees Collected for Other Entities | 1,740,357 | 1,114,223 | |
| Unclaimed Refunds | 21,674 | 10,622 | |
| Total | $ 11,616,995 | $ 14,586,842 | $ (2,969,847) |
| **Long Term Liabilities** | | | |
| Pension Liability | $ 18,270,897 | $ 18,270,897 | |
| Other Post-Employment Benefit Liability | 14,425,185 | 14,425,185 | |
| Lease Liability | 57,236 | 57,236 | |
| Total | $ 32,753,318 | $ 32,753,318 | $ - |
| **Other Liabilities** | | | |
| Deposits by Consumers | $ 2,100,948 | $ 2,010,429 | |
| Project H2O | 31,131 | 11,046 | |
| Miscellaneous Liabilities | 9,745 | 9,745 | |
| Total | $ 2,141,823 | $ 2,031,219 | $ 110,604 |
| **TOTAL LIABILITIES** | **$ 46,512,136** | **$ 49,371,379** | **$ (2,859,243)** |
| **DEFERRED INFLOWS OF RESOURCES** | | | |
| Pension Related Amounts | $ 2,931,843 | $ 2,931,843 | |
| Other Post-Employment Benefit Amounts | 7,166,158 | 7,166,158 | |
| Lease Amounts | 1,048,471 | 1,048,471 | |
| Total | $ 11,146,472 | $ 11,146,472 | **$ -** |
| **NET POSITION** | **$ 444,229,683** | **$ 430,653,318** | **$ 13,576,365** |
| **TOTAL LIABILITIES, DEFERRED INFLOWS OF RESOURCES & NET POSITION** | **$ 501,888,291** | **$ 491,171,169** | **$ 10,717,122** |

**Des Moines Water Works**
**Statement of Earnings and Retained Earnings**
**For the Month Ended July 31, 2023, the Seven Month Endings July 31, 2023**
**and the Seven Months Ending July 31, 2022**

| | Current Month 2023 | Year-To-Date 2023 | Yearly Budget 2023 | Actual vs. Budget Variance | Year-To-Date 2022 | Year-To-Date Current vs. Prior Year |
|---|---|---|---|---|---|---|
| OPERATING REVENUE | | | | | | |
| Water Sales | $ 8,936,293 | $ 48,904,545 | $ 78,982,504 | $ (30,077,959) | $ 43,563,209 | $ 5,341,336 |
| Sewer Services - Runnells | 8,529 | 54,633 | 77,291 | (22,658) | 53,091 | 1,542 |
| Late Fees | 42,146 | 264,842 | 375,000 | (110,158) | 251,710 | 13,132 |
| Other Sales and Services | 440,186 | 1,619,344 | 3,023,245 | (1,403,901) | 1,443,705 | 175,639 |
| Billing Services Revenue | 183,069 | 1,047,849 | 2,166,000 | (1,118,151) | 1,011,179 | 36,670 |
| Land Use Revenue | 15,606 | 125,989 | 216,000 | (90,011) | 128,743 | (2,754) |
| Connection Fees | 209,300 | 530,925 | 400,000 | 130,925 | 187,250 | 343,675 |
| Cash Discount and Refunds | 374 | 1,914 | - | 1,914 | 2,121 | (207) |
| Total Operating Revenues | $ 9,835,503 | $ 52,550,041 | $ 85,240,040 | $ (32,689,999) | $ 46,641,008 | $ 5,909,033 |
| OPERATING EXPENSES | | | | | | |
| Labor | $ 2,130,729 | $ 10,128,217 | $ 17,714,194 | $ 7,585,977 | $ 9,753,131 | $ (375,086) |
| Benefits | 329,616 | 2,308,112 | 4,244,600 | 1,936,488 | 2,235,699 | (72,413) |
| Retirement Benefits | 374,158 | 2,676,998 | 5,454,800 | 2,777,802 | 2,869,987 | 192,989 |
| Postage | 35,177 | 251,459 | 450,000 | 198,541 | 230,156 | (21,303) |
| Telephone | 26,069 | 171,469 | 288,735 | 117,266 | 159,738 | (11,731) |
| Insurance | 154,423 | 1,252,998 | 1,625,000 | 372,002 | 801,607 | (451,391) |
| Casualty Loss | - | 32,694 | 110,000 | 77,306 | 26,961 | (5,733) |
| Loss on Bad Accounts | (644) | (15,053) | 155,000 | 170,053 | (5,197) | 9,856 |
| Purchased Services | 694,716 | 5,310,119 | 10,990,850 | 5,680,731 | 5,563,030 | 252,911 |
| Training | 3,370 | 118,272 | 251,270 | 132,998 | 75,637 | (42,635) |
| Materials and Equipment | 279,599 | 3,048,219 | 4,371,355 | 1,323,136 | 2,292,281 | (755,938) |
| Chemicals | 769,183 | 5,014,200 | 8,952,971 | 3,938,771 | 3,961,582 | (1,052,618) |
| Utilities | 395,649 | 1,735,481 | 3,149,500 | 1,414,019 | 1,458,776 | (276,705) |
| Gasoline/Fuel | 23,813 | 155,344 | 382,680 | 227,336 | 195,728 | 40,384 |
| Total Operating Expense | $ 5,215,858 | $ 32,188,529 | $ 58,140,955 | $ 25,952,426 | $ 29,619,116 | $ (2,569,413) |
| Depreciation & Amort Expense | $ 1,126,705 | 7,904,376 | 13,583,232 | 5,678,856 | $ 7,623,075 | (281,301) |
| Net Income from Operations | 3,492,940 | 12,457,136 | 13,515,853 | (1,058,717) | 9,398,817 | 3,058,319 |
| Other Income (Expense) : | | | | | | |
| Capital Contributions | $ - | $ - | $ - | $ - | $ 161,839 | $ (161,839) |
| Investment Income | $ 33,022 | $ 242,857 | $ 195,600 | $ 47,257 | 16,183 | 226,674 |
| Net Change - Investment Values | 171,626 | 864,964 | - | 864,964 | (78,790) | 943,754 |
| Interest Income / Expense | - | - | - | - | (1,832) | 1,832 |
| Gain/Loss on Fixed Assets | - | 11,408 | - | 11,408 | - | 11,408 |
| Other Income (Expense), net | $ 204,648 | $ 1,119,229 | $ 195,600 | $ 923,629 | $ 97,400 | $ 1,021,829 |
| Net Earnings | $ 3,697,588 | $ 13,576,365 | $ 13,711,453 | $ (135,088) | $ 9,496,217 | $ 4,080,148 |
| Retained Earnings, January 1 | | $ 430,653,318 | | | $ 396,920,642 | |
| Ending Retained Earnings | | $ 444,229,683 | | | $ 406,416,859 | |

**DES MOINES WATER WORKS**
**STATEMENT OF INVESTMENT CHANGES**
**FOR THE MONTH ENDED JULY 31, 2023**

**BOND RESERVES**

| | Balance at 6/30/2023 | Additions | Deductions | Balance at 7/31/2023 |
|---|---|---|---|---|
| Cash on Hand | $7 | - | - | $7 |
| U.S. Government Securities | $0 | - | - | 0 |
| Total Bond Reserves | $7 | $0 | $0 | $7 |

**INVESTED RESERVES**

| | Balance at 6/30/2023 | Additions | Deductions | Balance at 7/31/2023 |
|---|---|---|---|---|
| **Operating** | | | | |
| Cash on Hand | $21,916 | 1,665 | 3,976 | $19,605 |
| U.S. Government Securities | $14,929,212 | 42,679 | - | $14,971,891 |
| Total Invested Reserves | $14,951,129 | $44,344 | $3,976 | $14,991,496 |

The average annual interest earned was 1.07%.

**INVESTED OPERATING CASH**

| | Balance at 6/30/2023 | Additions | Deductions | Balance at 7/31/2023 |
|---|---|---|---|---|
| **Operating** | | | | |
| Cash on Hand | $403,720 | 5,536 | 7,779 | $401,477 |
| U.S. Government Securities | $28,247,616 | 84,315 | - | 28,331,931 |
| Total Invested Reserves | $28,651,336 | $89,851 | $7,779 | $28,733,408 |

The average annual interest earned was 1.08%.

**DES MOINES WATER WORKS**
**STATEMENT OF INVESTMENT CHANGES**
**YEAR TO DATE 2023**

**PENSION FUND**

| | Balance 1/1/2023 | Transfers, Expenses & Deposits | Benefit Payments | Investment Return | Balance at 7/31/2023 | YTD % Return |
|---|---|---|---|---|---|---|
| ***Fixed Income*** | | | | | | |
| Mellon Capital Mgmt - Bond Market Index | 5,884,782 | 2,033,083 | (2,244,247) | 126,226 | 5,799,843 | 2.50% |
| Neuberger Berman / Mellon / DDJ - High Yield I | 2,054,249 | (33,293) | | 147,183 | 2,168,138 | 7.18% |
| Principal Global Investors - Income | 17,705,946 | 325,417 | 2,821 | 408,836 | 18,443,020 | 2.30% |
| ***Large U.S. Equity*** | | | | | | |
| Principal Global Investors - Equity Income | 6,222,871 | 120,389 | | 502,560 | 6,845,820 | 8.03% |
| Principal Global Investors - Large Cap S&P 500 Index | 2,608,625 | (222,678) | | 522,745 | 2,908,692 | 20.37% |
| T. Rowe Price / Brown Advisory - Large Cap Growth | 6,026,644 | (1,027,575) | | 1,815,675 | 6,814,745 | 31.14% |
| ***Small/Mid U.S. Equity*** | | | | | | |
| Robert Baird / Eagle Asset Mgmt - Mid Cap Growth III | 894,171 | (43,709) | | 152,040 | 1,002,502 | 17.16% |
| DFA / Vaughan Nelson / LA Capital - Small Cap Value II | 457,533 | (10,025) | | 67,169 | 514,677 | 14.73% |
| AB / Brown / Emerald - Small Cap Growth I | 453,452 | (24,089) | | 74,295 | 503,659 | 16.55% |
| LA Capital Mgmt / Victory - Mid Cap Value I | 918,826 | 21,087 | | 76,027 | 1,015,940 | 8.22% |
| ***International Equity*** | | | | | | |
| Causeway / Barrow Hanley - Overseas | 1,698,521 | 105,504 | | 347,700 | 2,151,726 | 20.19% |
| Principal Global Investors / DFA - International Small Cap | 769,177 | (836,789) | | 67,612 | 0 | 8.78% |
| Principal Global Investors - Diversified International | 3,865,020 | 154,626 | | 583,425 | 4,603,071 | 14.96% |
| Origin Asset Management LLP - Origin Emerging Markets | 1,345,371 | (100,447) | | 173,990 | 1,418,914 | 13.12% |
| **Total Principal Financial** | $ 50,905,188 | $ 461,500 | $ (2,241,426) | $ 5,065,485 | $ 54,190,747 | 8.35% |

DES MOINES WATER WORKS
Project Costs by Department - Summary
Year to Date ended July 31, 2023
58% of Year Completed

| | | YTD Actual | Yearly Budget 2023 | Budget Adjustment / Carry Over | Net Yearly 2023 Budget | Variance | % of Budget |
|---|---|---|---|---|---|---|---|
| Operating | | | | | | | |
| | Office of the CEO/General Manager | $807,790 | $2,412,086 | $0 | $2,412,086 | $1,604,296 | 33% |
| | Customer Service | $3,132,832 | $5,605,717 | $0 | $5,605,717 | $2,472,885 | 56% |
| | Engineering | $1,268,738 | $1,776,480 | $0 | $1,776,480 | $507,742 | 71% |
| | Finance | $4,311,716 | $5,848,016 | ($2,886) | $5,845,130 | $1,533,414 | 74% |
| | Human Resources | $567,197 | $956,492 | $0 | $956,492 | $389,295 | 59% |
| | Information Technology | $1,954,690 | $3,393,739 | $0 | $3,393,739 | $1,439,049 | 58% |
| | Office of the Chief Operating Officer | $1,322,615 | $2,818,019 | $2,886 | $2,820,905 | $1,498,290 | 47% |
| | Water Distribution | $4,480,340 | $8,206,335 | $0 | $8,206,335 | $3,725,995 | 55% |
| | Water Production | $14,342,610 | $27,124,071 | $0 | $27,124,071 | $12,781,461 | 53% |
| | Total Operating | $32,188,529 | $58,140,955 | $0 | $58,140,955 | $25,952,426 | 55% |
| Capital | | | | | | | |
| | Office of the CEO/General Manager | $0 | $0 | $0 | $0 | $0 | No Budget |
| | Customer Service | $842,415 | $1,736,895 | $0 | $1,736,895 | $894,480 | 49% |
| | Engineering | $5,090,590 | $54,338,440 | $20,472,250 | $74,810,690 | $69,720,100 | 7% |
| | Finance | $0 | $0 | $0 | $0 | $0 | No Budget |
| | Human Resources | $0 | $0 | $0 | $0 | $0 | No Budget |
| | Information Technology | $423,477 | $2,140,750 | $0 | $2,140,750 | $1,717,273 | 20% |
| | Office of the Chief Operating Officer | $7,885 | $251,473 | $0 | $251,473 | $243,588 | 3% |
| | Water Distribution | $440,055 | $1,673,131 | $0 | $1,673,131 | $1,233,076 | 26% |
| | Water Production | $1,318,063 | $2,321,067 | $784,000 | $3,105,067 | $1,787,004 | 42% |
| | Total Capital | $8,122,484 | $62,461,756 | $21,256,250 | $83,718,006 | $75,595,522 | 10% |
| Total Project Costs | | $40,311,013 | $120,602,711 | $21,256,250 | $141,858,961 | $101,547,948 | 28% |

DES MOINES WATER WORKS
Project Costs by Department - Summary
Year to Date ended July 31, 2023
58% of Year Completed

**Office of the CEO/General Manager**

| | | YTD Actual | Yearly Budget 2023 | Budget Adjustment / Carry Over | Net Yearly 2023 Budget | Variance | % of Budget |
|---|---|---|---|---|---|---|---|
| Operating | | | | | | | |
| 950-200 | New Business, Community & Economic Dev | $56,298 | $78,036 | $0 | $78,036 | $21,738 | 72% |
| 996-001 | CEO Department Administration | $411,099 | $413,571 | $0 | $413,571 | $2,472 | 99% |
| 996-030 | Board Activities | $118,693 | $1,327,026 | $0 | $1,327,026 | $1,208,333 | 9% |
| 996-200 | Business Strategies | $77,125 | $188,972 | $0 | $188,972 | $111,847 | 41% |
| 996-210 | Project Management | $54,392 | $98,635 | $0 | $98,635 | $44,243 | 55% |
| 995-010 | Public Policy - WS Advocate | $90,182 | $305,846 | $0 | $305,846 | $215,664 | 29% |
| | Total Operating | $807,790 | $2,412,086 | $0 | $2,412,086 | $1,604,296 | 33% |
| | OCEO Capital | | | | | | |
| | Total Capital | $0 | $0 | $0 | $0 | $0 | $0 |
| Total Office of CEO/General Manager | | $807,790 | $2,412,086 | $0 | $2,412,086 | $1,604,296 | 33% |

DES MOINES WATER WORKS
Project Costs by Department - Summary
Year to Date ended July 31, 2023
58% of Year Completed

**Customer Service**

| | | YTD Actual | Yearly Budget 2023 | Budget Adjustment / Carry Over | Net Yearly 2023 Budget | Variance | % of Budget |
|---|---|---|---|---|---|---|---|
| Operating | | | | | | | |
| 950-001 | Customer Service Admin | $1,346,279 | $2,145,683 | $0 | $2,145,683 | $799,404 | 63% |
| 950-100 | CS Contact Ctr and Data Quality | $570,207 | $1,200,183 | $0 | $1,200,183 | $629,976 | 48% |
| 950-300 | Public Relations and Communication | $124,496 | $265,902 | $0 | $265,902 | $141,406 | 47% |
| 950-500 | CS Collections and Dispatch | $295,856 | $626,014 | $0 | $626,014 | $330,158 | 47% |
| 950-600 | Field CS and Water Quality | $795,994 | $1,367,935 | $0 | $1,367,935 | $571,941 | 58% |
| | Total Operating | $3,132,832 | $5,605,717 | $0 | $5,605,717 | $2,472,885 | 56% |
| Capital | | | | | | | |
| 955-060 | Field Customer Service Capital | $835,946 | $1,736,895 | $0 | $1,736,895 | $900,949 | 48% |
| 925-160 | Radio Frequency - Capital | $6,468 | $0 | $0 | $0 | ($6,468) | No Budget |
| | Total Capital | $842,415 | $1,736,895 | $0 | $1,736,895 | $894,480 | 49% |
| Total Customer Service | | $3,975,247 | $7,342,612 | $0 | $7,342,612 | $3,367,365 | 54% |

DES MOINES WATER WORKS
Project Costs by Department - Summary
Year to Date ended July 31, 2023
58% of Year Completed

**Engineering**

| | | YTD Actual | Yearly Budget 2023 | Budget Adjustment / Carry Over | Net Yearly 2023 Budget | Variance | % of Budget |
|---|---|---|---|---|---|---|---|
| Operating | | | | | | | |
| 940-001 | Engineering Dept Administration | $1,253,573 | $1,706,063 | $0 | $1,706,063 | $452,490 | 73% |
| 940-010 | Engineering Studies | $15,165 | $70,417 | $0 | $70,417 | $55,252 | 22% |
| | Total Operating | $1,268,738 | $1,776,480 | $0 | $1,776,480 | $507,742 | 71% |
| Capital | | | | | | | |
| 945-010 | Facility Management | $1,275,424 | $3,956,359 | $4,351,750 | $8,308,109 | $7,032,685 | 15% |
| 945-012 | New ASR Well | $668,738 | $2,750,882 | $638,000 | $3,388,882 | $2,720,144 | 20% |
| 945-080 | WMR - Des Moines | $932,564 | $9,452,241 | $5,000,000 | $14,452,241 | $13,519,677 | 6% |
| 945-090 | WMR - Polk County | $137,988 | $3,137,711 | $3,000,000 | $6,137,711 | $5,999,723 | 2% |
| 945-095 | WMR - Windsor Heights | $13,702 | $28,221 | $784,000 | $812,221 | $798,519 | 2% |
| 945-100 | WMR - Pleasant Hill | $288 | $300,000 | $0 | $300,000 | $299,712 | 0% |
| 945-120 | WMR - Cumming | $1,583 | $0 | $0 | $0 | ($1,583) | No Budget |
| 945-200 | Development Plan Review & Inspection | $229,386 | $284,784 | $42,000 | $326,784 | $97,398 | 70% |
| 945-210 | Core Network Feeder Mains | $308,346 | $4,165,673 | $0 | $4,165,673 | $3,857,327 | 7% |
| 945-220 | Fleur Drive Treatment Plant | $362,859 | $8,945,587 | $3,675,500 | $12,621,087 | $12,258,228 | 3% |
| 945-225 | McMullen Water Treatment Plant | $205,339 | $789,543 | $1,781,000 | $2,570,543 | $2,365,205 | 8% |
| 945-228 | Saylorville Water Treatment Plant | $769,375 | $20,527,439 | $0 | $20,527,439 | $19,758,064 | 4% |
| 945-230 | Remote Facilities - Pumping & Storage | $55,727 | $0 | $1,200,000 | $1,200,000 | $1,144,273 | 5% |
| 945-235 | Joint NW Storage, PS and Feeder Mains | $114,082 | $0 | $0 | $0 | ($114,082) | No Budget |
| 945-245 | Joint SW Storage, PS and Feeder Mains | $11,930 | $0 | $0 | $0 | ($11,930) | No Budget |
| 945-250 | Waukee-Xenia Feeder Main & Pump Station | $3,259 | $0 | $0 | $0 | ($3,259) | No Budget |
| | Total Capital | $5,090,590 | $54,338,440 | $20,472,250 | $74,810,690 | $69,720,100 | 7% |
| Total Engineering | | $6,359,328 | $56,114,920 | $20,472,250 | $76,587,170 | $70,227,842 | 8% |

DES MOINES WATER WORKS
Project Costs by Department - Summary
Year to Date ended July 31, 2023
58% of Year Completed

**Finance**

| | | YTD Actual | Yearly Budget 2023 | Budget Adjustment / Carry Over | Net Yearly 2023 Budget | Variance | % of Budget |
|---|---|---|---|---|---|---|---|
| Operating | | | | | | | |
| 930-001 | Finance Dept Administration | $585,369 | $1,034,466 | ($2,886) | $1,031,580 | $446,211 | 57% |
| 930-010 | Financial Services | $1,626,322 | $2,284,090 | $0 | $2,284,090 | $657,769 | 71% |
| 930-086 | Other Accounting Expenses | $5,749 | $0 | $0 | $0 | ($5,749) | No Budget |
| 930-090 | Purchasing | $68,283 | $97,989 | $0 | $97,989 | $29,706 | 70% |
| 950-410 | A/R Management | $546,004 | $892,813 | $0 | $892,813 | $346,809 | 61% |
| 970-010 | Central Stores | $69,377 | $128,179 | $0 | $128,179 | $58,802 | 54% |
| 970-500 | GDMBG Operations and Maintenance | $100,135 | $100,000 | $0 | $100,000 | ($135) | 100% |
| | Department Operating | $3,001,237 | $4,537,537 | ($2,886) | $4,534,651 | $1,533,414 | 66% |
| 930-010 | Financial Services - PILOT | $1,310,479 | $1,310,479 | $0 | $1,310,479 | $0 | 100% |
| | Total Operating | $4,311,716 | $5,848,016 | ($2,886) | $5,845,130 | $1,533,414 | 74% |
| Capital | | | | | | | |
| 955-090 | Pmt/Mail Processing Capital | $0 | $0 | $0 | $0 | $0 | No Budget |
| | Total Capital | $0 | $0 | $0 | $0 | $0 | No Budget |
| Total Finance | | $4,311,716 | $5,848,016 | ($2,886) | $5,845,130 | $1,533,414 | 74% |

DES MOINES WATER WORKS
Project Costs by Department - Summary
Year to Date ended July 31, 2023
58% of Year Completed

**Human Resources**

| | | YTD Actual | Yearly Budget 2023 | Budget Adjustment / Carry Over | Net Yearly 2023 Budget | Variance | % of Budget |
|---|---|---|---|---|---|---|---|
| Operating | | | | | | | |
| 910-001 | HR Dept Administration | $203,556 | $334,425 | $0 | $334,425 | $130,869 | 61% |
| 910-010 | Employee Relations | $160,333 | $262,179 | $0 | $262,179 | $101,846 | 61% |
| 910-060 | Employment | $135,013 | $134,901 | $0 | $134,901 | ($112) | 100% |
| 910-110 | Compensation/Benefits | $68,536 | $143,265 | $0 | $143,265 | $74,729 | 48% |
| 910-150 | Employee Learning & Growth | ($241) | $81,722 | $0 | $81,722 | $81,963 | 0% |
| | Total Operating | $567,197 | $956,492 | $0 | $956,492 | $389,295 | 59% |
| Capital | | | | | | | |
| | Total Capital | $0 | $0 | $0 | $0 | $0 | No Budget |
| Total Human Resources | | $567,197 | $956,492 | $0 | $956,492 | $389,295 | 59% |

DES MOINES WATER WORKS
Project Costs by Department - Summary
Year to Date ended July 31, 2023
58% of Year Completed

**Information Technology**

| | | YTD Actual | Yearly Budget 2023 | Budget Adjustment / Carry Over | Net Yearly 2023 Budget | Variance | % of Budget |
|---|---|---|---|---|---|---|---|
| Operating | | | | | | | |
| 920-001 | IT Dept Administration | $473,153 | $817,646 | $0 | $817,646 | $344,493 | 58% |
| 920-160 | Technical Services | $103,764 | $270,953 | $0 | $270,953 | $167,189 | 38% |
| 920-240 | IT Development & Application Svcs | $16,404 | $205,712 | $0 | $205,712 | $189,308 | 8% |
| 920-250 | IT Services | $813,708 | $1,192,514 | $0 | $1,192,514 | $378,806 | 68% |
| 920-350 | System Services | $547,662 | $906,914 | $0 | $906,914 | $359,252 | 60% |
| | Total Operating | $1,954,690 | $3,393,739 | $0 | $3,393,739 | $1,439,049 | 58% |
| Capital | | | | | | | |
| 925-010 | Info Systems Capital | $423,477 | $2,140,750 | $0 | $2,140,750 | $1,717,273 | 20% |
| | Total Capital | $423,477 | $2,140,750 | $0 | $2,140,750 | $1,717,273 | 20% |
| Total Information Technology | | $2,378,167 | $5,534,489 | $0 | $5,534,489 | $3,156,322 | 43% |

DES MOINES WATER WORKS
Project Costs by Department - Summary
Year to Date ended July 31, 2023
58% of Year Completed

**Office of the Chief Operating Officer**

| | | YTD Actual | Yearly Budget 2023 | Budget Adjustment / Carry Over | Net Yearly 2023 Budget | Variance | % of Budget |
|---|---|---|---|---|---|---|---|
| Operating | | | | | | | |
| 993-000 | OCOO Dept Administration | $388,489 | $857,364 | $0 | $857,364 | $468,875 | 45% |
| 960-510 | Risk & Incident Management | $349,763 | $926,008 | $2,886 | $928,894 | $579,131 | 38% |
| 910-240 | Safety | $160,562 | $231,620 | $0 | $231,620 | $71,058 | 69% |
| 970-060 | Grounds Maintenance | $423,801 | $803,027 | $0 | $803,027 | $379,226 | 53% |
| | Total Operating | $1,322,615 | $2,818,019 | $2,886 | $2,820,905 | $1,498,290 | 47% |
| Capital | | | | | | | |
| 975-005 | Grounds Maintenance Capital | $7,885 | $251,473 | $0 | $251,473 | $243,588 | 3% |
| | Total Capital | $7,885 | $251,473 | $0 | $251,473 | $243,588 | 3% |
| Total Office of the COO | | $1,330,500 | $3,069,492 | $2,886 | $3,072,378 | $1,741,878 | 43% |

DES MOINES WATER WORKS
Project Costs by Department - Summary
Year to Date ended July 31, 2023
58% of Year Completed

**Water Distribution**

| | | YTD Actual | Yearly Budget 2023 | Budget Adjustment / Carry Over | Net Yearly 2023 Budget | Variance | % of Budget |
|---|---|---|---|---|---|---|---|
| Operating | | | | | | | |
| 960-001 | Water Dist Dept Administration | $1,424,720 | $3,204,357 | $0 | $3,204,357 | $1,779,637 | 44% |
| 960-010 | Distribution Administration | $64,422 | $132,812 | $0 | $132,812 | $68,390 | 49% |
| 960-100 | Dist System Maint/Repairs | $1,984,831 | $3,096,374 | $0 | $3,096,374 | $1,111,543 | 64% |
| 960-160 | Water Distribution Support | $109,585 | $195,424 | $0 | $195,424 | $85,839 | 56% |
| 960-180 | Leak Detection | $462,497 | $756,222 | $0 | $756,222 | $293,725 | 61% |
| 960-250 | Distribution Billed Services | $434,284 | $821,146 | $0 | $821,146 | $386,862 | 53% |
| | Total Operating | $4,480,340 | $8,206,335 | $0 | $8,206,335 | $3,725,995 | 55% |
| Capital | | | | | | | |
| 965-010 | Distribution System Improvements | $430,987 | $1,638,831 | $0 | $1,638,831 | $1,207,844 | 26% |
| 965-025 | Dist Billed Services Capital | $0 | $22,500 | $0 | $22,500 | $22,500 | 0% |
| 965-200 | Leak Detection Equipment | $9,068 | $11,800 | $0 | $11,800 | $2,732 | 77% |
| | Total Capital | $440,055 | $1,673,131 | $0 | $1,673,131 | $1,233,076 | 26% |
| Total Water Distribution | | $4,920,395 | $9,879,466 | $0 | $9,879,466 | $4,959,071 | 50% |

DES MOINES WATER WORKS
Project Costs by Department - Summary
Year to Date ended July 31, 2023
58% of Year Completed

**Water Production**

| | | YTD Actual | Yearly Budget 2023 | Budget Adjustment / Carry Over | Net Yearly 2023 Budget | Variance | % of Budget |
|---|---|---|---|---|---|---|---|
| Operating | | | | | | | |
| 970-110 | Facility Maintenance | $352,403 | $753,039 | $0 | $753,039 | $400,636 | 47% |
| 970-200 | Vehicle Maintenance | $670,920 | $1,306,157 | $0 | $1,306,157 | $635,237 | 51% |
| 970-360 | Communication Sys Maintenance | $17,588 | $53,064 | $0 | $53,064 | $35,476 | 33% |
| 970-450 | HVAC Operations & Maintenance | $74,992 | $99,577 | $0 | $99,577 | $24,585 | 75% |
| 980-001 | Water Production Dept Admin | $2,379,612 | $4,388,290 | $0 | $4,388,290 | $2,008,678 | 54% |
| 980-010 | Water Production Operations | $745,809 | $1,189,600 | $0 | $1,189,600 | $443,791 | 63% |
| 980-020 | Fleur Treatment Chem/Energy | $4,999,098 | $8,903,133 | $0 | $8,903,133 | $3,904,035 | 56% |
| 980-030 | McMullen Treatment Chem/Energy | $1,563,768 | $3,231,252 | $0 | $3,231,252 | $1,667,484 | 48% |
| 980-040 | Saylorville Treatment Chem/Energy | $649,882 | $1,605,047 | $0 | $1,605,047 | $955,165 | 40% |
| 980-200 | Fleur Plant Maintenance | $1,062,902 | $1,893,639 | $0 | $1,893,639 | $830,737 | 56% |
| 980-250 | McMullen Plant Maintenance | $251,996 | $582,851 | $0 | $582,851 | $330,855 | 43% |
| 980-300 | Saylorville Plant Maintenance | $318,178 | $521,680 | $0 | $521,680 | $203,502 | 61% |
| 980-350 | WP Maintenance Oversight | $104,649 | $220,992 | $0 | $220,992 | $116,343 | 47% |
| 980-410 | Louise P. Moon Pumping & Maint. | $246,014 | $581,339 | $0 | $581,339 | $335,325 | 42% |
| 980-420 | PC PS Maintenance | $90,081 | $160,986 | $0 | $160,986 | $70,905 | 56% |
| 980-430 | DM Remote Storage & Pumping | $358,666 | $805,605 | $0 | $805,605 | $446,939 | 45% |
| 980-500 | Routine Laboratory Monitoring | $419,498 | $657,139 | $0 | $657,139 | $237,641 | 64% |
| 980-530 | Source Water Quality | $36,553 | $170,681 | $0 | $170,681 | $134,128 | 21% |
| | Total Operating | $14,342,610 | $27,124,071 | $0 | $27,124,071 | $12,781,461 | 53% |
| Capital | | | | | | | |
| 985-010 | Water Production Reinvestment | $701,740 | $1,196,609 | $0 | $1,196,609 | $494,869 | 59% |
| 975-010 | Vehicle Capital | $616,323 | $1,124,458 | $784,000 | $1,908,458 | $1,292,135 | 32% |
| | Total Capital | $1,318,063 | $2,321,067 | $784,000 | $3,105,067 | $1,787,004 | 42% |
| Total Water Production | | $15,660,672 | $29,445,138 | $784,000 | $30,229,138 | $14,568,466 | 52% |

**Consent Agenda**
**Item 1-C**

MONTHLY SCHEDULE FOR THE MONTH OF JULY 2023

| | | |
|---|---|---|
| ACCOUNTS PAYABLE MONTHLY SCHEDULE | Weekly Check Runs | 5,943,958.65 |
| EMPLOYEE PAYROLL | Bi Weekly Payrolls | 957,766.29 |
| TOTAL | | $6,901,724.94 |

**PAYMENTS FOR JULY, 2023**

PeopleSoft Financials Report ID: DWAPR002.sqr

| Check No. | Paid to: | Description | Amount |
|---|---|---|---|
| 64641 | IPERS Collections | Pension Plan Contribution | $230,927.35 |
| 70723 | Des Moines Metro Credit Union | Credit Union Payable | 22,616.00 |
| 71423 | EMC Risk Services, Inc | Workers Comp | 40,839.60 |
| 72123 | Des Moines Metro Credit Union | Credit Union Payable | 22,419.00 |
| 72723 | Internal Revenue Service | PCORI Excise Tax | 613.80 |
| 73123 | Discovery Benefits | Flex Spending - Reimbursements | 1,190.86 |
| 230707 | Principal Life Insurance | Deferred Compensation Payable | 77,821.17 |
| 230721 | Principal Life Insurance | Deferred Compensation Payable | 75,487.29 |
| 269889 | Master Single Payment Vendor | Refunds | 72.40 |
| 269890 | Acme Tools | Inventory | 810.67 |
| 269891 | Allied Electronics | Inventory | 34.52 |
| 269892 | Amazon Capital Services Inc | Materials & Supplies | 1,479.25 |
| 269893 | Baker Group | Purchased Services | 1,171.79 |
| 269894 | Bearing Headquarters Company | Materials & Supplies | 761.21 |
| 269895 | Bob Brown Chevrolet, Inc. | Vehicle Maintenance Materials | 148.23 |
| 269896 | Master Single Payment Vendor | Refunds | 127.30 |
| 269897 | Master Single Payment Vendor | Refunds | 101.69 |
| 269898 | CTI Ready Mix | Concrete | 1,455.00 |
| 269899 | Capital Sanitary Supply | Inventory | 671.01 |
| 269900 | CenturyLink | Telephone Services | 237.83 |
| 269901 | Cintas | Purchased Services | 2,197.32 |
| 269902 | City Supply Corporation | Inventory | 60.69 |
| 269903 | City of Des Moines | Contractors | 20.00 |
| 269904 | Cleveland Punch & Die Company | Vehicle Maintenance Materials | 71.64 |
| 269905 | Combined Systems Technology, Inc. | Office Equipment | 1,199.00 |
| 269906 | Commercial Supply Co | Inventory | 49.44 |
| 269907 | Des Moines Iron Company | Vehicle Maintenance Materials | 739.53 |
| 269908 | Des Moines Register | Advertising | 1,060.87 |
| 269909 | Doors, Inc. | Materials & Supplies | 477.70 |
| 269910 | Douglas K. Oscarson | Consultants | 1,776.00 |
| 269911 | Fastenal Company | Inventory | 43.94 |
| 269912 | Flow Line Valve and Controls | Inventory | 140.79 |
| 269913 | Master Single Payment Vendor | Refunds | 22.91 |
| 269914 | Graybar Electric Company | Inventory | 1,395.52 |
| 269915 | Hach Chemical Company | Inventory | 629.33 |
| 269916 | Ingersoll Rand | Inventory | 636.39 |
| 269917 | Iowa Division of Labor Services | Purchased Services | 80.00 |
| 269918 | Iowa Prison Industries | Materials & Supplies | 51.00 |
| 269919 | Iowa Public Radio | Advertising | 1,394.00 |
| 269920 | Master Single Payment Vendor | Refunds | 168.49 |
| 269921 | Keystone Laboratories | Purchased Services | 191.00 |
| 269922 | Lawson Products, Inc. | Inventory | 33.84 |
| 269923 | Lindsey Wanderscheid | Mileage | 175.54 |
| 269924 | Logan Contractors Supply, Inc. | Inventory | 1,161.30 |
| 269925 | MSC Industrial Supply Company | Inventory | 134.32 |
| 269926 | Manatts | Materials & Supplies | 170.00 |
| 269927 | McDonald Supply | Materials & Supplies | 1,688.53 |
| 269928 | McMaster-Carr Supply Company | Inventory | 468.09 |
| 269929 | Melissa Goben | Mileage and Materials & Supplies | 106.95 |
| 269930 | Menard's | Materials & Supplies | 58.98 |
| 269931 | Midwest Office Technology, Inc. | Printing & Copies | 992.80 |
| 269932 | Molecular Repair Concepts | Inventory | 480.39 |
| 269933 | Murphy Tractor & Equipment | Vehicle Maintenance Materials | 760.12 |
| 269934 | Nichols Equipment LLC | Contractors | 1,062.00 |
| 269935 | One Source | Purchased Services | 58.00 |
| 269936 | Ottsen Oil Company | Inventory | 561.33 |
| 269937 | P & P Small Engines, Inc. | Materials & Supplies | 23.98 |

**PAYMENTS FOR JULY, 2023**

PeopleSoft Financials Report ID: DWAPR002.sqr

| Check No. | Paid to: | Description | Amount |
|---|---|---|---|
| 269938 | Plumb Supply Company | Inventory | 164.82 |
| 269939 | Premier Safety | Inventory | 1,038.49 |
| 269940 | Propio Language Services | Purchased Services | 808.68 |
| 269941 | Radwell International | Inventory | 219.88 |
| 269942 | Master Single Payment Vendor | Refunds | 71.21 |
| 269943 | Master Single Payment Vendor | Refunds | 132.77 |
| 269944 | Star Equipment, Ltd. | Inventory | 2,044.50 |
| 269945 | Stivers | Vehicle Maintenance Materials | 16.64 |
| 269946 | Storey-Kenworthy Company | Office Supplies | 516.91 |
| 269947 | Straub Corporation | Inventory | 1,282.00 |
| 269948 | Strauss Security Solutions | Purchased Services | 965.62 |
| 269949 | Superior Industrial Equipment | Inventory | 966.34 |
| 269950 | TPx Communications | Internet Connectivity | 723.08 |
| 269951 | Thyssenkrupp Elevator Corporation | Purchased Services | 707.08 |
| 269952 | Total Tool | Inventory | 708.35 |
| 269953 | True North Controls | Inventory | 1,548.78 |
| 269954 | ULINE | Materials & Supplies | 553.30 |
| 269955 | UPS | Delivery/Freight | 19.23 |
| 269956 | USA Bluebook | Inventory | 1,449.49 |
| 269957 | United States Plastic Corporation | Inventory | 83.50 |
| 269958 | VWR International LLC | Inventory | 821.01 |
| 269959 | Van-Wall Group | Vehicle Maintenance Materials | 351.80 |
| 269960 | Vessco | Inventory | 1,220.53 |
| 269961 | White Cap | Inventory | 448.08 |
| 269962 | Aclara Technologies, LLC | Inventory | 4,333.99 |
| 269963 | Air Products | Inventory | 4,735.12 |
| 269964 | Bankers Trust Company | Corporate Credit Card | 5,153.46 |
| 269965 | Bolton & Menk, Inc | Contractors | 6,055.00 |
| 269966 | Bonnie's Barricades | Contractors | 2,549.90 |
| 269967 | CPI International | Inventory | 2,842.09 |
| 269968 | Calgon Carbon Kuraray | Inventory | 63,744.00 |
| 269969 | Chemtrade Chemicals US LLC | Inventory | 18,476.00 |
| 269970 | Crane Sales & Service | Purchased Services | 5,686.70 |
| 269971 | Dixie Petro-Chem, Inc. | Inventory | 27,627.71 |
| 269972 | Electrical Engineering & Equipment Co. | Materials & Supplies | 7,588.30 |
| 269973 | FBG Services | Purchased Services | 11,688.00 |
| 269974 | Gold Standard Diagnostics | Inventory | 5,225.94 |
| 269975 | Grainger, Inc. | Inventory | 3,189.03 |
| 269976 | Gribble, Boles, Stewart & Witosky Law Fi | Legal Fees | 10,384.34 |
| 269977 | I'll Do It | Contractors | 18,292.00 |
| 269978 | IDEXX Laboratories, Inc. | Materials & Supplies | 4,361.36 |
| 269979 | IMEG Corp | Contractors | 24,020.00 |
| 269980 | Iowa Contracting Inc | Asphalt | 3,776.25 |
| 269981 | Iowa One Call | Purchased Services | 5,913.60 |
| 269982 | Kemira Water Solutions, Inc | Inventory | 25,110.00 |
| 269983 | Mail Services LLC | Postage | 9,245.26 |
| 269984 | Mississippi Lime Company | Inventory | 64,497.02 |
| 269985 | Municipal Supply, Inc. | Inventory | 10,022.95 |
| 269986 | Neptune Technology Group Inc | Inventory | 2,590.00 |
| 269987 | DMWW Employee | Purchased Services | 29,615.66 |
| 269988 | Power Seal | Inventory | 4,917.68 |
| 269989 | SVPA Architects Inc | Contractors | 14,291.88 |
| 269990 | Snyder & Associates, Inc. | Contractors | 27,884.09 |
| 269991 | Torgerson Excavating | Plumbing | 12,572.00 |
| 269992 | Truck Equipment, Inc. | Materials & Supplies | 3,389.00 |
| 269993 | Van Meter Industrial, Inc. | Inventory | 4,309.70 |
| 269994 | Wiss, Janney, Elstner Associates, Inc. | Contractors | 25,000.00 |

| Check No. | Paid to: | Description | Amount |
|---|---|---|---|
| 269995 | Master Single Payment Vendor | Refunds | 75.46 |
| 269996 | Master Single Payment Vendor | Refunds | 54.06 |
| 269997 | Master Single Payment Vendor | Refunds | 100.55 |
| 269998 | Master Single Payment Vendor | Refunds | 199.97 |
| 269999 | Master Single Payment Vendor | Refunds | 215.96 |
| 270000 | Master Single Payment Vendor | Refunds | 120.60 |
| 270001 | Master Single Payment Vendor | Refunds | 49.12 |
| 270002 | Master Single Payment Vendor | Refunds | 53.06 |
| 270003 | Master Single Payment Vendor | Refunds | 129.00 |
| 270004 | Master Single Payment Vendor | Refunds | 51.67 |
| 270005 | Master Single Payment Vendor | Refunds | 34.46 |
| 270006 | Master Single Payment Vendor | Refunds | 1,561.63 |
| 270007 | Master Single Payment Vendor | Refunds | 22.75 |
| 270008 | Master Single Payment Vendor | Refunds | 128.53 |
| 270009 | Master Single Payment Vendor | Refunds | 163.63 |
| 270010 | Master Single Payment Vendor | Refunds | 88.62 |
| 270011 | Master Single Payment Vendor | Refunds | 47.38 |
| 270012 | Master Single Payment Vendor | Refunds | 126.58 |
| 270013 | Master Single Payment Vendor | Refunds | 97.40 |
| 270014 | Master Single Payment Vendor | Refunds | 159.94 |
| 270015 | Master Single Payment Vendor | Refunds | 68.45 |
| 270016 | Master Single Payment Vendor | Refunds | 354.94 |
| 270017 | Voided Check | | 0.00 |
| 270018 | Master Single Payment Vendor | Refunds | 86.98 |
| 270019 | Master Single Payment Vendor | Refunds | 132.05 |
| 270020 | Master Single Payment Vendor | Refunds | 151.57 |
| 270021 | Master Single Payment Vendor | Refunds | 111.90 |
| 270022 | Master Single Payment Vendor | Refunds | 106.19 |
| 270023 | Master Single Payment Vendor | Refunds | 60.72 |
| 270024 | Master Single Payment Vendor | Refunds | 156.14 |
| 270025 | Master Single Payment Vendor | Refunds | 8.71 |
| 270026 | Master Single Payment Vendor | Refunds | 119.25 |
| 270027 | Master Single Payment Vendor | Refunds | 707.06 |
| 270028 | Voided Check | | 0.00 |
| 270029 | Master Single Payment Vendor | Refunds | 79.12 |
| 270030 | Master Single Payment Vendor | Refunds | 196.88 |
| 270031 | Master Single Payment Vendor | Refunds | 22.68 |
| 270032 | Master Single Payment Vendor | Refunds | 30.00 |
| 270033 | Master Single Payment Vendor | Refunds | 554.11 |
| 270034 | Master Single Payment Vendor | Refunds | 117.26 |
| 270035 | Master Single Payment Vendor | Refunds | 209.29 |
| 270036 | Master Single Payment Vendor | Refunds | 175.87 |
| 270037 | Master Single Payment Vendor | Refunds | 872.27 |
| 270038 | Master Single Payment Vendor | Refunds | 38.58 |
| 270039 | Master Single Payment Vendor | Refunds | 145.73 |
| 270040 | Master Single Payment Vendor | Refunds | 111.28 |
| 270041 | Master Single Payment Vendor | Refunds | 145.10 |
| 270042 | Master Single Payment Vendor | Refunds | 122.95 |
| 270043 | Master Single Payment Vendor | Refunds | 37.91 |
| 270044 | Master Single Payment Vendor | Refunds | 122.61 |
| 270045 | Master Single Payment Vendor | Refunds | 155.98 |
| 270046 | Master Single Payment Vendor | Refunds | 93.53 |
| 270047 | Master Single Payment Vendor | Refunds | 21.79 |
| 270048 | Master Single Payment Vendor | Refunds | 86.80 |
| 270049 | Master Single Payment Vendor | Refunds | 11.86 |
| 270050 | Master Single Payment Vendor | Refunds | 91.17 |
| 270051 | Master Single Payment Vendor | Refunds | 1,382.11 |

| Check No. | Paid to: | Description | Amount |
|---|---|---|---|
| 270052 | Master Single Payment Vendor | Refunds | 147.52 |
| 270053 | Master Single Payment Vendor | Refunds | 72.01 |
| 270054 | Master Single Payment Vendor | Refunds | 80.13 |
| 270055 | Master Single Payment Vendor | Refunds | 40.11 |
| 270056 | Master Single Payment Vendor | Refunds | 174.73 |
| 270057 | Master Single Payment Vendor | Refunds | 74.53 |
| 270058 | Master Single Payment Vendor | Refunds | 87.05 |
| 270059 | Master Single Payment Vendor | Refunds | 46.44 |
| 270060 | Master Single Payment Vendor | Refunds | 61.89 |
| 270061 | Master Single Payment Vendor | Refunds | 65.01 |
| 270062 | Master Single Payment Vendor | Refunds | 81.53 |
| 270063 | Master Single Payment Vendor | Refunds | 204.72 |
| 270064 | Master Single Payment Vendor | Refunds | 112.89 |
| 270065 | Master Single Payment Vendor | Refunds | 836.80 |
| 270066 | Master Single Payment Vendor | Refunds | 857.02 |
| 270067 | Master Single Payment Vendor | Refunds | 134.09 |
| 270068 | Master Single Payment Vendor | Refunds | 27.59 |
| 270069 | Master Single Payment Vendor | Refunds | 103.26 |
| 270070 | Master Single Payment Vendor | Refunds | 167.53 |
| 270071 | Master Single Payment Vendor | Refunds | 107.48 |
| 270072 | Master Single Payment Vendor | Refunds | 133.58 |
| 270073 | Master Single Payment Vendor | Refunds | 92.49 |
| 270074 | Master Single Payment Vendor | Refunds | 38.32 |
| 270075 | Master Single Payment Vendor | Refunds | 110.19 |
| 270076 | Master Single Payment Vendor | Refunds | 27.77 |
| 270077 | Voided Check | | 0.00 |
| 270078 | Master Single Payment Vendor | Refunds | 110.08 |
| 270079 | Master Single Payment Vendor | Refunds | 66.71 |
| 270080 | Master Single Payment Vendor | Refunds | 142.75 |
| 270081 | Voided Check | | 0.00 |
| 270082 | Master Single Payment Vendor | Refunds | 3,503.76 |
| 270083 | AT&T Mobility | Cell Phones | 113.09 |
| 270084 | Airgas North Central | Tools | 210.60 |
| 270085 | All State Ag Parts | Vehicle Maintenance Materials | 162.19 |
| 270086 | Amazon Capital Services Inc | Materials & Supplies | 1,828.98 |
| 270087 | Ameraflex Sealing Products, Inc | Inventory | 239.78 |
| 270088 | Arnold Motor Supply | Vehicle Maintenance Materials | 325.36 |
| 270089 | BDI Signs Business Designs, Inc | Park Materials | 235.00 |
| 270090 | Bearing Headquarters Company | Inventory | 134.61 |
| 270091 | Bob Brown Chevrolet, Inc. | Vehicle Maintenance Materials | 38.06 |
| 270092 | Breanna Barber | Food & Beverages | 93.54 |
| 270093 | CFI Tire Service | Purchased Services | 306.35 |
| 270094 | CTI Ready Mix | Concrete | 620.00 |
| 270095 | Canon Financial Services INC | Printing & Copies | 394.61 |
| 270096 | Capital City Equipment Company | Vehicle Maintenance Materials | 440.42 |
| 270097 | Capital Sanitary Supply | Inventory | 609.97 |
| 270098 | City Supply Corporation | Inventory | 107.12 |
| 270099 | City of Des Moines | Contractors | 520.00 |
| 270100 | Combined Systems Technology, Inc. | Materials & Supplies | 1,519.82 |
| 270101 | Cortrol Process Systems | Inventory | 933.86 |
| 270102 | Douglas K. Oscarson | Consultants | 1,798.20 |
| 270103 | Dultmeier Sales LLC | Inventory | 153.50 |
| 270104 | Environmental Express | Inventory | 464.22 |
| 270105 | Epsilon ETA | Materials & Supplies | 700.00 |
| 270106 | Erika Hale | Mileage | 88.42 |
| 270107 | Fisher Scientific | Materials & Supplies | 198.33 |
| 270108 | George Lawrence | Training | 185.00 |

**PAYMENTS FOR JULY, 2023**

PeopleSoft Financials Report ID: DWAPR002.sqr

| Check No. | Paid to: | Description | Amount |
|---|---|---|---|
| 270109 | Gilcrest Jewett Lumber Company | Inventory | 315.91 |
| 270110 | Gold Standard Diagnostics | Inventory | 2,287.00 |
| 270111 | Graybar Electric Company | Inventory | 606.46 |
| 270112 | Hach Chemical Company | Inventory | 1,139.38 |
| 270113 | IP Pathways, LLC | Data Processing Equipment | 1,959.46 |
| 270114 | Image Solutions | Office Supplies | 308.05 |
| 270115 | Iowa Department of Natural Resources | Purchased Services | 683.29 |
| 270116 | Iowa Department of Natural Resources | Purchased Services | 33.01 |
| 270117 | J Pettiecord Inc. | Purchased Services | 639.75 |
| 270118 | Keystone Laboratories | Purchased Services | 163.00 |
| 270119 | Lindsey Wanderscheid | Materials & Supplies | 225.58 |
| 270120 | McDonald Supply | Inventory | 18.54 |
| 270121 | McMaster-Carr Supply Company | Inventory | 1,605.55 |
| 270122 | Menard's | Park Materials | 81.33 |
| 270123 | Mid American Energy | Utilities - Electric & Natural Gas | 1,576.15 |
| 270124 | Midwest Wheel Companies | Vehicle Maintenance Materials | 1,149.75 |
| 270125 | Mike Woods | Licenses & Certifications | 83.54 |
| 270126 | P & P Small Engines, Inc. | Materials & Supplies | 607.97 |
| 270127 | Pollard Company | Inventory | 182.25 |
| 270128 | Premier Safety | Inventory | 1,420.25 |
| 270129 | Print Image Solutions, Inc. | Inventory | 37.75 |
| 270130 | Ramco Innovations | Materials & Supplies | 103.75 |
| 270131 | Reppert Rigging & Hauling Co. | Contractors | 400.00 |
| 270132 | Revenue Advantage | Purchased Services | 950.00 |
| 270133 | Roy's Towing and Recovery | Purchased Services | 131.80 |
| 270134 | Seneca Companies | Purchased Services | 2,319.05 |
| 270135 | Springer Pest Solutions DSM | Purchased Services | 147.40 |
| 270136 | Star Equipment, Ltd. | Inventory | 161.60 |
| 270137 | Steve Edwards | Safety Boots | 201.39 |
| 270138 | Stivers | Vehicle Maintenance Materials | 45.00 |
| 270139 | Straub Corporation | Inventory | 2,284.50 |
| 270140 | Terry Monk | Safety Boots | 192.59 |
| 270141 | Total Tool | Inventory | 1,500.60 |
| 270142 | Truck Center Companies | Vehicle Maintenance Materials | 100.39 |
| 270143 | UPHDM Occupational Medicine | Purchased Services | 590.75 |
| 270144 | USA Bluebook | Inventory | 1,791.53 |
| 270145 | Verizon Connect Telo, Inc. | Vehicle Maintenance Materials | 2,010.90 |
| 270146 | Vessco | Inventory | 1,411.52 |
| 270147 | Warren County Engineer | Contractors | 50.00 |
| 270148 | Waste Management of Iowa Inc. | Purchased Services | 825.18 |
| 270149 | Waste Solutions of Iowa | Purchased Services | 1,169.00 |
| 270150 | Air Products | Inventory | 4,762.96 |
| 270151 | AssuredPartners Great Plains LLC | General Insurance Premiums | 19,900.50 |
| 270152 | Baker Group | Contractors | 3,198.27 |
| 270153 | Chuck & Larry's Transmission | Purchased Services | 3,124.07 |
| 270154 | Cintas | Materials & Supplies | 3,821.69 |
| 270155 | City of Alleman | Alleman Payable | 8,691.61 |
| 270156 | City of Cumming | Cumming Payable | 7,819.60 |
| 270157 | City of Pleasant Hill | Billing Service Revenue | 277,099.30 |
| 270158 | City of Runnells | Billing Service Revenue | 6,256.41 |
| 270159 | City of Windsor Heights | Billing Service Revenue | 54,726.48 |
| 270160 | Grainger, Inc. | Vehicle Maintenance Materials | 2,847.61 |
| 270161 | Greenfield Plaza Sanitary Sewer | Billing Service Revenue | 29,905.82 |
| 270162 | HR Green | Contractors | 9,473.25 |
| 270163 | Heartland Business Systems | Purchased Services | 10,601.00 |
| 270164 | HomeServe USA | Billing Service Revenue | 217,827.76 |
| 270165 | Iowa Department of Natural Resources | Purchased Services | 26,971.09 |

| Check No. | Paid to: | Description | Amount |
|---|---|---|---|
| 270166 | Kemira Water Solutions, Inc | Inventory | 25,104.42 |
| 270167 | McClure Engineering Company | Contractors | 12,348.79 |
| 270168 | Mississippi Lime Company | Inventory | 66,436.52 |
| 270169 | Municipal Supply, Inc. | Inventory | 72,211.23 |
| 270170 | Nate Todd Construction | Contractors | 8,870.00 |
| 270171 | Northway Well and Pump Company | Contractors | 151,584.50 |
| 270172 | Ottsen Oil Company | Vehicle Maintenance Materials | 3,278.45 |
| 270173 | Phoenix Security Contractors, LLC | Purchased Services | 22,357.76 |
| 270174 | Polk County | Billing Service Revenue | 64,651.04 |
| 270175 | Polk County Treasurer | Billing Service Revenue | 32,617.87 |
| 270176 | ShiveHattery, Inc. | Contractors | 3,057.50 |
| 270177 | Synagro Central, LLC | Contractors | 182,172.65 |
| 270178 | Univar | Inventory | 9,101.85 |
| 270179 | Urbandale/Windsor Heights Sanitary Dist | Billing Service Revenue | 36,148.41 |
| 270180 | Wellmark Blue Cross & Blue Shield of IA | Group Insurance Premiums | 25,344.90 |
| 270181 | Woodland Lake Estate Association | Woodland Lakes Estates Payable | 4,273.47 |
| 270182 | Master Single Payment Vendor | Refunds | 180.59 |
| 270183 | Master Single Payment Vendor | Refunds | 101.29 |
| 270184 | Master Single Payment Vendor | Refunds | 72.32 |
| 270185 | Master Single Payment Vendor | Refunds | 23.91 |
| 270186 | Master Single Payment Vendor | Refunds | 94.84 |
| 270187 | Master Single Payment Vendor | Refunds | 106.16 |
| 270188 | Master Single Payment Vendor | Refunds | 116.44 |
| 270189 | Master Single Payment Vendor | Refunds | 88.13 |
| 270190 | Master Single Payment Vendor | Refunds | 124.66 |
| 270191 | Master Single Payment Vendor | Refunds | 141.12 |
| 270192 | Master Single Payment Vendor | Refunds | 110.61 |
| 270193 | Master Single Payment Vendor | Refunds | 69.81 |
| 270194 | Master Single Payment Vendor | Refunds | 18.26 |
| 270195 | Master Single Payment Vendor | Refunds | 173.87 |
| 270196 | Master Single Payment Vendor | Refunds | 104.41 |
| 270197 | Master Single Payment Vendor | Refunds | 92.64 |
| 270198 | Master Single Payment Vendor | Refunds | 116.43 |
| 270199 | Master Single Payment Vendor | Refunds | 116.00 |
| 270200 | Master Single Payment Vendor | Refunds | 14.35 |
| 270201 | Master Single Payment Vendor | Refunds | 115.30 |
| 270202 | Master Single Payment Vendor | Refunds | 8.37 |
| 270203 | Master Single Payment Vendor | Refunds | 15.03 |
| 270204 | Master Single Payment Vendor | Refunds | 63.05 |
| 270205 | Master Single Payment Vendor | Refunds | 51.84 |
| 270206 | Master Single Payment Vendor | Refunds | 74.36 |
| 270207 | Master Single Payment Vendor | Refunds | 126.06 |
| 270208 | Master Single Payment Vendor | Refunds | 121.84 |
| 270209 | Master Single Payment Vendor | Refunds | 71.28 |
| 270210 | Voided Check | | 0.00 |
| 270211 | Master Single Payment Vendor | Refunds | 121.37 |
| 270212 | Master Single Payment Vendor | Refunds | 81.09 |
| 270213 | Master Single Payment Vendor | Refunds | 100.40 |
| 270214 | Master Single Payment Vendor | Refunds | 122.57 |
| 270215 | Master Single Payment Vendor | Refunds | 192.19 |
| 270216 | Master Single Payment Vendor | Refunds | 57.04 |
| 270217 | Master Single Payment Vendor | Refunds | 265.72 |
| 270218 | Master Single Payment Vendor | Refunds | 3,046.84 |
| 270219 | Acme Tools | Inventory | 294.12 |
| 270220 | Agriland FS, Inc | Natural Gas | 259.85 |
| 270221 | Airgas North Central | Inventory | 25.08 |
| 270222 | Allied Electronics | Inventory | 1,469.88 |

**PAYMENTS FOR JULY, 2023**

PeopleSoft Financials Report ID: DWAPR002.sqr

| Check No. | Paid to: | Description | Amount |
|---|---|---|---|
| 270223 | Amazon Capital Services Inc | Materials & Supplies | 972.91 |
| 270224 | American Water Works Association | Dues and Memberships | 266.00 |
| 270225 | Armored Knights., Inc | Purchased Services | 528.00 |
| 270226 | Arnold Motor Supply | Vehicle Maintenance Materials | 77.76 |
| 270227 | BDI Signs Business Designs, Inc | Vehicle Maintenance Materials | 252.50 |
| 270228 | Bearing Headquarters Company | Inventory | 162.12 |
| 270229 | Bonnie's Barricades | Contractors | 585.25 |
| 270230 | Brad Adams | Materials & Supplies | 115.17 |
| 270231 | Capital Sanitary Supply | Inventory | 41.16 |
| 270232 | Carquest | Vehicle Maintenance Materials | 2,011.98 |
| 270233 | Central Iowa Ready Mix | Concrete | 591.00 |
| 270234 | CenturyLink | Telephone Services | 102.72 |
| 270235 | Cintas | Purchased Services | 2,314.41 |
| 270236 | City Supply Corporation | Inventory | 44.15 |
| 270237 | City of Des Moines | Contractors | 305.00 |
| 270238 | Colfax Tractor | Vehicle Maintenance Materials | 950.00 |
| 270239 | Commercial Supply Co | Inventory | 310.00 |
| 270240 | Consumer Energy | Electrical Power | 361.44 |
| 270241 | Corrosion Fluid Products | Inventory | 100.14 |
| 270242 | DXP | Inventory | 247.96 |
| 270243 | Davis Equipment Corporation | Purchased Services | 654.46 |
| 270244 | Delta Dental of Iowa | Vision Withholding | 1,124.48 |
| 270245 | Des Moines Iron Company | Vehicle Maintenance Materials | 595.12 |
| 270246 | Douglas K. Oscarson | Consultants | 1,787.10 |
| 270247 | Dultmeier Sales LLC | Inventory | 202.77 |
| 270248 | Electrical Engineering & Equipment Co. | Materials & Supplies | 175.17 |
| 270249 | Endress and Hauser | Inventory | 417.60 |
| 270250 | Fastenal Company | Inventory | 115.74 |
| 270251 | First Choice Coffee | Food & Beverages | 909.50 |
| 270252 | Grainger, Inc. | Inventory | 847.79 |
| 270253 | Graybar Electric Company | Inventory | 478.89 |
| 270254 | HY-VEE | Food & Beverages | 677.68 |
| 270255 | Heartland Business Systems | Purchased Services | 295.00 |
| 270256 | Home City Ice | Park Materials | 755.00 |
| 270257 | I'll Do It | Contractors | 1,399.00 |
| 270258 | IDEXX Laboratories, Inc. | Materials & Supplies | 423.81 |
| 270259 | IP Pathways, LLC | Data Processing Equipment | 12.00 |
| 270260 | Indelco Plastics | Inventory | 356.51 |
| 270261 | Iowa Association of Municipal Utilities | Training | 2,400.00 |
| 270262 | Iowa Environmental Services | Contractors | 25.00 |
| 270263 | John's Tree Service, Inc. | Contractors | 450.00 |
| 270264 | Keystone Laboratories | Purchased Services | 144.25 |
| 270265 | Lawson Products, Inc. | Inventory | 22.12 |
| 270266 | Liberty Tire Recycling Services Iowa | Purchased Services | 494.51 |
| 270267 | MSC Industrial Supply Company | Inventory | 167.90 |
| 270268 | McMaster-Carr Supply Company | Inventory | 785.31 |
| 270269 | Menard's | Vehicle Maintenance Materials | 352.49 |
| 270270 | Mesa Products | Inventory | 198.63 |
| 270271 | Midwest Office Technology, Inc. | Printing & Copies | 21.92 |
| 270272 | Motion Industries | Inventory | 786.72 |
| 270273 | Northern Filter Media Inc | Inventory | 540.80 |
| 270274 | Plumb Supply Company | Materials & Supplies | 1,537.03 |
| 270275 | Pollard Company | Inventory | 114.78 |
| 270276 | Premier Safety | Inventory | 694.03 |
| 270277 | Principal Financial | Purchased Services | 387.50 |
| 270278 | Protex Central, Inc. | Purchased Services | 225.00 |
| 270279 | S & H Electric | Purchased Services | 225.00 |

| Check No. | Paid to: | Description | Amount |
|---|---|---|---|
| 270280 | Scott Manning | Safety Boots | 93.24 |
| 270281 | Strauss Security Solutions | Contractors | 444.70 |
| 270282 | Subsurface Solutions | Distribution Equipment | 668.97 |
| 270283 | The Rotary Club of Des Moines | Dues and Memberships | 283.00 |
| 270284 | The Shredder | Purchased Services | 87.00 |
| 270285 | Tompkins Industries, Inc. | Vehicle Maintenance Materials | 104.42 |
| 270286 | Total Tool | Inventory | 454.82 |
| 270287 | Traffic Logix | Dues and Memberships | 500.00 |
| 270288 | Truck Center Companies | Vehicle Maintenance Materials | 50.66 |
| 270289 | ULINE | Inventory | 210.78 |
| 270290 | UPS | Delivery/Freight | 40.75 |
| 270291 | USA Bluebook | Inventory | 1,466.56 |
| 270292 | Utility Equipment Company | Materials & Supplies | 452.12 |
| 270293 | VWR International LLC | Inventory | 543.30 |
| 270294 | Van Meter Industrial, Inc. | Materials & Supplies | 1,739.00 |
| 270295 | Waste Management of Iowa Inc. | Purchased Services | 2,251.01 |
| 270296 | Waste Solutions of Iowa | Purchased Services | 273.00 |
| 270297 | Air Products | Inventory | 7,085.86 |
| 270298 | Aureon Communications | Internet Connectivity | 3,876.80 |
| 270299 | Baker Electric, Inc. | Contractors | 8,455.00 |
| 270300 | Brockway Mechanical & Roofing Co, Inc. | Contractors | 10,065.25 |
| 270301 | CONVERGEONE, INC | Maintenance Contracts | 11,760.00 |
| 270302 | CPI International | Inventory | 2,841.23 |
| 270303 | CTI Ready Mix | Concrete | 3,340.50 |
| 270304 | Calgon Carbon Kuraray | Inventory | 33,388.00 |
| 270305 | Consolidated Water Solutions | Inventory | 10,723.59 |
| 270306 | Dickinson, Mackaman, Tyler, & Hagen, PC | Legal Fees | 14,320.50 |
| 270307 | Dixie Petro-Chem, Inc. | Inventory | 27,187.41 |
| 270308 | DuBois Chemicals, INC | Inventory | 12,838.02 |
| 270309 | Gold Standard Diagnostics | Inventory | 3,471.98 |
| 270310 | HDR Engineering | Contractors | 8,444.21 |
| 270311 | Hach Chemical Company | Contractors | 6,586.55 |
| 270312 | Iowa Contracting Inc | Asphalt | 3,961.50 |
| 270313 | Kemira Water Solutions, Inc | Inventory | 75,335.58 |
| 270314 | Mail Services LLC | Postage | 16,638.27 |
| 270315 | Mid American Energy | Utilities - Electric & Natural Gas | 393,256.70 |
| 270316 | Mississippi Lime Company | Inventory | 77,286.97 |
| 270317 | Napa Auto Parts | Vehicle Maintenance Materials | 2,733.90 |
| 270318 | Nite Owl Printing | Materials & Supplies | 2,632.32 |
| 270319 | Phoenix Security Contractors, LLC | Purchased Services | 22,340.35 |
| 270320 | Power Process Equipment, Inc. | Inventory | 2,807.17 |
| 270321 | Skarshaug Testing Laboratory | Employee Job Costs | 2,973.03 |
| 270322 | Snyder & Associates, Inc. | Contractors | 57,853.51 |
| 270323 | State Hygienic Laboratory | Purchased Services | 2,519.50 |
| 270324 | Superior Industrial Equipment | Materials & Supplies | 8,293.01 |
| 270325 | Synergy Contracting LLC | Contractors | 132,178.40 |
| 270326 | Thornton Musso & Bellemin Inc | Inventory | 54,490.80 |
| 270327 | Torgerson Excavating | Plumbing | 15,213.00 |
| 270328 | Univar | Inventory | 9,138.46 |
| 270329 | Verizon Wireless Messaging Service | Cell Phones | 4,965.20 |
| 270330 | WRH, Inc. | Contractors | 58,900.00 |
| 270331 | Waldinger Corporation | Contractors | 3,969.88 |
| 270332 | Master Single Payment Vendor | Refunds | 17.32 |
| 270333 | Master Single Payment Vendor | Refunds | 135.09 |
| 270334 | Master Single Payment Vendor | Refunds | 48.61 |
| 270335 | Master Single Payment Vendor | Refunds | 51.23 |
| 270336 | Master Single Payment Vendor | Refunds | 30.67 |

| Check No. | Paid to: | Description | Amount |
|---|---|---|---|
| 270337 | Master Single Payment Vendor | Refunds | 176.55 |
| 270338 | Master Single Payment Vendor | Refunds | 900.95 |
| 270339 | Master Single Payment Vendor | Refunds | 61.73 |
| 270340 | Master Single Payment Vendor | Refunds | 137.57 |
| 270341 | Master Single Payment Vendor | Refunds | 176.51 |
| 270342 | Master Single Payment Vendor | Refunds | 301.82 |
| 270343 | Master Single Payment Vendor | Refunds | 50.90 |
| 270344 | Master Single Payment Vendor | Refunds | 103.46 |
| 270345 | Master Single Payment Vendor | Refunds | 2,069.16 |
| 270346 | Master Single Payment Vendor | Refunds | 42.41 |
| 270347 | Master Single Payment Vendor | Refunds | 14.80 |
| 270348 | Master Single Payment Vendor | Refunds | 144.05 |
| 270349 | Master Single Payment Vendor | Refunds | 21.23 |
| 270350 | Master Single Payment Vendor | Refunds | 163.07 |
| 270351 | Master Single Payment Vendor | Refunds | 200.76 |
| 270352 | Master Single Payment Vendor | Refunds | 165.89 |
| 270353 | Master Single Payment Vendor | Refunds | 237.63 |
| 270354 | Master Single Payment Vendor | Refunds | 55.72 |
| 270355 | Master Single Payment Vendor | Refunds | 15.92 |
| 270356 | Master Single Payment Vendor | Refunds | 137.30 |
| 270357 | Master Single Payment Vendor | Refunds | 95.11 |
| 270358 | Master Single Payment Vendor | Refunds | 96.98 |
| 270359 | Master Single Payment Vendor | Refunds | 83.42 |
| 270360 | Master Single Payment Vendor | Refunds | 131.76 |
| 270361 | Master Single Payment Vendor | Refunds | 170.93 |
| 270362 | Master Single Payment Vendor | Refunds | 72.74 |
| 270363 | Master Single Payment Vendor | Refunds | 91.80 |
| 270364 | Master Single Payment Vendor | Refunds | 194.59 |
| 270365 | Master Single Payment Vendor | Refunds | 179.34 |
| 270366 | Master Single Payment Vendor | Refunds | 182.42 |
| 270367 | A-Tec Recycling Inc. | Purchased Services | 100.00 |
| 270368 | AccuCopy | Contractors | 387.72 |
| 270369 | Accurate Hydraulics & Machine Serv., Inc | Purchased Services | 801.75 |
| 270370 | Acme Tools | Materials & Supplies | 728.85 |
| 270371 | Action Electrical | Contractors | 275.00 |
| 270372 | Agriland FS, Inc | Natural Gas | 155.70 |
| 270373 | Ahlers, Cooney, PC | Legal Fees | 1,510.50 |
| 270374 | Air-Mach Air Compressor & | Inventory | 296.00 |
| 270375 | Allied Electronics | Inventory | 1,480.88 |
| 270376 | American Radiator | Purchased Services | 215.00 |
| 270377 | Baker Group | Contractors | 2,084.00 |
| 270378 | Baldwin Supply Company | Vehicle Maintenance Materials | 36.35 |
| 270379 | Bearing Headquarters Company | Inventory | 142.31 |
| 270380 | Blackburn Manufacturing Company | Inventory | 456.84 |
| 270381 | C. H. McGuiness Company, Inc. | Inventory | 93.37 |
| 270382 | Canon Financial Services INC | Printing & Copies | 1,175.70 |
| 270383 | Capital Sanitary Supply | Inventory | 369.10 |
| 270384 | Cintas | Purchased Services | 2,204.61 |
| 270385 | City Supply Corporation | Materials & Supplies | 218.27 |
| 270386 | City of Des Moines | Concrete | 222.25 |
| 270387 | Clive Power Equipment | Vehicle Maintenance Materials | 94.68 |
| 270388 | Contract Specialty, L.C. | Park Materials | 412.71 |
| 270389 | Core and Main | Inventory | 291.88 |
| 270390 | Cross Precision Measurement | Contractors | 805.00 |
| 270391 | Des Moines Asphalt & Paving Co., Inc. | Asphalt | 303.75 |
| 270392 | Douglas K. Oscarson | Consultants | 1,787.10 |
| 270393 | Dwyer Instruments, Inc. | Inventory | 139.63 |

**PAYMENTS FOR JULY, 2023**

PeopleSoft Financials Report ID: DWAPR002.sqr

| Check No. | Paid to: | Description | Amount |
|---|---|---|---|
| 270394 | Electronic Engineering Company | Purchased Services | 1,414.00 |
| 270395 | First Choice Coffee | Food & Beverages | 460.50 |
| 270396 | Force Fitters | Inventory | 896.75 |
| 270397 | Gaylen Worthington | Materials & Supplies | 15.50 |
| 270398 | Gilcrest Jewett Lumber Company | Inventory | 66.37 |
| 270399 | Graybar Electric Company | Inventory | 1,275.80 |
| 270400 | Home City Ice | Park Materials | 280.00 |
| 270401 | Illinois Mutual & Life Casualty Company | Insurance Withholding | 17.81 |
| 270402 | Ingersoll Rand | Inventory | 442.45 |
| 270403 | Interstate All Battery | Purchased Services | 467.00 |
| 270404 | Iowa Association of Water Agencies | Training | 150.00 |
| 270405 | Iowa Contracting Inc | Asphalt | 2,094.75 |
| 270406 | Iowa Prison Industries | Materials & Supplies | 17.00 |
| 270407 | Johnstone Supply | Materials & Supplies | 263.76 |
| 270408 | Josh Russell | Mileage | 149.34 |
| 270409 | Keystone Laboratories | Purchased Services | 74.50 |
| 270410 | Larry's Window Service, Inc. | Purchased Services | 110.00 |
| 270411 | Logan Contractors Supply, Inc. | Inventory | 266.74 |
| 270412 | MSC Industrial Supply Company | Inventory | 607.58 |
| 270413 | McMaster-Carr Supply Company | Inventory | 605.55 |
| 270414 | Mediacom Business | Internet Connectivity | 454.90 |
| 270415 | Melissa Fuller | Licenses & Certifications | 114.29 |
| 270416 | Menard's | Materials & Supplies | 9.59 |
| 270417 | Midwest Office Technology, Inc. | Printing & Copies | 955.06 |
| 270418 | Midwest Wheel Companies | Vehicle Maintenance Materials | 944.63 |
| 270419 | Murphy Tractor & Equipment | Vehicle Maintenance Materials | 110.46 |
| 270420 | Oldcastle Architectural | Materials & Supplies | 1,063.40 |
| 270421 | Plumb Supply Company | Inventory | 231.68 |
| 270422 | Protex Central, Inc. | Purchased Services | 262.50 |
| 270423 | Star Equipment, Ltd. | Distribution Equipment | 1,261.64 |
| 270424 | Stivers | Vehicle Maintenance Materials | 195.15 |
| 270425 | Subsurface Solutions | Distribution Equipment | 1,617.00 |
| 270426 | Total Tool | Inventory | 76.60 |
| 270427 | U.S. Autoforce | Vehicle Maintenance Materials | 1,114.32 |
| 270428 | ULINE | Vehicle Maintenance Materials | 546.25 |
| 270429 | UPS | Delivery/Freight | 41.55 |
| 270430 | USA Bluebook | Inventory | 778.27 |
| 270431 | USA Safety Supply Corp | Inventory | 58.36 |
| 270432 | VWR International LLC | Inventory | 235.93 |
| 270433 | Van-Wall Group | Vehicle Maintenance Materials | 705.47 |
| 270434 | Veenstra & Kimm, Inc. | Contractors | 1,275.50 |
| 270435 | Vessco | Inventory | 748.67 |
| 270436 | Washer Systems of Iowa | Materials & Supplies | 397.35 |
| 270437 | West Des Moines Water Works | Sewer | 81.50 |
| 270438 | Ziegler Inc. | Vehicle Maintenance Materials | 48.66 |
| 270439 | Aclara Technologies, LLC | Inventory | 78,461.64 |
| 270440 | Air Products | Inventory | 10,921.40 |
| 270441 | Baker Electric, Inc. | Contractors | 25,388.02 |
| 270442 | CONVERGEONE, INC | Maintenance Contracts | 14,709.20 |
| 270443 | CTI Ready Mix | Concrete | 2,615.00 |
| 270444 | City of Cumming | Cumming Payable | 8,390.83 |
| 270445 | Corell Contractors | Contractors | 216,475.55 |
| 270446 | Dixie Petro-Chem, Inc. | Inventory | 18,157.30 |
| 270447 | Electrical Engineering & Equipment Co. | Contractors | 2,601.95 |
| 270448 | Grainger, Inc. | Materials & Supplies | 2,504.06 |
| 270449 | Henkel Construction Company | Contractors | 105,936.76 |
| 270450 | Henkel Construction Company | Contracts Payable | 80,130.92 |

**PAYMENTS FOR JULY, 2023**

PeopleSoft Financials Report ID: DWAPR002.sqr

| Check No. | Paid to: | Description | Amount |
|---|---|---|---|
| 270451 | I'll Do It | Contractors | 8,436.00 |
| 270452 | J & K Contracting LLC | Contracts Payable | 64,917.56 |
| 270453 | Kemira Water Solutions, Inc | Inventory | 37,765.44 |
| 270454 | Mail Services LLC | Postage | 9,507.28 |
| 270455 | Martin Marietta Aggregates | Inventory | 9,239.40 |
| 270456 | Mississippi Lime Company | Inventory | 59,057.81 |
| 270457 | Municipal Supply, Inc. | Inventory | 4,848.40 |
| 270458 | Neptune Technology Group Inc | Inventory | 8,729.30 |
| 270459 | Northway Well and Pump Company | Purchased Services | 76,450.00 |
| 270460 | Perkin Elmer U.S. LLC | Maintenance Contracts | 12,435.00 |
| 270461 | Power Seal | Inventory | 7,553.68 |
| 270462 | Propio Language Services | Purchased Services | 5,282.95 |
| 270463 | Renewable Energy Group | Inventory | 14,373.38 |
| 270464 | Stanley Consultants | Contractors | 3,214.50 |
| 270465 | Strand Associates | Contractors | 15,541.54 |
| 270466 | Synagro Central, LLC | Contractors | 92,520.22 |
| 270467 | Thorpe Water Development | Contractors | 5,800.00 |
| 270468 | Torgerson Excavating | Contractors | 10,900.00 |
| 270469 | Van Meter Industrial, Inc. | Inventory | 8,613.56 |
| 270470 | Verizon Wireless Messaging Service | Cell Phones | 7,897.57 |
| 270471 | Waldinger Corporation | Contractors | 3,526.50 |
| 371559 | ADP, LLC | Purchased Services | 7,768.05 |
| 387698 | Wex Bank | Gasoline | 350.39 |
| 730501 | Wex Bank | Gasoline | 253.47 |
| 743539 | Treasurer State of Iowa | Iowa Water Excise Tax Payable | 263,905.94 |
| 771813 | Treasurer State of Iowa | Iowa State Sales Tax Payable | 163,197.63 |
| 070123 | EBS | Employee Health Premiums | 318,067.10 |
| 070723 | Collection Services Center | Garnishment of Wages | 2,084.02 |
| 070723 | Treasurer State of Iowa | State Withholding Taxes Payable | 29,193.63 |
| 070723 | Internal Revenue Service | Withholding Taxes Payable | 199,684.55 |
| 072123 | Collection Services Center | Garnishment of Wages | 1,725.23 |
| 072123 | Treasurer State of Iowa | State Withholding Taxes Payable | 30,838.54 |
| 072123 | Internal Revenue Service | Withholding Taxes Payable | 209,589.16 |
| 073123 | EBS | Employee Health Premiums | 22,746.78 |
| **TOTAL** | | | **$5,943,958.65** |

CEO APPROVED EXPENDITURES GREATER THAN $20,000
MONTHLY SCHEDULE FOR THE MONTH OF JULY 2023

| Check # | Vendor | Description | Amount | Details |
|---|---|---|---|---|
| 270171 | Northway Well and Pump Company | Contractors | $151,584.50 | $137,622 - LPM ASR - Emergency Repairs<br>Informational item at 12/2022 board meeting |

Des Moines Water Works
Water You Can Trust for Life

**DES MOINES WATER WORKS**
**Board of Water Works Trustees**

Agenda Item No. III-A
Meeting Date: August 22, 2023
Chairperson's Signature ☐ Yes ☒ No

# AGENDA ITEM FORM

**SUBJECT: CEO and General Manager's Spending Authority**

**SUMMARY:**

The CEO's spending authority as set forth in Section 302.3 of the Board Policy Manual, was established in January 2013 and is currently $100,000. Prior to this, it was $40,000, set in 2005. Since 2013, costs have increased 35-40%.

Staff presented a recommendation to increase the CEO's spending and contracting authority to $150,000 at the Finance & Audit Committee meeting on August 1st for expenditures not considered public improvements, such as equipment purchases, smaller maintenance and repair projects, and some consulting projects. Any public improvement exceeding the competitive bid threshold of $100,000 in Chapter 26.3, Iowa Code, will still be approved by the Board per Iowa Code.

Staff has also noted a discrepancy between the January 2013 action taken by the Board and the Board Policy Manual. The action in January 2013 included the following language: "*…Each unbudgeted expenditure that is approved by the CEO and General Manager based on this authority [$100,000] that exceeds $40,000 shall be reported to the Board of Trustees at the next meeting of the Board of Trustees.*" The intent of this language in 2013 was to begin reporting monthly unbudgeted expenditures that exceeded the prior spending threshold of $40,000. When this language was codified in the Board Policy Manual, however, the threshold of $20,000 was used. Current staff believes this reference to $20,000 was an error, although it can be noted it was an error that resulted in a more conservative, cautious approach in reporting. At this time, staff is also recommending that this discrepancy for reporting unbudgeted expenditures be corrected and the Board Policy Manual be amended to include the original $40,000 as intended and approved by the Board in 2013.

The Finance & Audit Committee verbalized support for these proposed changes to the Board Policy Manual. As a result of further discussion at the Finance and Audit Committee, staff is also recommending the CEO spending and contracting authority be reviewed every five years, and that Board Policy also include examples of factors to be considered in that evaluation, including statutory requirements, cost escalation, peer benchmarks, and other relevant considerations. A proposed redline of Section 302.3 of the Board Policy Manual is attached.

As DMWW has the unique position of being the state's largest board-governed water utility, the Des Moines Metropolitan Wastewater Reclamation Authority (WRA) is often used as a peer benchmark to DMWW for these types of policies. The WRA Director has a spending authority of up to $160,000; therefore, the staff recommendation of a CEO spending and contracting authority of $150,000 is reasonably consistent with the WRA's practices.

**FISCAL IMPACT:**

No direct fiscal impact.

**RECOMMENDED ACTION:**

Approve and adopt the proposed revisions to Section 302.3 of the Board Policy Manual effective immediately, and direct staff to amend and restate the Board Policy Manual in the form presented.

**BOARD REQUIRED ACTION:**

Motion to approve and adopt the proposed revisions to Section 302.3 of the Board Policy Manual effective immediately, and direct staff to amend and restate the Board Policy Manual in the form presented.

| | | |
|---|---|---|
| Amy Kahler 8/14/23 | _____ / _____ | 8/17/23 |
| Amy Kahler, CPA (date) | _____ (date) | Ted Corrigan, P.E. (date) |
| Chief Financial Officer | | CEO and General Manager |

Attachments: Redlined Section 302.3 of the Board Policy Manual

301 Statement of Principles.

301.1 It is the policy of the Board of Trustees to recognize and maintain the distinction between activities, which are appropriate to the Board of Trustees as the governing body of the Des Moines Water Works, and those activities, which are to be performed by the administration of the Des Moines Water Works.

301.2 It shall be the policy of the Board of Trustees to refer to administrative staff of the Des Moines Water Works those matters which do not require or involve Board of Trustees policy making, appraisal, evaluative or decision-making activities.

301.3 The administration of the Des Moines Water Works is the responsibility of the administrative staff. The staff shall be held accountable to the CEO, and the CEO in turn to the Board of Trustees. The Board of Trustees may request pertinent information and explanation of administrative action at any time in order for the Board of Trustees to properly fulfill its policy-making functions.

301.4 All final policy making decisions shall be made by the Board of Trustees.

301.5 The Board of Trustees endorses the management team concept for conducting the business of the Des Moines Water Works. The Board of Trustees and the administrative staff shall work together in conducting the business of the Des Moines Water Works.

302 Administrative Team.

302.1 The CEO is the duly appointed chief executive officer of the Des Moines Water Works.

302.2 The CEO may appoint and head an administrative team to carry out administrative duties delegated by the Board of Trustees. The administrative team shall report to the CEO. The structure of the administrative team shall be established and modified from time to time by the CEO.

302.3 The Board of Trustees shall evaluate~~set~~ the CEO's spending and contracting authority approximately every five (5) years and set the CEO's authority considering factors such as statutory requirements, cost escalation, peer benchmarks, and other relevant considerations. The current spending and contracting authority of the CEO is $150,000~~100,000~~ for expenditures that are not public improvements under Iowa Code. Public improvements exceeding the competitive bid threshold in the Iowa Code shall be approved by the Board in accordance with Iowa Code. Each unbudgeted expenditure that is approved by the CEO based on this authority that exceeds $40,000~~20,000~~ shall be reported to the Board of Trustees at the next meeting of the Board of Trustees.

Des Moines Water Works
Water You Can Trust for Life

**DES MOINES WATER WORKS**
**Board of Water Works Trustees**

Agenda Item No. ___III-B_____
Meeting Date: August 22, 2023
Chairperson's Signature ☐Yes ☒ No

# AGENDA ITEM FORM

**SUBJECT:** **Request Authorization to Reimburse Polk County for 2023 Water Works Park Road Repairs**

**SUMMARY:**

- As part of the originally approved budget for 2023, the park roads were scheduled to be repaired as a result of normal wear and tear and damage caused by numerous floods over the years.
- The proposed park road repair project will add a 3-inch asphalt overlay to approximately 3,100 feet of park roads east of the amphitheater. See attached map.
- Each year, Polk County creates a contract to repair and resurface county roads. Because of the large quantities of asphalt in that contract, Polk County receives better prices than Des Moines Water Works (DMWW) would likely get if we bid this contract ourselves with a significantly smaller quantity of asphalt.
- DMWW staff contacted Polk County, and they have again agreed to add this work under their Local HMA Resurfacing contract. Des Moines Asphalt and Paving was the low bidder ($5,770,605) of this contract with Polk County.
- By combining our work with Polk County, DMWW will be able to complete more repairs for the same amount of money. Polk County staff will also inspect this work for DMWW.
- The engineer's estimate for this project is $120,000.

**FISCAL IMPACT:**

Funds for this project will come from the Grounds Capital Work Plan, which has a budget of $110,000. If additional funding is required, it will come from savings in other capital projects or from capital projects that are deferred to capture these funds.

**RECOMMENDED ACTION:**

Authorize staff to reimburse Polk County for the 2023 Water Works Park Road Repairs project.

**BOARD REQUIRED ACTION:**

Motion to authorize staff to reimburse Polk County for the 2023 Water Works Park Road Repairs project.

| | | |
|---|---|---|
| Jessica Barnett 08/17/23 | Kyle A. Danley, P.E. 8-17-23 | Ted Corrigan, P.E. 8/17/23 |
| Jessica Barnett (date) | (date) | (date) |
| Supervisor of Property Management | COO | CEO and General Manager |

Attachments: Site Map


N

NOT TO SCALE

Des Moines Water Works

Water You Can Trust for Life

2023 WATER WORKS PARK ROAD REPAIRS

Des Moines Water Works
Water You Can Trust for Life

**DES MOINES WATER WORKS**
**Board of Water Works Trustees**

Agenda Item No. III-C
Meeting Date: August 22, 2023
Chairperson's Signature ☐ Yes ☒ No

# AGENDA ITEM FORM

**SUBJECT: Request Authorization for CEO and General Manager to Execute Agreement for Lead Service Line Replacement Software**

**SUMMARY:**

- On June 5, 2023, staff issued a request for proposals for lead service line inventory and replacement software.
- The request for proposal was sent to three prospective respondents, all of whom staff have been communicating with over the past year. It was also advertised on our website.
- The RFP included ten specific tasks as part of the project: data import, service line inventory, map, predictive modeling, verification method, mobile applications, customer reporting, lead service line replacements, reporting, and public notifications.
- On June 23, 2023, three proposals were received.
- Each proposal was evaluated by an internal review team consisting of Information Technology and Water Distribution staff. Interviews and demonstrations were conducted with the top two respondents, along with reference checks.
- The internal review team evaluated the proposals based upon project team, firm experience, software capabilities, approach, and fees. Based on this, staff recommend an agreement be executed with BlueConduit.
- The cost for a full implementation is a fixed fee of $231,500 plus estimated consulting fees of $63,000, for a total cost of $294,500, spread over 3 years.
- Staff recommends the Board authorize staff to execute a Professional Services Agreement with BlueConduit in the amount of $294,500 for the lead service line replacement software.

**FISCAL IMPACT:**

Funds for these services will come from the IT capital budget.

**RECOMMENDED ACTION:**

Authorize the CEO and General Manager to execute a Professional Services contract with BlueConduit for implementation costs of lead service line replacement software, contingent upon final negotiation of terms and conditions acceptable to staff and subsequent review by legal counsel.

**BOARD REQUIRED ACTION:**

Motion to authorize the CEO and General Manager to execute a Professional Services contract with BlueConduit for implementation costs of lead service line replacement software, contingent upon negotiation of final terms and conditions acceptable to staff and subsequent review by legal counsel.

| | | |
|---|---|---|
| 8-16-23 / (date) | / | 8/17/23 / (date) |
| Jennifer Puffer, P.E.<br>Director of Water Distribution | | Ted Corrigan, P.E.<br>CEO and General Manager |

Attachments: Lead Service Line Replacement Software/Services Proposal

BlueConduit

# Lead Service Line Replacement Software/Services

PROPOSAL FOR

Des Moines Water Works (DMWW)

June 23, 2023

**BlueConduit**
2531 Jackson Ave, #337
Ann Arbor MI 48103

**blueconduit.com**

## Table of Contents

## Section A: Cover Letter

Mr. Patrick Brunner
Des Moines Water Works
2201 George Flagg Parkway
Des Moines, Iowa 50321

Dear Mr. Brunner and Evaluation Committee Members:

BlueConduit is pleased to present a response to the Request for Proposal for Lead Service Line Replacement Software/Services to Des Moines Water Works (DMWW).

We understand that DMWW is seeking an experienced firm to provide services associated with the development, implementation, and management of DMWW's Compliance Program for the US EPA's Revised Lead and Copper Rule. BlueConduit is a widely known industry leader and expert, using predictive modeling and machine learning to develop lead service line inventory and guide replacement and remediation efforts. Our work is frequently cited by regulatory agencies including the EPA, ASDWA, AWWA, the State of Michigan and the State of New Jersey. For seven years, BlueConduit has supported water utilities in their efforts to provide safer drinking water, beginning with the Flint Water Crisis in 2016.

**Experienced Project Team to support LCRR Compliance:** BlueConduit is proud to be teaming with TruePani to bring best-in-class, comprehensive LCRR compliance support to DMWW for the next three (3) years and beyond. In addition to BlueConduit's expertise in inventory development, predictive modeling and replacement planning, TruePani adds considerable experience with compliance program development and oversight, training, public communications and outreach, sample kit and pitcher/filter distribution, and school and child care sampling.

**Thorough understanding of Lead and Copper Rule Revisions:** The BlueConduit/TruePani team brings a thorough understanding of Lead and Copper Rule Revisions (LCRR) compliance requirements and successful project delivery of all aspects of LCRR. Based on our team's expertise and our collective experience working with more than 200 water systems in 25+ U.S. States, we know what it takes to successfully achieve LCRR compliance. Our extensive experience is documented herein along with three well-known industry case studies, including Flint, MI; Toledo, OH; and Detroit, MI. We are also prepared to support DMWW with the upcoming LCRI, expected to be released later this year.

**Optimizing Efficiency Through a Proven Approach:** Our vast experience on similar regulatory driven projects and programs in small and mid-sized communities, to large metropolitan cities and statewide programs demonstrates that we understand how to tailor our approach, processes, and tools to yield optimal results for DMWW. We are currently delivering these projects across the country and know how to achieve EPA-prescribed tasks within their deadlines by applying our technology and deploying our LCRR-knowledgeable team.

**A commitment to client satisfaction:** The highest quality work, transparency, and timely deliverables are at the center of all BlueConduit and TruePani projects. Included in this submittal, please find our Machine Learning Platform-as-a-Service solution, project approach, experience, and references. We appreciate your consideration and hope to become the DMWW's preferred partners for executing Lead and Copper Rule Revision Compliance services.

| Applicant Organization | Role | Location |
|---|---|---|
| Abernethy Schwartz Partners, LLC DBA “BlueConduit”<br>blueconduit.com | Prime Applicant/Contractor | 2531 Jackson Ave #337<br>Ann Arbor, MI 48103 |
| TruePani<br>truepani.com | Sub Applicant/Contractor | Knoxville, TN 37902 |

Abernethy Schwartz, LLC, DBA “BlueConduit” is a Domestic Limited Liability Company licensed in the State of Michigan.

| Business Point of Contact/Authorized Contract Negotiator |
|---|
| Ian Robinson, President & COO<br>2531 Jackson Ave, #337, Ann Arbor, MI 48103<br>ian@blueconduit.com<br>Phone: 734-519-0675 \| Mobile: 248-761-2005 |

The information contained in this Proposal or any part thereof, including any exhibits, schedules, and other documents and instruments delivered or to be delivered to the DMWW, is true, accurate, and complete. This RFP response includes all information necessary to ensure that the statements therein do not in whole or in part mislead DMWW as to any material facts.

Sincerely,

Ian Robinson, President & COO

**Section B: Company Background**

## BlueConduit

Abernethy Schwartz Partners LLC (DBA "BlueConduit") is an Ann Arbor-based water infrastructure analytics company specializing in predictive analytics for lead service line identification and replacement that started within the University of Michigan in 2016 and independently incorporated in 2019. With a team of nearly 30 dedicated staff members around the U.S., it utilizes intelligent data insights and predictive machine learning methods to support cities and their engineering partners to inventory and replace lead service lines.

BlueConduit's mission and history is rooted in communities burdened by lead contamination in their water supply. During the City of Flint's water crisis in 2016, University of Michigan researchers analyzed city data to provide statistical and algorithmic support to guide decision-making and data collection. This team of researchers invented the approach of using data science and machine learning for lead service line inventory and replacement projects. Those initial insights, combined with seven additional years of work in this space, are built into BlueConduit's current software platform and continue to empower water systems to successfully locate and remove their lead service lines.

BlueConduit now serves more than 200 communities in the U.S. and Canada, and has inventoried over 2 million service lines that serve 4+ million residents. Our list of active project partners include the Rockefeller Foundation, Google.org, the Natural Resources Defense Council (NRDC) and scores of communities and engineering firms. As we continue to grow, BlueConduit remains aligned with the Federal Government's Justice40 Initiative, which sets a goal to invest in communities that are marginalized, underserved, and overburdened by pollution.

BlueConduit is committed to serving its customers with the highest level of professionalism. We track metrics that focus on both operational and organizational efficiencies to support exceptional client experiences and utilize measurements such as CSAT, CES, and NPS to gauge overall customer satisfaction and loyalty. BlueConduit is not involved in any pending litigation and will provide financial statements upon request. No past projects have been terminated by a government entity.

**7**
YEARS EXPERIENCE

**200+**
WATER SYSTEMS SERVED

**2m+**
SERVICE LINES ANALYZED

**80%+**
HIT RATE

## TruePani

BlueConduit's sub-Consultant TruePani, Inc. is an environmental consulting and communications firm specialized in providing comprehensive services related to lead in drinking water. Past clients include state, county, and municipal entities, school districts, non-profits, and private organizations.

TruePani's areas of expertise include:

- Lead and Copper Rule Revisions Compliance
- Water Utilities Services
- State Regulatory Compliance
- Data Management

- Drinking Water Sampling Programs (Compliance and School and Child Care)
- Sample Kit and Pitcher Filter Direct-to-Customer Fulfillment
- Project Management
- Communications and Marketing

TruePani was established in 2016 by a team of civil and environmental engineers and is headquartered in Knoxville, Tennessee, with staff in Tennessee, Georgia, Texas, New York, DC, and Washington. TruePani is 100% female-owned and DBE-certified.

| $10M | | 100,000+ | |
|---|---|---|---|
| *Current Lead in Drinking Water Project Portfolio* | *Local and National LCRR Expertise* | *Lead Samples from School and Child Care Programs* | *Proven Regulatory Compliance* |

## BlueConduit Organizational Chart

Represented in Figure 1.0 is an overview of BlueConduit's management organization, including director and officer positions, names and the reporting structure.

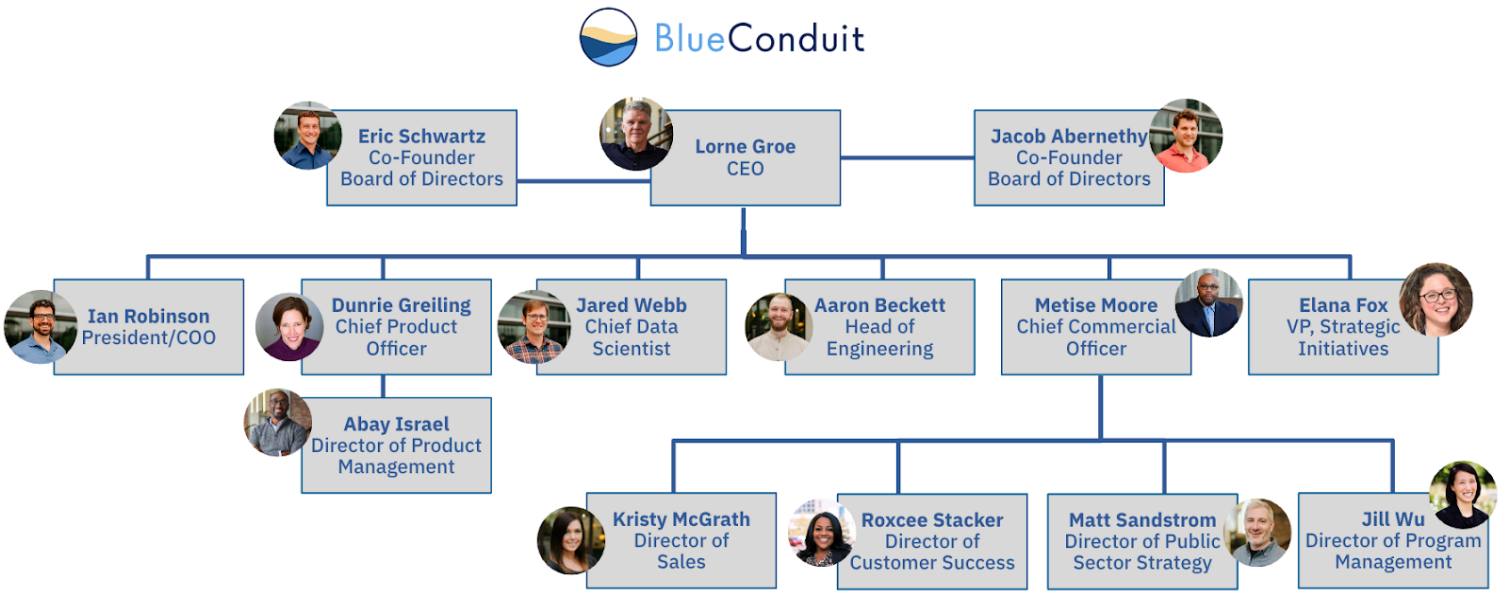


*Figure 1.0 BlueConduit Management Organization Chart*

## Section C: Qualifications and Experience

The BlueConduit/TruePani team has extensive experience managing LSLI projects nationwide. Over the last seven years, BlueConduit's project portfolio includes more than 200 communities in North America. Whether preparing a preliminary LSL Inventory, LSL Replacement Prioritization, or performing statistical analysis on a public water system, BlueConduit has become recognized as an industry leader. Our efforts have helped water systems simplify regulatory compliance, and also secure funding with data backed analytics.

In addition to BlueConduit's expertise in inventory development, predictive modeling and replacement planning, TruePani adds considerable experience with compliance program development and oversight, training, public communications and outreach, sample kit and pitcher/filter distribution, and school and child care sampling.

Examples of previous programs or ideas that would be beneficial for DMWW to consider are outlined in Appendix B. BlueConduit and TruePani's extensive LCRR project experience is outlined in more detail in Section F: History of Similar Projects.

The maps below represent areas of the US and Canada where BlueConduit (Figure 1.2) and TruePani (Figure 1.3) have active and/or completed LSLI contracts with municipalities, utilities, states and engineering firms.

### BlueConduit and TruePani LCRR Project Experience Maps

June 2023
200+ Water Systems and 25+ U.S. States

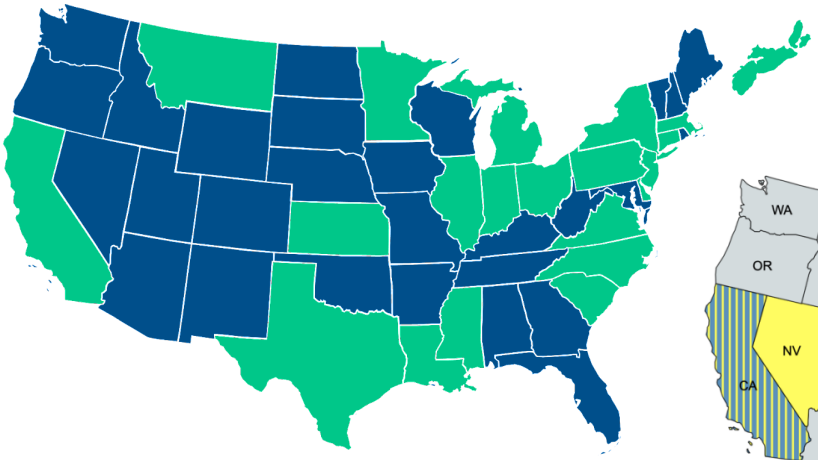

*Figure 1.2 BlueConduit LCRR Project Experience Map*

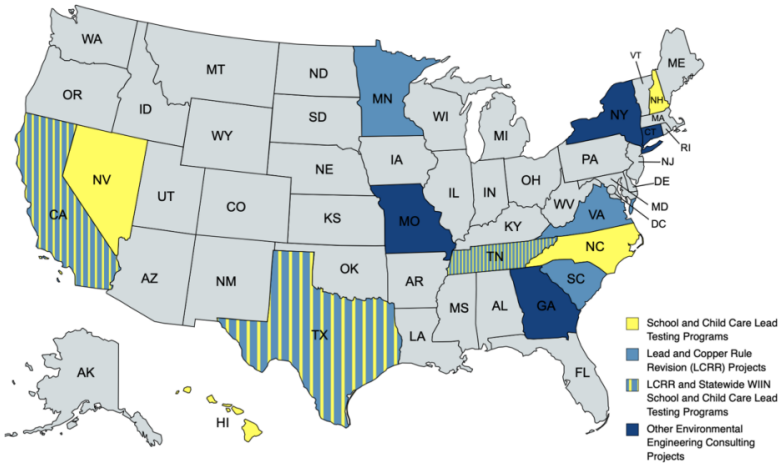


*Figure 1.3 TruePani LCRR Project Experience Map*

## Section D: Project Team

BlueConduit has assembled the right team of experienced technical professionals, specifically selected to address the objectives and tasks you have identified. Our project organizational chart (Figure 1.4) can be found below, with project team bios located on the following pages.

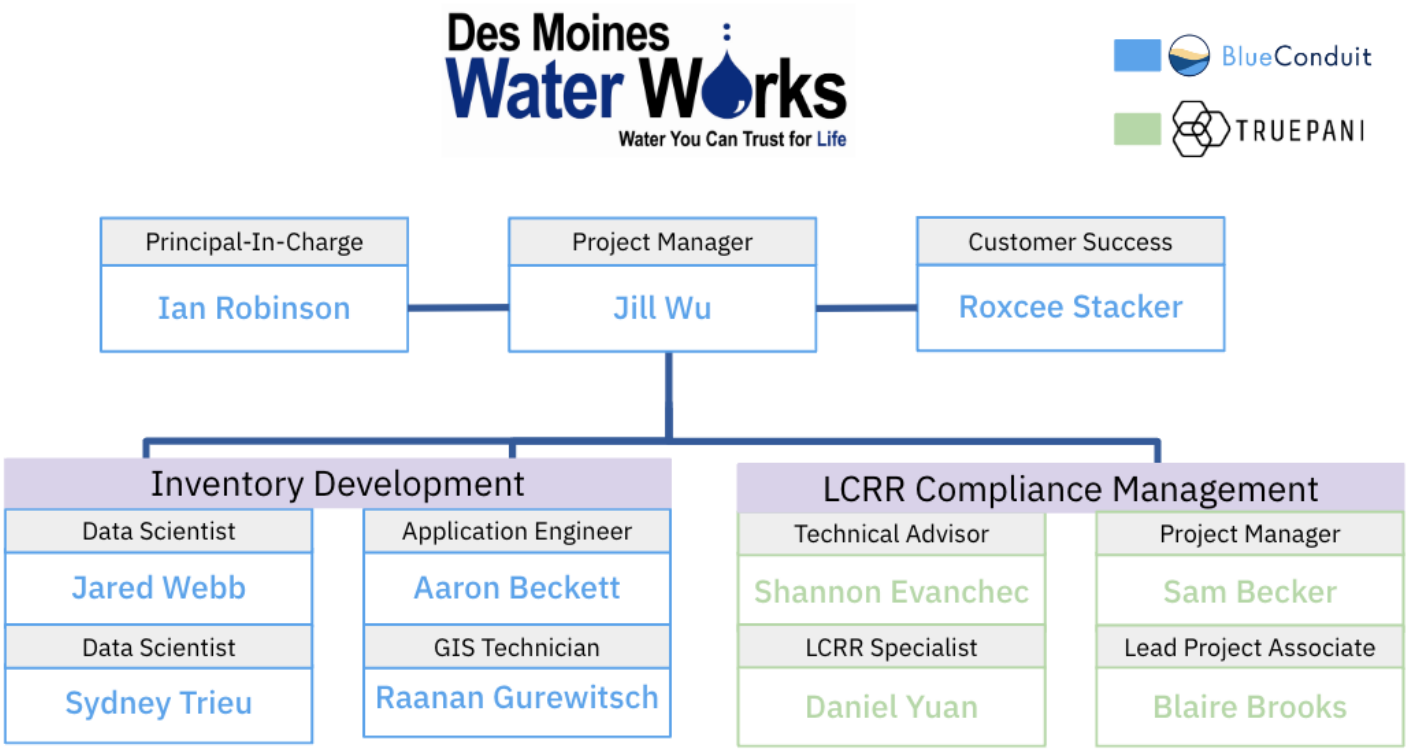


*Figure 1.4 Project Org Chart*

**Ian Robinson (BlueConduit) - Ann Arbor, MI** - will serve as Principal-in-Charge for DMWW, responsible for the contractual fulfillment of all deliverables. Over the past three years, Mr. Robinson has partnered with the Rockefeller Foundation, Google.org, the United States Environmental Protection Agency, and the Natural Resources Defense Council to bring BlueConduit's machine learning and predictive modeling software to distressed communities throughout the U.S. and Canada. He recently co-authored a white paper on data science for LSL replacement with the Association of State Drinking Water Administrators (ASDWA) and is currently leading an effort on the American Water Works Association (AWWA')s Lead in Water Subcommittee to develop a guide for service line replacement plans. Mr. Robinson has an MBA from the University of Michigan School of Business and an MS from the University of Michigan School for Environment and Sustainability. Ian will have 15% of his time dedicated to this project.

**Jill Wu (BlueConduit) - Ann Arbor, MI** - will serve as Project Manager for DMWW. She is a seasoned project manager with nine years of experience assisting local governments with the development and implementation of stormwater, wastewater, solid waste financial modeling and billing data analysis. She has expertise in energy economics, policy, financial and econometric modeling, renewable energy markets, and utility regulation. Prior to joining BlueConduit, Jill served as a project manager for Raftellis, helping local governments and utilities by providing analysis on rate structures, developing financial models, and assessing funding needs. Jill holds an M.S. in Environmental Management in Energy from Duke University and a B.A. in History from Yale University. Jill will have 40% of her time dedicated to this project.

**Roxcee Stacker (BlueConduit)** will be the dedicated Customer Success Manager for DMWW. Roxcee is a Director of

Customer Success with over eight years of experience in the technology industry. She is passionate about helping clients succeed through the use of technology and has a proven track record of success in driving customer acquisition, retention, and growth. She is also an expert in data science, digital communications, and CRM.

**Jared Webb (BlueConduit) - Ann Arbor, MI** - with support from Sydney Trieu, will lead up all data science and predictive modeling activities for DMWW. Mr. Webb's responsibilities include processing and analyzing customer data, managing relationships with technical service partners, and producing Machine Learning models. He has been a member of the BlueConduit team since 2016 and serves as Chief Data Scientist. Mr. Webb received his Undergraduate and Master's Degree in applied mathematics from Brigham Young University, where he focused on the mathematical foundations of machine learning models. Jared has authored several academic papers and publications showcasing the use of machine learning for lead service line identification. Jared will have 40% of his time dedicated to this project.

**Aaron Beckett (BlueConduit) - Ann Arbor, MI -** will serve as the Application Engineer for DMWW, leading up software configuration, training and support. Aaron leads BlueConduit's Engineering team to build and grow the leading SaaS platform for lead service line (LSL) identification and replacement. He also oversees features and functionality in the BlueConduit powered by Esri Lead Service Line Inventory Solution. Prior to BlueConduit, he worked as an Application Engineer at Amazon Web Services, obtaining certifications in Solutions Architecture and Development. Aaron holds a B.S. in Computer science from Michigan State University. Aaron will have 30% of his time dedicated to this project.

**Raanan Gurewitsch (BlueConduit) - Ann Arbor, MI** - will serve as a GIS technician for DMWW. Since January 2020, he has analyzed national data sets on public water systems, including geographic boundaries, regulatory compliance history and demographics to contextualize the market for water utility analytics. Raanan is now developing several prototypes for interactive mapping applications for internal and customer-facing analytics products. Before BlueConduit, Raanan worked at the Public Health Dynamics Laboratory at the University of Pittsburgh where he performed data collection and geospatial data analysis for environmental health research on lead in water, US mortality trends and the Opioid Crisis. He holds a Bachelor of Philosophy in Information Science from the University of Pittsburgh. Raanan will have 25% of his time dedicated to this project.

**Shannon Evanchec (TruePani) - Knoxville, TN -** is the Director of Lead in Drinking Water Programs, with seven years of experience at TruePani. Shannon oversees TruePani's $10M+ lead in drinking water project portfolio, including LCRR and WIIN programs. Shannon holds degrees in Environmental Engineering from Georgia Tech and a Master of Business Administration with a Supply Chain Concentration from the University of Tennessee. For this project, Shannon will serve as a Technical Advisor, and will support the Project Manager in reviewing deliverables and invoices. She has served in similar role for the City of Crossville LCRR Compliance Project, the Virginia Lead and Copper Rule Assistance to Waterworks Project, and the South Carolina Technical Assistance to Small Systems Project. Prior to TruePani, Shannon worked as an Engineering Associate at the Center for Transportation and the Environment on zero emission vehicle technologies, procurement, and funding assistance. Shannon's dedicated time to this project will depend on future tasks.

**Sam Becker (TruePani) - Seattle, WA -** is the Director of Data Management and Lead and Copper Rule Compliance Projects, with seven years of experience at TruePani. Sam holds degrees in Civil Engineering from Georgia Tech and a MPH from the University of Michigan. For this project, Sam will serve as the Project Manager and will be responsible for management and performance under the contract, including the project schedules, monthly invoices, and hosting project meetings. Sam will oversee the LCRR Specialist, LSL Inventory Technicians, Public Outreach & Education and Predictive Modeling Teams. She has served in a similar role on LCRR projects for the City of Crossville, TN, the City of Martinez, CA, and Brownsville Public Utilities Board. Prior to TruePani, Sam worked as an Engineering Consultant at Ramboll, completing Phase I & II site assessments. Sam's dedicated time to this project will depend on future tasks.

**Daniel Yuan (TruePani) - Washington, DC -** is the Managing Consultant bringing over a decade of past work experience working for public water systems to TruePani. Daniel provides expert-level LCRR knowledge and technical assistance to multiple of TruePani's projects. He holds an MPH concentrated in Environmental and Occupational Health sciences, a MS with a focus in genetics, both from the University of Texas Health Science Center, and a BS in Microbiology from the University of Texas at Austin. Daniel will serve as the LCRR Specialist for the project and will be responsible for providing technical assistance to the system concerning all aspects needed to complete the LCRR inventory. He has served in a similar role for Virginia's Lead and Copper Rule assistance to Waterworks, as well as the City of Crossville, TN, and Martinez County, CA. Daniel's dedicated time to this project will depend on future tasks.

## Section E: Project Approach and Management

### Project Understanding

In December 2021, the Environmental Protection Agency (EPA) promulgated the Lead and Copper Rule Revisions (LCRR), the largest and most significant changes to the Rule since its 1991 establishment. The LCRR requires water systems to identify service line materials of all connections, both public and private, within the distribution network. The revisions have also updated customer notification requirements, reassigned compliance tiers, added a lead trigger level (above which LSLs must be replaced), required school and daycare sampling, and required the development of a lead service line replacement plan if lead, galvanized requiring replacement (GRR), or "unknown" service lines are identified in the inventory.

Des Moines Water Works must comply with the LCRR by the compliance deadline of October 16th, 2024. At this time, a final inventory must be provided to the Iowa DNR along with an updated compliance sampling pool, a list of school and daycares served by the system, and a lead service line replacement plan (if required). The replacement plan must detail the system's strategy for identifying unknown lines, the procedure for a full lead service line replacement, customer communications, a replacement goal rate, a premise flushing procedure, a prioritization strategy, and funding strategies for replacements.

IDNR has released guidance on the Service Line Material (SLM) inventory and has developed an inventory template (called "Iowa Lead Service Line Inventory Large File") that must be used to submit the final inventory. IDNR has established that any service lines constructed after 1988 can be designated as "non-lead." Furthermore, IDNR allows for the use of predictive modeling to support inventory development and material classification.

The BlueConduit and TruePani Team is well-versed in EPA's LCRR requirements and has assisted water systems in all aspects of compliance under the Rule. The following scope of work is based on TruePani and BlueConduit's past project experience with projects of similar size, scope, and geographic region.

| Scope Requirement | Team Competency | Team Lead |
|---|---|---|
| 1. LCRR Compliance and LSLR Program Management | ✅ | BlueConduit and TruePani |
| Assist with the development and implementation of a compliance program for the revised USEPA Lead and Copper Rule over the next three (3) years. | | |
| 2. Data Import | ✅ | BlueConduit |
| DMWW data will be imported into the proposed solution. | | |
| 3. Data Export | ✅ | BlueConduit |
| DMWW data can be easily exported from the proposed solution into other existing software applications. The proposed solution includes a direct interface with Esri ArcGIS. | | |
| 4. Service Line Inventory | ✅ | BlueConduit |
| The proposed solution can track and manage the service line material inventory on both the street and house sides. | | |
| 5. Map | ✅ | BlueConduit |
| The proposed solution provides a searchable map that can be shared online and displays verified and predicted service line materials and replacement status. | | |
| 6. Predictive Modeling | ✅ | BlueConduit |
| The proposed solution includes BlueConduit's industry-leading machine learning technology, which provides the likelihood of lead (and other hazardous materials including galvanized, goosenecks etc) for each unknown service line in the distribution system. | | |
| 7. Verification Method | ✅ | BlueConduit |
| The proposed solution allows for tracking inspections and investigations, and the verification method. | | |
| 8. Mobile Applications | ✅ | BlueConduit |
| The proposed solution allows for field data collection, including service line material data entry and replacement status. | | |
| 9. Customer Reporting | ✅ | BlueConduit |
| The proposed solution includes a public-facing survey, allowing customers to self-report their house-side service line material. There is also a Utility-facing dashboard for staff to easily manage and triage submissions. | | |
| 10. Lead Service Line Replacements | ✅ | BlueConduit |
| The proposed solution includes functionality to track and manage lead service lines needing replacement and lead service lines that have been replaced, as well as pitcher filter distribution. | | |
| 11. Reporting | ✅ | BlueConduit |
| The proposed solution includes dashboards and reporting for simplified inventory management and compliance. Format is aligned with the required service line inventory template and meets the minimum data requirements outlined by the Iowa Department of Natural Resources. | | |
| 12. Public Notifications | ✅ | TruePani |
| The proposed solution includes templates for customer notifications. Future tasks for public outreach, communication, sample kit and filter/distribution services can be supported by TruePani. | | |

## BlueConduit Methodology for LSL Inventory Development and Compliance

BlueConduit's machine learning methodology and approach is aligned with the guiding Principles of Data Science for Lead Service Line Inventories and Replacement Programs and in accordance with the EPA Guidance for Developing and Maintaining a Service Line Inventory. BlueConduit also adheres to specific state-level guidance and compliance requirements as applicable to the geographic location of the project.

An accurate service line materials inventory is the foundation of the Lead and Copper Rule Revisions (LCRR). BlueConduit will work with the Utility's existing data to develop its service line material inventory. BlueConduit's methodology produces a full SLM Inventory for all line segments (public and private). The SLM Inventory will display the presence of known materials and predict likely locations of lead service lines, galvanized steel/iron pipes with or without lead goosenecks, and the remaining materials used in the Utility. BlueConduit understands the resource constraints of water utilities and that limited funding and time prohibit the ability to physically inspect service line materials at every address. Our Data Scientists will recommend a targeted inspection list for physical verification to determine the location of lead service lines or galvanized steel pipes with lead goosenecks. The verified service line material data collected from these verification inspections provides essential information to support the BlueConduit predictive model and improve overall model performance. Once verified and updated in the system, the model increases accuracy and refines the overall SLM from unknown to known.

BlueConduit's approach (Figure 1.5) produces a full SLM Inventory for all line segments (public and private). The SLM Inventory will display the presence of known materials and predict likely locations of lead service lines, galvanized steel/iron pipes with or without lead goosenecks, and the remaining materials used in the Utility. BlueConduit understands the resource constraints of water utilities and that limited funding and time prohibit the ability to physically inspect service line materials at every address.


*Figure 1.5 BlueConduit Project Approach*

### Phase 1: Data Collection

To develop a full-service line material inventory, the Utility needs to collect and organize its existing system data and identify its gaps. This requires the Utility to find, organize, analyze, and document existing data sources (structure age, historical records, permit records, etc.) and understand how existing data patterns inform lead service line locations across a large, varied service area. BlueConduit's approach streamlines this process and takes the guesswork out of data analysis.

In developing a comprehensive inventory, BlueConduit analyzes data that can be classified as service lines of "known" materials. This involves reviewing verified service line material records, building codes, city ordinances about banned service line materials, and investigating other sources that provide certainty about pipe materials in the system. This initial step provides a baseline for the inventory and helps set the strategy for reducing "unknowns" for locations where pipe material is not known with high degrees of certainty.

BlueConduit will request information from the Utility to begin the statistical analysis and predictive modeling process. A detailed breakdown of the most commonly used data sources is outlined in Appendix B.

### Minimum Required Data Fields

Verified Service Line Material records and Historical Service Line Material records are absolutely essential to our work. Using ESRI's Lead Service Line Inventory Solution Version 3.0 or higher, BlueConduit will organize and load available data as it relates to the required fields in the designated IDNR Inventory Template. BlueConduit will ingest these data points via direct connection with Esri's Lead Service Line Inventory Solution.

### The predictive model requires, at a minimum, the following fields (Figure 1.6):

- Public Water System ID (PWS ID) Number associated with the service line
- Unique service line ID
- Street address
- Utility side service line material information and replacement data (unknown permitted)
- Customer side service line material information and replacement data (unknown permitted)

| Field | Status | Empty Values |
|---|---|---|
| Public Water System Number (PWSID) | Required | Not Permitted |
| Unique Service Line ID | Required | Not Permitted |
| Street Address | Required | Not Permitted |
| Geometry (Parcel, Service Point Asset) | Required (if available) | Permitted |
| Public Side - Service Line Material | Required (if available) | Permitted |
| Public Side - Replaced (Y/N) | Required (if available) | Permitted |
| Public Side - Install/Replacement Date | Nice to have | Permitted |
| Public Side - Basis of classification | Nice to have | Permitted |
| Private Side - Service Line Material | Required (if available) | Permitted |
| Private Side - Replaced (Y/N) | Required (if available) | Permitted |
| Private Side - Basis of classification | Nice to have | Permitted |
| Private Side - Service Line Material | Nice to have | Permitted |
| Lead connector? | Nice to have | Permitted |
| Lead solder? | Nice to have | Permitted |

*Figure 1.6 Data Essentials Chart*

BlueConduit uses available data inputs to move "unknown" data points to high-probability data points, reducing uncertainty.

Recognizing that all requested information might not be available or accessible in all locations, BlueConduit's data scientists can work with the available data to develop the service line inventory. The data science team works closely with the Utility to train their team on using the platform and the model and reduce communication errors.

BlueConduit's data scientists search for other parcel-level datasets that could provide insights into service line materials. In other communities, BlueConduit has found that the age of the nearest fire hydrant helped predict service line material; the machine learning model can process datasets and identify patterns to determine which data is most

useful in each geography. Only data about parcels and infrastructure will be collected. No personally identifiable or health information will be collected or stored.

### Phase 2: Data Science Analysis and Recommended Inspections

Generating an estimate of the total number of lead service lines in a system or the material at any given address will use information from previously verified service line materials to estimate the materials at service lines of unknown material. The accepted best practice in statistics to be able to make these kinds of estimates is gathering verified service line material data at a random set of homes where the service line material is unknown. Statistically, only such a representative set of verified service points will truly reflect the whole system. This representative randomized sample is critical for understanding the entire system's likely materials.

After preliminary evaluation of the quantity and quality of existing verified data, BlueConduit will generate a targeted list of service lines for the Utility to visually inspect and confirm the existing service line material. This verified data will be used to inform and train BlueConduit's predictive model. The number of homes included in the Recommended Inspection List will depend on factors determined by BlueConduit and the Utility.

BlueConduit estimates that a representative sample of up to 400 of the system's service lines may require visual inspections to reconcile uncertainty. The specific number will be based on BlueConduit's initial analysis and developed in collaboration with the Utility. These inspections will allow an efficient way to verify the reliability of those records.

The specific points/service line segments that will need to be inspected will not be known until BlueConduit conducts its initial analysis of existing data.

Note: BlueConduit does not perform any field verification work. The Utility will cover the cost of field inspections and verifications. Typical verification methods utilize potholing or Hydrovac at the curb box to verify material on the public and private sides of the service line.

### Phase 3: SLM Inventory with Material Predictions

BlueConduit provides a complete picture of the distribution of service line materials across the system. It offers separate material predictions for different segments of the service line and can also provide the likelihood of a galvanized pipe or any material. BlueConduit also supplies supporting documentation for reports submitted to regulators about the methodology.

Upon completing the targeted inspection effort, BlueConduit will integrate the newly verified service line material data into its machine learning model to generate a complete service line material inventory (public and private) with home-level probabilities. These models will use characteristics of homes with verified service line materials including lead and copper  to predict service line material at homes with unverified service lines.

BlueConduit will create an ArcGIS map layer for the project map that shows the likelihood of a point of service having a lead, galvanized, copper, or any other material. BlueConduit will use these methods to generate the probability of having a lead service line on the private side of the service line, the public side, and the joint probability. The predictions can be provided at different levels of detail as needed by the Utility:

- *System-Wide Level* A service-wide estimate can be used to estimate the total number of lead service lines, develop annual capital and operating budgets, and communicate this to customers.

- *Neighborhood Level* If there are indicated lead service lines, neighborhood-by-neighborhood information is ideal for prioritizing resources across the service area. Additionally, this information can be used to develop a public health communication strategy and, potentially, a "Filter Distribution Program."

- *Water main or block-level* Shows the highest likelihood of lead service lines by water main. The Utility can coordinate service line replacement work with other planned infrastructure/asset management work to optimize spending and reduce overall community disruption.

### Measures of Accuracy and Reliability

When using a statistical model, it is important to continually evaluate model performance at every stage of model development and implementation. BlueConduit evaluates the performance of its statistical models with various metrics to ensure accuracy and reliability. One of the most critical metrics of model reliability is the AUROC (Area Under ROC Curve), which says how good a predictive model is at determining a lead pipe from a non-lead pipe. In multiple geographies, our models have accurately made this distinction 95% of the time. We anticipate that by following BlueConduit's methodology and approach, the Utility would achieve a similar level of confidence in communicating its inventory to regulators and consumers.

Another accuracy method leverages the use of a hold-out sample. A holdout sample refers to withholding a random portion of a data set from an initial model and then using the withheld data to assess the statistical model’s performance. Aside from making sure that model probabilities are well-calibrated, it is important to define the accuracy measures used to evaluate and monitor model performance. The key metric to be used for in-the-field true hold-out evaluation is “Hit Rate,” the number of LSLs that were identified divided by the number of attempted replacements regardless of what was discovered. Hit rate can be computed for an entire region or broken down into a specific geography or time.

BlueConduit also validates the model's performance using state-of-the-art metrics (e.g., precision and recall). Read about the tradeoff between Precision vs. Recall in this Article by BlueConduit Chief Data Scientist Jared Webb.

### How BlueConduit Manages Unknowns

Having a large number of service lines of unknown material can make LCRR compliance and managing public communication regarding lead in water more complicated. The public notification requirement states that water systems are required to annually notify residents if the service line material at their address is "unknown." Additionally, "unknowns" count toward the required annual replacement rate in the case of a trigger level or action level exceedance.

BlueConduit's standardized approach to addressing unknown materials allows the Utility's LCRR Team to develop a method to identify service line materials and develop a plan for identifying the lack of lead materials in previously unknown service lines. It is the basis for our highly developed machine learning algorithm. This is done through a combination of BlueConduit's expertise in managing service line replacement projects and leveraging BlueConduit's best-in-class predictive modeling software to generate trusted service line material predictions.

### Phase 4: Updated Predictions and Continuous Validation

The predictive modeling process is most effective when taking an iterative approach, as recommended by the EPA. Each time the Utility verifies service line material through its regular operations, that data can be integrated to update the predictive model and refine the predictions. Leveraging the statistical model's machine learning nature, the model can improve over time with additional data. BlueConduit's team will continue to generate further iterations of the predictive model at a frequency determined in coordination with the Utility for the duration of the project engagement.

### Phase 5: LCRR Compliance

The completed SLM Inventory will be viewable in the Esri ArcGIS Online Project Map with easy reporting tools available to generate reports in the formats mandated under LCRR. This will allow DMWW to quickly access the inventory report and submit it for compliance ahead of the October 2024 deadline.

BlueConduit will also provide a Statistical Analysis Report summarizing the methodology, inputs, model performance, and predicted material results as needed for compliance.

Future tasks for LCRR Compliance could include: LCRR training for DMWW staff, public education and outreach, sampling plan, sample kit and pitcher/filter fulfillment, and testing in schools and child-care facilities.

### Public-Facing Map

Communicating lead service line information helps residents locate their properties and allows them to learn if their property may be affected by lead. The Esri Lead-Safe Community site (Figure 1.7) can be used to communicate lead service line information to residents in the community. It can also include a link to the Water Service Line Material Survey tool which allows residents to report the material of their water service lines, allowing water utilities to better understand their water systems and make improvements to eliminate lead pipes within their water systems.

By leveraging Esri's Community Safe Website App, the final Esri ArcGIS Online Inventory Project Map can be published for public-facing consumption on the Utility's website, revealing only the layers/data fields required for compliance.


*Figure 1.7 Sample Public Facing Map*

## BlueConduit Quality Assurance/Quality Control Plan

A Project Quality Plan (PQP) is at the center of the BlueConduit's quality planning and begins at the onset of a project, placing great emphasis on prevention (Quality Assurance) while maintaining checks and balances for review (Quality Control). Evaluation of overall project performance will occur on a regular basis and at major milestones such as: scoping sessions, intermediate deliverable checks, team lead checks, task leader checks, and final checklist reviews prior to sign-off.Every project the BlueConduit team embarks on requires a Project Quality Plan (PQP). This PQP includes checklists and audits to validate that our deliverables are in compliance with the project's scope of services. A series of internal QA/QC reviews by staff directly working on the project along with staff not directly working on the project provides a check and balance on project documents and deliverables. Deliverables are reviewed for technical accuracy, consistency, and conformance with established best practice standards.

BlueConduit assigns a dedicated Project Manager and Customer Success Manager to ensure successful project delivery and customer satisfaction.

## Esri ArcGIS Collaboration - BlueConduit Smart SLM Inventory

BlueConduit is partnered with Esri to deliver a best-in-class, GIS-based Lead Service Line Inventory software solution (Figures 1.8 and 1.9). By combining the Esri ArcGIS Online technical architecture with BlueConduit's robust data analytics, service line inventory management and compliance is simplified and efficient.

Our predictive model and machine learning capabilities are seamlessly integrated with the Esri Lead Service Line Inventory Solution, which features eleven applications that provide each key user with targeted functionality and can be deployed *free of charge* for existing Esri customers. This solution requires the Utility to retain an active Esri agreement and allocate appropriate creator/editor/viewer licenses to utilize the suite of configured applications.

Features:

- BlueConduit Data Analytics for Smart SLM Inventory
- SLM Inventory Data Management
- ArcGIS Inventory Online Project Map (Hosted by Utility or BlueConduit)
- Public-Facing Inventory Map
- Configurable Dashboards
- Parcel-level Material Predictions (Public and Private Sides)
- Up-to-date inventory with two views displayed on the map: verified and predicted materials.
- Ability to collect and record physical verifications using Esri field-based apps, where saved inspection records are automatically linked to the inventory table
- Water Service Line Material Survey for customer self-reporting

Figures 1.8 and 1.9 below highlight the BlueConduit Powered by Esri LSLI Solution Applications. The applications denoted with a BlueConduit logo reflect where BlueConduit's integration and configuration plays a role within the suite of Esri LSLI tools. The remaining applications are pre-configured out-of-the-box from Esri, available for DMWW to deploy free of charge, and all link back to the same SLM inventory dataset.


*Figure 1.8 Esri LSLI Application Overview*

| BlueConduit Smart SLM Inventory Powered by Esri - LSLI Application Functionality | | |
|---|---|---|
| **Key Users** | **Application** | **Description** |
| **Mapping Technicians** | **Lead Service Line Inventory** | The Lead Service Line Inventory (LSLI) is an ArcGIS Online application designed to help water utilities and other organizations collect, manage, and share information about lead service lines within their area. It includes tools for data collection, mapping, and analysis such as web forms, reports, dashboards, maps, and tables. Custom configuration by BlueConduit adds columns, views and triggers to represent both verified materials and predicted materials. |
| | **Lead Service Line Editor** | The Lead Service Line Editor is an application within to the LSLI system that allows water utilities to upload, access, and manage information about their lead service lines and connect it to relevant data from external sources. The Editor features custom configuration options to support compliance with state and federal lead and copper rule requirements. Using this application, water utilities can make informed decisions about maintenance, repair, and replacement. |
| **Mobile Workers** | **Lead Service Line Field Map** | The Lead Service Line Field Map (for ArcGIS Field Maps), a mobile app for staff and contractors doing material verification in the field. Allows for photo upload. Results are automatically linked to LSLI. |
| **Office Staff** | **Lead Service Line Viewer Web App** | The Lead Service Line Viewer Web App is a browser-based viewer that lets staff with the appropriate credentials view the LSLI. |
| **Engineers** | **Lead Service Line Replacement Manager** | The Service Line Replacement Manager is a web app intended for engineers, construction managers, etc to manage and track info about replacement activities. |
| **Managers** | **Lead Service Line Dashboard** | The Lead Service Line Dashboard is a configurable tool with customizable filters that provides actionable insights on the lead service line inventory, including material verification, predictions, and replacement progress. Custom configuration by BlueConduit provides visualization of both verified and predicted materials. |
| | **Service Line Self-Assessment Manager** | The Service Line Self-Assessment Manager is a web app for Utility staff use to triage information submitted through the Water Service Line Material Survey so they can take the appropriate next action. |
| | **Service Line Self-Assessment Dashboard** | The Service Line Self-Assessment Dashboard is a web app dashboard for Utilities that choose to use the Water Service Line Material Survey. It's functionality allows staff to ensure they are quickly triaging submitted information. |
| **Public** | **Water Service Line Material Survey** | The Water Service Line Material Survey is a web based service line self-assessment tool that allows customers to self-report their private-side service line material. The survey is a data collection form where the submissions will link directly to the LSLI. Citizens can self-report material types and upload photos. The Water Service Line Material Survey link can also be embedded in the Lead Safe-Community Site. |
| | **Lead-Safe Community Site** | The Lead-Safe Community Site is a preconfigured web site that can be embedded into a utilities webpage or be a stand alone website that gives key metrics about the utility's service line inventory and the actions they are taking to identify and remove lead services. Helps utilities comply with LCRR requirements for making the LSLI publicly accessible. Custom configuration by BlueConduit provides visualization of both verified and predicted materials. |
| | **Lead Service Line Public Viewer** | The Lead Service Line Viewer Web App is an intuitive and map-based tool that enables customers to easily access information on lead service lines in their area. This map is also embedded in the Lead-Safe Community Site and helps the utility comply with the LCRR requirements for LSL public availability. |

*Figure 1.9 Esri LSLI Application Functionality*

## Estimated Project Timeline

Figure 2.0 represents a sample project timeline. Actual durations can vary by DMWW resources and participation and will be finalized after project kick-off.

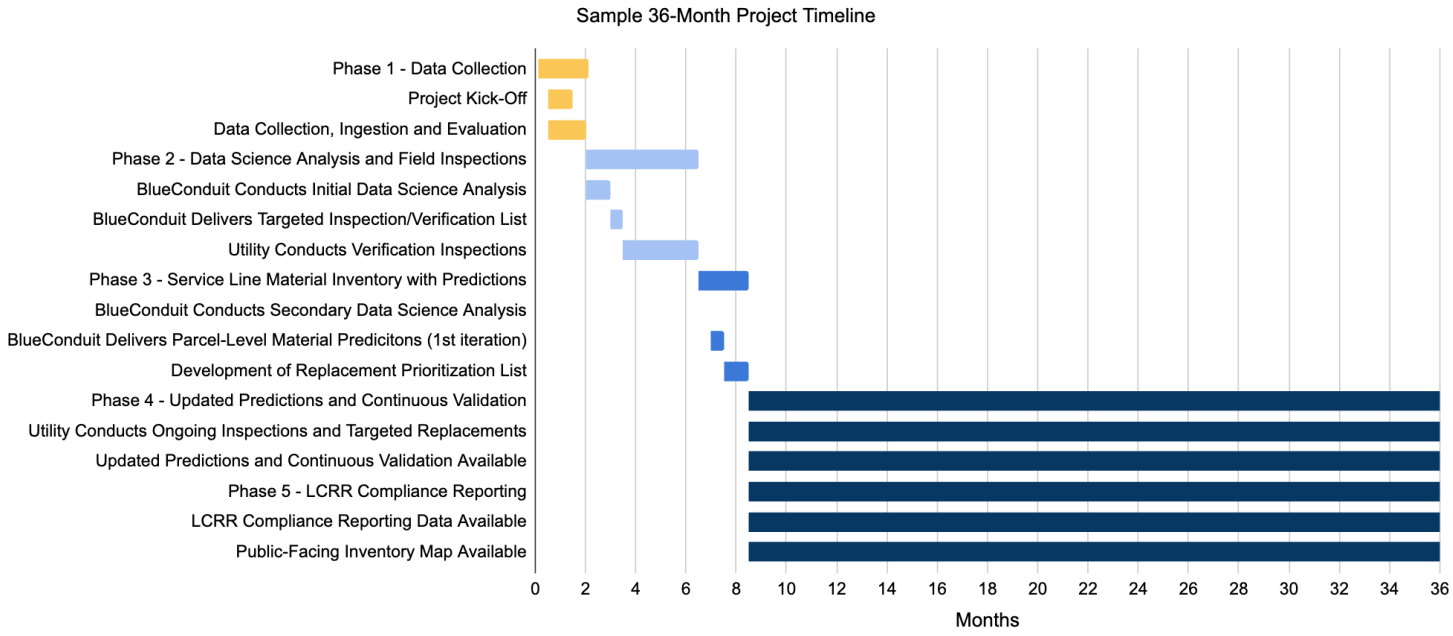


*Figure 2.0 Estimated Project Timeline*

## Section F: History of Similar Projects

### BlueConduit Relevant Project Examples

**Detroit, Michigan**
**Lead Service Line Inventory and Replacement Program**
**2021 - Present**

Contact: Bryan Peckinpaugh
Title: Public Affairs Director
Phone: 313.410.2954
Email: bryan.peckinpaugh@detroitmi.gov

The State of Michigan requires cities to replace all LSLs by 2040. Detroit has nearly 311,000 service lines. In a 2020 state filing, Detroit indicated that the material at 304,000 service lines was unknown. The Detroit Water and Sewerage Department engaged with BlueConduit to develop an actionable, justifiable estimate of the number of lead service lines in order to scope its service line replacement program and meet Lead and Copper Rule service line inventory requirements.

BlueConduit generated a service line inspection list that met EGLE's criteria for using statistical modeling for service line inventories. These addresses were selected in order to ensure representativeness in the training data, geographic distribution of the inspection sites, and reduce potential biases in the predictive model. Inspections are being completed through winter 2023, and results will be analyzed and submitted to EGLE.

**Similarities to DMWW's needs include:** Development of LSL inventory per EPA guidance, parcel level predictions and LSLR replacement strategy.

**Toledo, Ohio**
**Lead Service Line Inventory and Replacement Program**
**2021 - Present**

Contact: Patekka Bannister
Title: Chief of Water Resources
Phone: 419.245.1846
Email: patekka.bannister@toledo.oh.gov

Toledo, Ohio uses BlueConduit for the identification and inventory of their lead service lines. In 2020, Toledo began a program to replace its estimated 30,000 LSLs. At a rate of 1,000 per year, it was expected to take the next 30 years and is estimated to cost $60 million. Toledo has used the information developed by BlueConduit to successfully unlock federal funding for its program. As a result, Toledo has been able to cut 23 years off its timeline for replacing all of its lead service lines, with an updated completion date of 2027.

**Similarities to DMWW's needs include:** Development of LSL inventory per EPA guidance, parcel level predictions, public map, and LSLR replacement strategy.

**Flint, Michigan**
**Lead Service Line Inventory and Replacement Program**
**2016-2020**

Contact: B.G. (ret.) Michael McDaniel
Title: Lead Remediation Program Leader
Phone: 517.993.3945
Email: mcdanielm@cooley.edu

BlueConduit's industry-leading approach was successfully implemented by our team for the Flint, MI project through the first ever development of a predictive LSL model. The City was struggling with a lack of data – they didn't know how much lead they had or where it was located. The BlueConduit team's predictive model first clarified the scale of the challenge. The model initially

predicted 37% of connections as lead service lines; six (6) years and 25,000 replacements later, the actual replacement percentage was determined to be 39%, reflecting an accuracy of approximately 95%.

At the service line level, BlueConduit's predictive model guided Flint's lead identification and replacement efforts, driving a hit rate of over 80% and a $6,085 cost per successful replacement. Comparatively, when this model was not implemented, Flint's hit rate was ~15% and this cost increased to $23,844 per service line.

**Similarities to DMWW's needs include:** Development of LSL inventory per EPA guidance, parcel level predictions, public map, and LSLR replacement strategy.

**Google.org + Rockefeller Foundation**
**Lead Service Line Inventory and Replacement Program**
**2020 - Present**

BlueConduit creates tools for municipalities to report lead service line data to their primacy agencies and communities with a $3 million grant from Google.org as well as support from WE ACT and the National Resource Defense Council (NRDC). The grants fund the development of BlueConduit's publicly accessible technologies, enabling cities and towns of all sizes to record and standardize their lead service line inventories and estimate the cost of replacing this health-threatening component of our water infrastructure. The tool also helps water utilities create public-facing maps aimed at strengthening public communication. To date, seven municipal water systems have or are currently participating in this effort, including Benton Harbor, MI, Detroit, MI, Trenton, NJ, Toledo, OH, Richmond, VA, Buffalo, NY, and New Orleans, LA.

**Similarities to DMWW's needs include:** LSLI standardization support for water systems, public facing maps and development of LCRR public communication tools.

## TruePani Relevant Project Examples

**St. Paul, Minnesota**
**Lead Service Line Replacement Program**
**2023 - Present**

Contact: Kaitlin Swanson
Title: Civil Engineer
Phone: 651.266.6530
Email: kaitlin.swanson@ci.stpaul.mn.us

The City of Saint Paul selected TruePani Inc. to supply and distribute pitcher filters and post-construction water sample kits to customers as part of the "Lead-Free St. Paul" lead service line replacement project. The "Lead-Free St. Paul" program is projected to be a 10-year program with the mission of replacing approximately 26,000 existing lead water service lines within the SPRWS distribution system.

Before a customer receives their full lead service line replacement, TruePani is providing a pitcher filter and filter cartridge to ensure that the customer is not exposed to any potential lead disturbed by the replacement activities. TruePani must coordinate with the City's construction schedule to ensure that all residents receive their pitcher filter before the replacement activities begin. TruePani's database system allows for dynamic changes to the construction schedule that are reflected in the sample kit fulfillment.

Six months after the replacement, TruePani will prepare and deliver customized 1L sample kits to residents. The sample kits include program-branded instructions that were developed by TruePani's communications team, a prelabeled

sample bottle, and a prepaid return shipping label. For ease of return, the sample kits are shipped via USPS and fit easily into a standard mailbox.

TruePani's scope of work also includes developing a Program Dashboard connected to an online database to house all information, including customer accounts, construction schedules, shipment tracking information, and lead analysis results. Outputs from the database are LIMS-compatible. The Program Dashboard will be populated by information stored within the online database and will feature a dynamic, real-time display that shows the return rate of sample bottles to the lab, dates of pitcher filter and sample kit delivery, and water quality testing results.

**Similarities to DMWW's needs include:** Lead and Copper Rule Revision Compliance, fulfillment of sample kits and pitcher filters, development of communication materials.

### New Hampshire DES
### Lead Reduction and Public Education Program
### 2023 - Present

Contact: Lea Anne Atwell
Title: Program Manager
Phone: 603.271.6147
Email: lea.a.atwell@des.nh.gov

TruePani is leading and executing data management, consulting, and communications services for the New Hampshire Department of Environmental Services for the state-wide "Get the Lead Out of Drinking Water Program," centered on assisting participants with identifying and remediating sources of lead in drinking water. TruePani provides technical assistance to water operators, school officials, child care facilities, state officials, and the general public on inventorying outlets, testing for lead at the point-of-use, communicating results to the general public, and identifying private-side service line materials through the use of the Locate Your Line tool.

Under New Hampshire's Senate Bill 247 ("SB247"), all schools and licensed daycare facilities are required to test for lead and complete remediation for sources above the action level. TruePani was responsible for compiling and organizing all test results (23,000+ samples) and remediation data from the first round of the program into a database management system, which will be used as the central system for all subsequent rounds of testing in the State.

A cloud-based database was used to organize and visualize all data collected under the program and to automate all program communications, which include branded educational resources covering basic information on lead in drinking water, inventory and sampling instructions, results notification templates, remediation options, best practices, and funding availability.

High-quality, multi-media educational and instructional content was developed specifically for the New Hampshire program and built upon the State's previous messaging around lead in drinking water. Materials also include instructions for residents to visually inspect the private service line material to expedite identification of service lines that are presently unknown.

TruePani will continue to work with NHDES to increase public awareness of sources of lead in drinking water and best practices, with a contract goal of promoting the Get the Lead Out of Drinking Water program to 500,000+ residents in New Hampshire. The cloud-based database also includes the ability to easily export data into a GIS-ready format, which the state will use to display on a publicly available program dashboard.

**Similarities to DMWW's needs include:** Design and implementation of a public education, outreach, and communications strategy, testing for lead in drinking water at schools and child care facilities via the EPA 3Ts methodology

**Texas Commission on Environmental Quality**
**Lead Testing in Schools and Child Care Program**
**2022 - Present**

Contact: Seth Kramer
Title: Program Specialist
Phone: 512.239.6167
Email: seth.kramer@tceq.texas.gov

The Texas Commission on Environmental Quality selected TruePani through a competitive RFP process as the sole contractor to design and manage their Lead Testing in School and Child Care Program. The scope of Texas's program includes a fully digital approach, where TruePani provides participants with resources to collect drinking water sample, including:

- A customized testing website to identify, organize, and display records
- An interactive web portal to complete program and training
- Fulfillment of sampling kits and laboratory analysis services
- Assistance with the development of an inventory and sampling plan
- Ongoing assistance through direct outreach, web, and phone services
- Public communication and media support (i.e., notification templates, press releases, etc.)

All 26,000+ schools and licensed childcare facilities in the State of Texas are eligible for the program, with priority placed on the most at-risk facilities. TruePani will provide initial and follow up kit fulfillment for all Participants.

The foundation for this effort is provided by the Water Infrastructure Improvements for the Nation (WIIN) Act, Section 2107. TruePani will initiate and implement activities to assist eligible school and child care facilities to train, test, and take action to reduce lead in drinking water.

**Similarities to DMWW's needs include:** Design and implementation of a communications strategy to deliver information on lead in drinking water, fulfillment of sample kits and pitcher filters, collection of school and child care lead in drinking water samples.

**Crossville, Tennessee**
**Lead and Copper Rule Revision Compliance**
**2022 - Present**

Contact: Joe Kerley
Title: Water Manager
Phone: 931.267.1447
Email: joe.kerley@crossvilletn.gov

TruePani is assisting the City of Crossville with developing their lead service line inventory, a compliance and replacement plan, and conducting public education and outreach.

TruePani has developed an initial inventory framework, organized in a database format, that is housing all information examined during the initial review of historical data. After the initial review of the historical data, it was determined that TruePani will staff an in-person technician to assist the City in organizing the large amount physical records to help eliminate the number of unknowns on both the public and private side service lines.

Upon completion of the initial service line inventory, TruePani will develop a plan for compliance with the revised Lead and Copper Rule requirements, including a list of updated Tier sites for compliance sampling and developing a strategy for lead service line replacements, should any be identified.

**Similarities to DMWW's needs include:** Lead and Copper Rule Revision Compliance, Development of communication materials and templates

## Section G: Cost Proposal

Provided below is a comprehensive cost schedule breakdown and explanation of all fees anticipated to meet the requirements of this solicitation.

| **LCRR Compliance Program Development and Implementation - 3 Years** | |
|---|---|
| Consulting estimated at 10 hours per month @ $175 per hour x 36 months | **$63,000.00** |
| **BlueConduit Machine Learning Platform-as-a-Service (Year 1) - Fixed Fee** | **$109,500.00** |
| Deployment: BlueConduit powered by Esri LSLI | |
| Data Ingestion into BlueConduit Machine Learning Platform | |
| Data Science Validation and Analysis | |
| Data Gap Observations and Recommendations | |
| Configuration of BlueConduit LSLI Dashboard (Verified and Predictions) | |
| LSL Replacement Strategy Assistance | |
| LCRR Compliance Support | |
| BlueConduit Machine Learning | |
| BlueConduit - Esri Integration | |
| Recommended Inspection List(s) | |
| SLM Predictions per Service Line (Public and Private) - Unlimited Updates | |
| Replacement Prioritization List(s) | |
| Technical Support and Training | |
| **BlueConduit Machine Learning Platform-as-a-Service - Year 2 - Fixed Fee** | **$68,000.00** |
| **BlueConduit Machine Learning Platform-as-a-Service - Year 3 - Fixed Fee** | **$54,000.00** |
| **3-Year Project Total** | **$294,500.00** |

**Pricing – Key Assumptions**

1. Estimated consulting hours are to provide guidance, support, training and oversight to DMWW's overall compliance program development and implementation. These hours will be billed monthly as services are needed/performed and can be adjusted based on desired level of effort during contract negotiations. Please see further details in Appendix B.
2. The BlueConduit Machine Learning Platform-as-a-Service fee includes all deliverables, services, Esri LSLI software configuration, support and functionality for a turn-key solution to meet the outlined project scope.
3. DMWW will utilize existing Esri licensing to execute the deployment of this solution, including allocation of creator/editor/viewer/field worker licenses to edit and view the LSLI.
4. Renewal in years 2 and 3 provides ongoing access to the integrated BlueConduit solution, including data science analysis and automatic updates to material predictions.
5. Pricing for optional future tasks has been included in Appendix B.

## Deliverables Summary

1. **BlueConduit - Esri LSLI App Configuration:** BlueConduit schema (tables, columns, views, triggers) deployed to the Esri LSL Inventory.
    - ⇒ The BlueConduit Powered by Esri LSLI Solution meets all functional requirements specified in the project scope.
    - ⇒ Includes all functionality necessary to edit, view and manage the LSLI and replacement activities as well as support other functions of LCRR compliance.
    - ⇒ Training will be provided as needed.
2. **Recommended Inspection Lists(s):** After evaluation of existing SLM Inventory data, BlueConduit will generate an initial batch list of targeted locations to conduct initial inspections to verify the public and private side service line materials. **(100-150 locations).**
    - ⇒ BlueConduit's recommended inspection list is based on the quality of verified data provided. If there aren't enough verified lines in a representative sample, BlueConduit will generate a targeted list of lines for the Utility to inform the initial inspections. Those results will shore up the baseline data for the development of the statistical model.
    - ⇒ If the initial batch of inspections does not provide a sufficient increase in the baseline data, BlueConduit will issue a second batch of targeted inspections. We estimate that up to ~400 total inspections may be needed and can be provided in subsequent batches of 50-100 locations each.
    - ⇒ **DMWW** will assume any property inspection and physical validation costs.
3. **BlueConduit Machine Learning Platform-as-Service**
    - ⇒ SLM Inventory Development - to be exported and submitted for IDNR compliance.
    - ⇒ First Iteration: Parcel-level material predictions (public and private side) that indicate the likelihood of lead and other hazardous materials for each service line.
    - ⇒ Access to ongoing updated parcel-level material predictions (public and private side) that indicate the likelihood of lead and other hazardous materials for each service line in the distribution system for the duration of the contract agreement.
4. **BlueConduit Powered by Esri LSLI Dashboard (Verified and Predicted Materials)**
5. **Configured Esri Lead-Safe Community Site - Public-Facing SLM Inventory Map**
6. **Statistical Analysis Report for IDNR Compliance**

**Section H: Required Forms**

Appendix A: Customer Reference Form

# APPENDIX A
# CUSTOMER REFERENCE FORM

*Using the template below, provide references for each software solution proposed.*

*Include three current customers and two prior customers.*

## CUSTOMER REFERENCES - EXISTING CUSTOMERS

| Item | Respondent Response |
|---|---|
| **Client Reference No. 1 - Existing** | |
| Name | City of Detroit, MI (BlueConduit) |
| Number of Employees | 5,000+ |
| Population | 632,000 |
| Contact Name | Bryan Peckinpaugh |
| Contact Title | Public Affairs Director |
| Contact Telephone Number | 313.410.2954 |
| Contact E-mail Address | bryan.peckinpaugh@detroitmi.gov |
| Products, Modules, Services Provided by Respondent | Records Review, Inventory development, predictive modeling, replacement prioritization |
| First Date of Business Relationship with Respondent | 2021 |
| Go Live Date | 2021 |
| Rationale for including the specific reference | Similar project scope and services |
| **Client Reference No. 2 - Existing** | |
| Name | City of South Bend, IN (BlueConduit) |
| Number of Employees | 1,000+ |
| Population | 103,000 |
| Contact Name | Michelle Smith |

| | |
|---|---|
| Contact Title | Director of Water Quality |
| Contact Telephone Number | 574.233.0311 |
| Contact E-mail Address | msmith@southbendin.gov |
| Products, Modules, Services Provided by Respondent | Records Review, Inventory development, predictive modeling, replacement prioritization, online maps and dashboards. |
| First Date of Business Relationship with Respondent | 2022 |
| Go Live Date | 2022 |
| Rationale for including the specific reference | Similar project scope and services |
| **Client Reference No. 3 – Existing** | |
| Name | City of Toledo, OH (BlueConduit) |
| Number of Employees | 500+ |
| Population | 268,000 |
| Contact Name | Patekka Bannister |
| Contact Title | Chief of Water Resources |
| Contact Telephone Number | (419) 245-1846 |
| Contact E-mail Address | patekka.bannister@toledo.oh.gov |
| Products, Modules, Services Provided by Respondent | Records review, Inventory development, predictive modeling, replacement prioritization, online maps and dashboards |
| First Date of Business Relationship with Respondent | 2021 |
| Go Live Date | 2021 |
| Rationale for including the specific reference | Similar project scope and services |

# APPENDIX A
# CUSTOMER REFERENCE FORM

*Continued…*

## CUSTOMER REFERENCES - PRIOR CUSTOMERS

| Item | Offeror Response |
|---|---|
| **Client Reference No. 1 - Prior** | |
| Name | City of Flint, MI (BlueConduit) |
| Number of Employees | 400+ |
| Population | 80,000 |
| Contact Name | B.G. (ret.) Michael McDaniel |
| Contact Title | Lead Remediation Program Leader |
| Contact Telephone Number | 517.993.3945 |
| Contact E-mail Address | mcdanielm@cooley.edu |
| Products, Modules, Services Provided by Respondent | Records Review, Inventory Development, Predictive Modeling, Replacement Prioritization |
| First Date of Business Relationship with Respondent | 2016 |
| Go Live Date | 2016 |
| **Client Reference No. 2 – Prior** | |
| Name | Hawai'i Department of Health Safe Drinking Water Branch (TruePani) |
| Number of Employees | 1,000+ |
| Population | 1.4M |
| Contact Name | Mike Miyahira |
| Contact Title | Engineering Section Supervisor, Lead and Copper Program |
| Contact Telephone Number | (808) 586-4258 |
| Contact E-mail Address | michael.miyahira@doh.hawaii.gov |
| Products / Services Provided by Respondent | TruePani conducted a state-wide program to reduce childhood lead exposure. The project involved meter and service line inspections, outlet inventories, and sample collection at 402 residential daycares, schools, and commercial child care centers across six islands. |
| First Date of Business Relationship with Respondent | 2021 |
| Go Live Date | 2021 |

## APPENDIX B
## RESPONDENT COMMENTS TO REQUIREMENTS

*This section is for the respondent to add comments as needed for specification. Document item number being addressed followed by comment.*

| ITEM REFERENCE # | COMMENTS |
|---|---|
| BlueConduit Powered by Esri LSLI Interface | BlueConduit Powered by Esri LSLI leverages DMWW's existing Esri licensing. No additional software licensing from BlueConduit is required or included herein. DMWW is required to retain an active Esri software licensing agreement to continue using the integrated solution. The project LSLI database and maps can be hosted directly in the DMWW ArcGIS environment, or by BlueConduit if DMWW prefers. DMWW GIS staff will be required to collaborate with BlueConduit on access, permissions, setup and deployment of the configured LSLI solution.<br><br>**Esri LSLI Project Workflow Summary**<br><br>1. DMWW will collect, organize, review, and prepare available data for the service line material inventory.<br>2. Either DMWW or BlueConduit will host the Esri Lead Service Line Inventory (LSLI) solution in their ArcGIS Online (AGOL) account. DMWW/BlueConduit will install the free version of the Esri LSLI Solution Version 3.0 or higher.<br>3. DMWW will provide BlueConduit with access and creator permissions to ESRI LSLI Solution and Inventory Data Layer.<br>4. BlueConduit will coordinate with DMWW to install a routine that adds our custom schema (tables, columns, views, triggers) to the Esri LSLI Solution.<br>5. DMWW will create the ESRI ArcGIS Online Inventory Project Map and BlueConduit will load collected data into the Inventory App.<br>6. BlueConduit will pull the data into the BlueConduit machine learning platform to perform phase 1 of data analysis.<br>7. BlueConduit will produce the initial batch of targeted locations for DMWW to complete physical verification (100-150 locations), which will be statistically representative of the entire system. Subsequent inspections may be recommended as needed, up to ~400 total and can be provided in batches of 50-100.<br>8. DMWW performs physical verifications using the field-based Esri apps. Saved inspection records are linked to the project's inventory table.<br>9. BlueConduit will pull the updated data into the BlueConduit machine learning platform to perform phase 2 of data analysis.<br>10. BlueConduit generates the 1st iteration of the model. The results are delivered directly into the Esri LSLI. Linked fields will automatically have an up-to-date inventory with two views on the Lead Inventory project map: verified and predictions.<br>11. BlueConduit will configure an LSLI dashboard, reflecting verified and predicted service line materials. |

| | |
|---|---|
| | 12. DMWW will perform ongoing field-based inspections and replacements.<br>13. As ongoing inspections and/or replacements have been performed, the newly updated material data will be ingested and analyzed by BlueConduit.<br>14. Service line material predictions will automatically be updated at a frequency determined between BlueConduit and DMWW (weekly, monthly etc.) for the duration of the contract agreement. |
| LCRR Compliance Program Development and Implementation Consulting | Beyond the inventory development and configured software solution that is included in the base project scope - It's difficult to estimate the level of effort needed to support DMWW overall compliance management program for the next three years without having insight into DMWW staff availability / the level of need and future tasks. We have estimated to provide 10 hours of support per month for this project, however we are happy to further define this scope after further discussions during contract negotiations. Additional hours after the LCRI is released may be necessary. We have outlined the hourly consulting rate in the cost proposal. |
| Optional Future Task: LCRR Compliance Training | TruePani can provide training on various LCRR compliance requirements for system staff, billed as an hourly rate of $175 per hour. |
| Optional Future Task: Public outreach | After the compliance deadline of October 16, 2024, a 90th percentile or singular tap sample exceedance of the lead or copper trigger/action level, the system will be subject to additional communication requirements, such as providing educational materials on the website, delivering materials to customers who are most at risk, conduct public education via at least three methods, include a statement on all water bills, and publish press releases.<br><br>TruePani's communications teams can assist Des Moines Water Works in the development of a public outreach and communications strategy to achieve compliance with LCRR requirements post-compliance date. This could include:<br><br>- The development of communications materials such as a remediation guide, sample collection instructions and videos, a program chain of custody, and communication templates for required notifications. Examples from past and current projects include: sample collection instructions and pitcher filter information for St. Paul's Lead Service Line Replacement Program, an action plan for schools and child care facilities to address sources of lead under the Texas Lead Testing in School and Childcare Program, letter templates for facilities participating in the Nevada Lead Testing Program to communicate their lead testing results to parents and guardians, and a training video outlining the LCRR's 1st and 5th liter sample collection procedures for water systems in Virginia.<br><br>- The design of a Program webpage to offer information on school and childcare sampling. An example from a past project includes the New Hampshire Get the Lead Out of Drinking Water Program webpage that TruePani redesigned to support schools and child care facilities in taking advantage of state funding to test for lead in drinking water.<br><br>- Direct outreach to schools and childcare facilities to inform them of the available testing, educational resources, and provide a link to enroll, if interested. All TruePani's lead testing projects include a direct outreach component, whether the participant is a school, childcare facility, or resident. TruePani has a dedicated team of communications |

<table>
<tr><td></td><td>professionals who work to deliver personalized communications, including direct phone calls, customized emails, and a program helpline to answer participant inquiries.<br><br>- The provision of training materials (sample collection instructions, training videos) to schools and child care facilities to instruct on properly collecting samples, filling out the chain of custody, and shipping samples to the lab.</td></tr>
<tr><td>Optional Future Task: Filter and Test Kit Fulfillment</td><td>TruePani's fulfillment center in Knoxville, Tennessee allows for the provision of sample kits and pitcher filters to schools, child care facilities, and residents. Sample kits are EPA-approved and are customized to include: 1L or 250mL HDPE sample bottles, preprinted sample bottle labels, a project chain of custody form, project-specific sample collection instructions, a pre-paid return shipping label, bags, and "Do Not Use" signs to discourage outlet use during the stagnation period.<br><br>TruePani uses a cloud-based database to manage all shipping and logistics of sampling kits to the customer, laboratory, and school and child care facilities. All sample kits include a pre-paid return label for participants to send the sample kit to the laboratory. TruePani's database can track when a participant has not yet sent in their sample kit and can automate reminders to collect samples. TruePani maintains a close relationship with Microbac Laboratories, located in Baltimore, Maryland and certified for lead and copper analysis via EPA method 200.8 by the Maryland Department of the Environment.<br><br>TruePani currently provides pitcher filters for several state-wide lead testing projects and municipalities conducting lead service line replacements. TruePani maintains an inventory of pitcher filters at the Knoxville fulfillment center and is able to ship both sample kits and pitcher filters directly to residents in response to direct requests by the water system or customer.</td></tr>
<tr><td>Optional Future Task: Development of Sampling Program</td><td>TruePani can assist in the development of a proposed sampling monitoring plan in accordance with EPA's revised sampling tiers under the Lead and Copper Rule Revisions. TruePani will use the results of the service line material inventory to provide a list of updated tier sites for compliance sampling and work with DMWW to develop sampling plans, as needed. For the compliance deadline of October 16th 2024, TruePani will develop a list of schools and daycares served by the system and deliver to IDNR. TruePani has extensive experience in school and daycare sampling programs, as the contractor for the TCEQ Lead Testing in School and Child Care Program that targets 26,000+ daycares and public schools statewide, and will use this expertise to prepare a sampling schedule for schools and daycares served by DMWW at a rate of 20% per year. TruePani will work with DMWW to develop outreach materials to offer the sampling to eligible facilities and a system for tracking their responses.</td></tr>
<tr><td>Optional Future Task: Funding Assistance</td><td>BlueConduit and TruePani can assist in helping DMWW with identifying and pursuing funding from both traditional and non-traditional sources. This service offering will add tremendous value as it provides DMWW with a means to potentially cover a substantial amount of LCRR compliance program costs. As eligible funding programs are identified, BlueConduit's service line material predictions will provide EPA-compliant estimates of lead service lines throughout the system along with remediation cost estimates. BlueConduit's clients often utilize the material predictions and cost estimates when applying for replacement funding and financing programs.</td></tr>
<tr><td>Optional Future Task Pricing</td><td>
<table>
<tr><th>Item</th><th>Description</th><th>Quantity</th><th>Unit Cost</th></tr>
<tr><td>LCRR Compliance Program</td><td>Additional consulting hours as needed</td><td>TBN</td><td>$175.00</td></tr>
</table>
</td></tr>
</table>

| | | | |
|---|---|---|---|
| Development and Implementation | | | |
| Optional Task: Public Outreach Strategy | Standard Operating Procedure for public outreach - hourly rate | TBN | $175.00 |
| Optional Task: Pitcher filters | 10-cup pitcher filter and 6-month filter cartridge | TBN | TBN |
| Optional Task: School Sample Kit | Five 250mL sample bottles, labels, instructions, chain of custody, and lead analysis via EPA 200.8 | TBN | $167.00 |
| Optional Task: Childcare Sample Kit | Two 250mL sample bottles, labels, instructions, chain of custody, and lead analysis via EPA 200.8 | TBN | $83.00 |
| Optional Task: Resident Sample Kit (1st liter) | One 1L sample bottle, label, instructions, chain of custody, and analysis for both lead and copper via EPA 200.8 | TBN | $85.00 |
| Optional Task: Resident Sample Kit (1st and 5th liter) | Five 1L sample bottles, labels, instructions, chain of custody, and analysis for both lead and copper via EPA 200.8* | TBN | $118.00 |

**The 1st and 5th liter sample kit cost assumes that while 5 1L bottles are provided to the resident, only two samples are collected and returned. The 1st liter sample is analyzed for copper and the 5th liter sample is analyzed for lead. This may change with the forthcoming LCRI.*

Requested Data Sources

**High-value data sources that are commonly used in an SLM Inventory project include:**

- Recently Verified Service Line Material Records (both Public and Private-side)
- Historical Water Service Line Material Records (both Public and Private-side)
- Information on service line cards, which are primarily incomplete but could have any of the following information on them:
  - Main size
  - Service line size
  - Service line materials
  - Customer account
- Records of previous materials for service line replacements performed over the last two years. (Earlier replacements do not indicate the date of replacement or material.)
- Water main age (this information is the best beginning in the 1950s)
- Historical water service line maps
- Taxable Parcel Records (year built, land size, value, zoning, etc.)
- Construction records (if available)
- Water Account Billing information (if available)
- Water Sampling Test Results (if available)
- Water Main Size and Material (if available)
- Census Data (if available)
- Fire Hydrant Locations and Attributes (if available)
- List of daycare and school facilities and their previous testing records

Des Moines Water Works
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**DES MOINES WATER WORKS**
**Board of Water Works Trustees**

Agenda Item No. III-D
Meeting Date: August 22, 2023
Chairperson's Signature Yes ☐ No ☒

# AGENDA ITEM FORM

**SUBJECT: Request Authorization to Solicit Bids for FDTP Closed Loop Cooling Systems and Establish the Date of the Public Hearing as the Date of the September 2023 Board Meeting**

**SUMMARY:**

- Des Moines Water Works (DMWW) has a generator and diesel driven pump at the Fleur Drive Treatment Plant that are used in emergency situations, as well as run during periods of power curtailment.
- The generators currently use once-through finished water to keep the oil cool and that ultimately discharges back to the gallery system. If the oil coolers on the generator were to have a leak, this could introduce a water quality issue for the gallery.
- DMWW would like to install new closed loop cooling systems on both units to include dry coolers, piping, and pumps on each unit.
- IMEG Corporation is preparing plans, specifications, and contract documents for the FDTP Closed Loop Cooling Systems project.
- The engineer's cost estimate for the FDTP Closed Loop Cooling Systems project including the base bid and Alternate 1 is $1,234,000.
- Staff recommends the Board authorize staff to solicit bids for the FDTP Closed Loop Cooling Systems project and establish the date of the Public Hearing as the date of the September 2023 Board meeting.

**FISCAL IMPACT:**

Funds for this project will come from the 2023 and 2024 FDTP Closed Loop Cooling budgets.

**RECOMMENDED ACTION:**

Authorize staff to solicit bids for the FDTP Closed Loop Cooling Systems project and establish the date of the Public Hearing as the date of the September 2023 Board meeting.

**BOARD REQUIRED ACTION:**

Motion to authorize staff to solicit bids for the FDTP Closed Loop Cooling Systems project and establish the date of the Public Hearing as the date of the September 2023 Board meeting, and direct staff to publish notice as provided by law.

| | | |
|---|---|---|
| Lindsey Wanderscheid 8/17/23 | 8/17/23 | 8/17/23 |
| Lindsey Wanderscheid, P.E. (date) | Michael J. McCurnin, P.E. (date) | Ted Corrigan, P.E. (date) |
| Engineering Supervisor | Director of Engineering Services | CEO and General Manager |

Attachments: None

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**DES MOINES WATER WORKS**
**Board of Water Works Trustees**

Agenda Item No. III-E
Meeting Date: August 22, 2023
Chairperson's Signature ☐ Yes ☒ No

# AGENDA ITEM FORM

**SUBJECT: Request Authorization to Issue Purchase Order for Replacement RO Membranes for Saylorville Water Treatment Plant**

**SUMMARY:**

- The treatment process at the Saylorville Water Treatment Plant (SWTP) consists of pretreatment of alluvial groundwater from the radial collector wells prior to being filtered through ultra-filtration (UF) cartridges. A portion of the filtered water from the UF step is then directed through a reverse osmosis (RO) process to reduce hardness prior to delivery to the distribution system.
- Commissioning of the UF and RO membrane equipment was completed in late December 2010. Treated water from the SWTP was delivered to the distribution system beginning in February of 2011.
- RO membranes typically have an expected life of three to five years. Beyond this time, there is a decrease in performance of the RO membrane in terms of hardness removal.
- Since there are currently four RO skids and the expected life is three to five years, we plan to continue to replace one skid every year, which is 294 membranes.
- On August 3, 2023, three separate proposals were received for the purchase of 294 RO membranes. The proposals included a standard 3-year manufacturer's pro-rated warranty.

| BIDDER | BASE BID 3 YEAR WARRANTY | LEAD TIME |
|---|---|---|
| Consolidated Water Solutions | $161,259 | 7-10 days |
| Evoqua Water Technologies | $183,318 | 1-2 weeks |
| Wigen Water Technologies | $184,015 | 1 week |

- Staff recommends issuing a purchase order in the amount of $161,259 to Consolidated Water Solutions.

**FISCAL IMPACT:**

Funds for replacing the existing RO membranes at the Saylorville Water Treatment Plant will come from the Saylorville Water Treatment Plant 2023 Budget.

**RECOMMENDED ACTION:**

Authorize staff to issue a Purchase Order in the amount of $161,259 to Consolidated Water Solutions for purchase of replacement reverse osmosis membranes, with a 3-year pro-rated warranty, for the Saylorville Water Treatment Plant.

**BOARD REQUIRED ACTION:**

Motion to authorize staff to issue a Purchase Order in the amount of $161,259 to Consolidated Water Solutions for purchase of replacement reverse osmosis membranes, with a 3-year pro-rated warranty, for the Saylorville Water Treatment Plant.

| | | |
|---|---|---|
| Lindsey Wanderscheid, P.E. 8/17/23 (date)<br>Engineering Supervisor | Michael J. McCurnin, P.E. 8/17/23 (date)<br>Director of Engineering Services | Ted Corrigan, P.E. 8/17/23 (date)<br>CEO and General Manager |

Attachment: None

Des Moines Water Works
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**DES MOINES WATER WORKS**
**Board of Water Works Trustees**

Agenda Item No. III-F
Meeting Date: August 22, 2023
Chairperson's Signature ☒ Yes ☐ No

# AGENDA ITEM FORM

**SUBJECT:** **Des Moines Water Works Grounds Maintenance Facility**

**SUMMARY:**

- At its June 2023 meeting, the Board of Water Works Trustees authorized staff to solicit bids for the Des Moines Water Works Grounds Maintenance Facility project. The Public Hearing was established as the date of the August 2023 Board meeting.
- Plans, specifications, and contract documents were taken out by several prospective bidders. Eight (8) bids were submitted on August 10, 2023. The two lowest bids, when adding in all bid alternates, totaled under the estimated cost of $3,790,670 for the base project without addition of alternates. Bid results are as follows:

| BIDDER | BASE BID | ALTERNATES | TOTAL BID |
|---|---|---|---|
| Henkel Construction | $ 3,484,000 | $ 296,900 | $ 3,780,900 |
| Munro Construction | $ 3,355,000 | $ 428,840 | $ 3,783,840 |
| Jensen Builders | $ 3,547,300 | $ 384,560 | $ 3,931,860 |
| Koester Construction | $ 3,599,000 | $ 395,500 | $ 3,994,500 |
| Graphite Construction | $ 3,655,000 | $ 393,500 | $ 4,048,500 |
| Core Construction | $ 3,775,000 | $ 382,500 | $ 4,157,500 |
| Dean Snyder Construction | $ 3,770,000 | $ 428,840 | $ 4,198,840 |
| Estes Construction | Not Read | Non-conforming | |
| Architect's Estimate | $ 3,790,670 | $ 493,400 | $ 4,284,100 |

- Due to the depth of bidder interest and competitive pricing, staff recommends all alternates be accepted and included in the contract scope for this project.

**FISCAL IMPACT:**

Funds for this project will come from the 2023 and 2024 Facility Management budgets.

**RECOMMENDED ACTION:**

Staff recommends the Board award the Des Moines Water Works Grounds Maintenance Facility Contract to Henkel Construction in the amount of $3,780,900 and authorize the Chairperson and CEO and General Manager to execute the contract.

**BOARD REQUIRED ACTION:**

- Public Hearing – Opened by Chairperson for comments from the public regarding the form of contract, plans and specifications, and estimated cost. Chairperson closes hearing.
- Finding that no facility of the kind to be constructed is available for rent or sharing from another agency.
- Motion for adoption of form of contract, plans and specifications, and estimated cost.
- Analysis of bids received.
- Award the Des Moines Water Works Grounds Maintenance Facility Contract to Henkel Construction in the amount of $3,780,900 and authorize the Chairperson and CEO and General Manager to execute the contract.

| | | |
|---|---|---|
| 8-17-23 | 8/17/23 | 8/17/23 |
| Donald K. Staley, P.E. (date)<br>Project Manager | Michael J. McCurnin, P.E. (date)<br>Director of Engineering Services | Ted Corrigan, P.E. (date)<br>CEO and General Manager |

Attachment: 28E.18 Finding

**Section 28E.18 Finding**

To: The Board of Water Works Trustees
of the City of Des Moines, Iowa

Project: Des Moines Water Works Grounds Maintenance Facility ("Project")

As a result of ongoing contacts with area water agencies, I am familiar with the facilities that exist for water service in the Central Iowa area, including the area of the Project.

The development of the Project takes into account regional planning of water infrastructure needs and is fully consistent with that planning. As a result, the Project reflects appropriate coordination of existing infrastructure utilization among area water utilities.

There are no suitable facilities available for rent or sharing in lieu of the Project.

Dated: 8/17, 2023

Michael J. McCurnin, P.E.

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**DES MOINES WATER WORKS**
**Board of Water Works Trustees**

Agenda Item No. III-G
Meeting Date: August 22, 2023
Chairperson's Signature ☐ Yes ☒ No

# AGENDA ITEM FORM

**SUBJECT: Environmental Review of Saylorville Water Treatment Plant Transmission Improvements**

**SUMMARY:**

- To allow the 10 MGD expansion to occur at Saylorville Water Treatment Plant, two transmission elements (DT-20-08 and DT-20-09) were identified to be constructed. The Board approved a Professional Services Agreement with Snyder and Associates for design of the transmission mains in November of 2022.
- The project costs are intended to be funded or reimbursed through a loan from the State Revolving Fund (SRF).
- As a part of the SRF loan application process, the Iowa Department of Natural Resources (IDNR) performs an environmental review for the project(s). Once the environmental review is completed, the borrower must hold a public hearing to inform the public of the project impacts and provide a forum for the public to voice input.
- The IDNR has completed the environmental review for the two transmission main projects and issued a finding of no significant impact. The full Environmental Information Document is attached. DMWW must now hold a public hearing to continue the SRF loan application process.

**FISCAL IMPACT:**

There is no fiscal impact associated with this item, but holding the public hearing is required to pursue the SRF financing once the projects have bid.

**RECOMMENDED ACTION:**

Authorize staff to report that a public hearing was held on the Saylorville Water Treatment Plant Transmission Improvements projects environmental review.

**BOARD REQUIRED ACTION:**

- Public Hearing – Opened by Chairperson for comments from the public regarding the environmental review of the Saylorville Water Treatment Plant Transmission Improvements projects.
- Motion to close the public hearing and authorize staff to report that a public hearing was held.

| | | |
|---|---|---|
| Jonathan Mouw 08/17/23 | 8/17/23 | 8/17/23 |
| Jonathan Mouw, P.E. (date) | Michael J. McCurnin, P.E. (date) | Ted Corrigan, P.E. (date) |
| Engineering Supervisor | Director of Engineering Services | CEO and General Manager |

Attachments: Environmental Information Document and DMWW Transmission Revised Maps

**Why You Should Read This**: The document below reviews the environmental impact likely from a project. This project is planned to be federally funded through your tax dollars; therefore, you are entitled to take part in its review. If you have concerns about the environmental impact of this project, raise them now. We encourage public input in this decision making process.

# IOWA STATE REVOLVING FUND
# ENVIRONMENTAL INFORMATION DOCUMENT

## PROJECT IDENTIFICATION

**Applicant:** Des Moines Water Works - Transmission
**County:** Polk
**State:** Iowa

**SRF Number:** FS-77-23-DWSRF-075
**Iowa DNR Project Number:** W 2022-0672

## COMMUNITY DESCRIPTION

**Location:** The Des Moines Water Works (DMWW) is an independently operated municipal utility providing drinking water to more than 500,000 customers in the Des Moines and surrounding metropolitan area. Over 20 central Iowa cities, rural water districts, and other entities located in Polk, Warren, Madison, and Dallas counties are served by DMWW. Des Moines is centrally located in Iowa.

**Population:** The population served by the DMWW System was estimated in 2015 to be 538,312 persons. Year 2015 will serve as the base year for analysis. Population and demand projections were analyzed for 5-year intervals between 2015 and 2040. Projected population for 2025 was estimated at 661,339 persons. Projected population for 2040 was estimated at 835,342 persons.

**Project Background:** These two water main projects are part of a much larger Long Range Plan 2017 (LRP). In this plan, the existing water distribution system was analyzed to identify gaps and recommend improvements to meet the projected growth expected. There are approximately 1,434 miles of active water mains ranging from 2 to 60 inches in diameter in the DMWW system. Pipe materials include PVC, cast iron, ductile iron, and pre-stressed concrete cylinder pipe among other less common types. The LRP included a hydraulic analysis of the system and results of the modeling process to better determine opportunities for improvement; multiple scenarios were considered related to increasing supply, pressure, velocity and headloss within specific pipes, system pumping and storage, and fire flow needs. Recommendations for system improvements were developed for the planning years 2020, 2025, 2030, 2035, and 2040 for the three major supply improvement alternatives.

According to the LRP, DT-20-08 (north project location) and DT-20-09 (south project location) are two of many high priority improvements; these two were scheduled to be completed between 2021 and 2025. DT-20-08

will provide an improved connection from the Saylorville water treatment plant (SWTP) to the transmission network to more fully utilize the production capacity of the SWTP to the distribution system. DT-20-09 will allow both SWTP and the Fleur Drive Water Treatment Plant (FDWTP) to supply more reliable flows and volumes to the northwest region of the transmission network.

**PROJECT DESCRIPTION**

**Purpose:** The purpose of this project is to make improvements to the water distribution system to improve reliability and to improve system efficiency to safely and reliably operate the Des Moines Water Works system in this area for at least the next 20 years.

**Proposed Improvements:** The project includes construction of two segments of new transmission water main, DT-20-08 and DT-20-09, which were identified in the DMWW Long Range Plan as key improvements necessary to address critical restrictions in the core transmission main network. DT-20-08 consists of the construction of approximately 11,300 feet of 36-inch to 48-inch diameter transmission main. The main will connect to the existing feeder main from the SWTP at 62nd and Beaver and extend to the interconnection with the existing feeder main located north of the intersection of Merle Hay Road and Interstate 80/35.

DT-20-09 consists of the construction of approximately 4,700 feet of 24-inch diameter transmission main. The main will connect to the existing feeder main at Merle Hay Road and Hickman Road and extend westerly along Hickman to the interconnection with the existing feeder main at the intersection of 70rd Street and Wilshire Blvd. In the block east of Rocklyn, the pipe is proposed to be located in the east-bound lane if DOT approval can be reached, but if not, it will be located to the south of Hickman. No work will be conducted within the block east of Rocklyn along the north side of Hickman.

**ALTERNATIVES CONSIDERED**

**Alternatives Considered:** The alternatives considered in the Long Range Plan 2017 primarily centered around alterations to existing treatment plants to allow for capacity expansion or construction of a new treatment plant and how, given those options, the rest of the distribution system would best adjust to the changed pressures and volumes to maintain quality and quantity to existing customers.

**Reasons for Selection of Proposed Alternative:** The No-Action alternative is not viable due to expected changes in demand over the entire DMWW system. Increasing production capacity options correlated to necessary improvements to distribution/storage. Extensive hydraulic modeling helped to select the best options to maintain or improve system performance for all customers.

**MEASURES TAKEN TO ASSESS IMPACT**

**Coordination and Documentation with Other Agencies and Special Interest Groups:** The following Federal, state and local agencies were asked to comment on the proposed project to better assess the potential impact to the environment:

U.S. Army Corps of Engineers
U.S. Fish and Wildlife Service
State Historical Society of Iowa (State Historical Preservation Office)
Iowa DNR Conservation and Recreation Division
Iowa DNR Flood Plain Management Section

Citizen Band Potawatomi Indian Tribe
Flandreau Santee Sioux
Ho-Chunk Nation
Iowa Tribe of Kansas and Nebraska
Iowa Tribe of Oklahoma
Kickapoo Tribe in Kansas
Kickapoo Tribe of Oklahoma
Lower Sioux Indian Community Council
Miami Tribe of Oklahoma
Omaha Tribal Council
Osage Tribal Council
Otoe-Missouria Tribe
Pawnee Nation of Oklahoma
Peoria Tribe of Indians of Oklahoma
Ponca Tribe of Indians of Oklahoma
Ponca Tribe of Nebraska
Prairie Band Potawatomi Nation
Prairie Island Indian Community
Sac & Fox Nation of Mississippi in Iowa
Sac & Fox Nation of Missouri
Sac & Fox Nation of Oklahoma
Santee Sioux Nation
Shakopee Mdewakanton Sioux Community
Sisseton-Wahpeton Oyate
Spirit Lake Tribal Council
Three Affiliated Tribes Mandan, Hidatsa & Arikara Nations
Upper Sioux Tribe
Winnebago Tribal Council
Yankton Sioux Tribal Business and Claims Committee
Des Moines Historic Commission

No adverse comments were received from any agencies. Conditions placed on the applicant by the above agencies in order to assure no significant impact are included in the Summary of Reasons for Concluding No Significant Impact section.

**ENVIRONMENTAL IMPACT SUMMARY**

**Construction:** Traffic patterns within the community may be disrupted and above normal noise levels in the vicinity of the construction equipment can be anticipated during construction and should be a temporary problem. Adverse environmental impacts on noise quality will be handled by limited hours of contractor work time during the day. Other adverse environmental effects from construction activities will be minimized by proper construction practices, inspection, prompt cleanup, and other appropriate measures. Areas temporarily disturbed by the construction will be restored. Solid wastes resulting from the construction project will be regularly cleared away with substantial efforts made to minimize inconvenience to area residents.

Care will be taken to maintain dirt to avoid erosion and runoff. The proposed project will disturb one or more acres of soil; therefore, the applicant is required to obtain an NPDES General Permit Number 2 (for storm water discharge associated with construction activities) and abide by its terms. Provided that this permit is obtained and the terms of which are abided by, no significant impact to surface water quality, fish, shellfish, wildlife, or their natural habitats is expected.

Temporary air quality degradation may occur due to dust and fumes from construction equipment. The applicant shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property during the proposed project (567 Iowa Administrative Code IAC 23.3(2)"c").

**Historical/Archaeological:** Various Native American tribes with an interest in the area and the Certified Local Government were provided information regarding the project. A Phase I Archeological investigation of the proposed project area is currently underway. Results from this investigation will be submitted to the State Historical Preservation Office (SHPO) for review. The project will only proceed as planned if a determination of either "no historic properties affected" or "no adverse affect on historic properties" can be appropriately reached with or without mitigation. However, if project activities uncover any item(s) that might be of archaeological, historical, or architectural interest, or if important new archaeological, historical, or architectural data should be encountered in the project APE, the applicant should make reasonable efforts to avoid further impacts to the property until an assessment can be made by an individual meeting the Secretary of the Interior's professional qualifications standards (36 CFR Part 61).

**Environmental:** A Joint Application was submitted by the City's consultant to the Iowa DNR Conservation and Recreation Division and U.S. Army Corps of Engineers. The DNR Flood Plain Management Section will determine if the proposed project requires a permit for impacts to the 100-year floodplain. The DNR Conservation and Recreation Division will determine if the project will impact any State-owned lands or State-listed threatened or endangered species. The U.S. Army Corps of Engineers will determine if the proposed project will impact wetlands or jurisdictional waters of the United States. While the Iowa DNR Conservation and Recreation Division has not yet commented, it is not anticipated that the project would interfere with any State-owned parks, recreational areas or open spaces. While the U.S. Army Corps of Engineers has not yet commented on the project, the project will not impact wetlands provided that the terms of any necessary Nationwide Permit are abided by. The project will not impact any wild and scenic rivers as none exist within the State of Iowa. The U.S. Fish & Wildlife Service Section 7 Technical Assistance website consultation determine that the project is not likely to impact protected species or their habitats provided that any tree cutting is conducted between October 1 and March 31 to avoid impacting endangered bats. However, if any State- or Federally-listed threatened or endangered species or communities are found during the planning or construction phases, additional studies and/or mitigation may be required. While the Iowa DNR Floodplain Management Section has not yet commented, this project will not impact the 100-year floodplain provided all necessary floodplain development permits, state and local, are obtained and the terms of which are abided by. No adverse impacts are expected to result from this project, such as those to surface water quantity, or groundwater quality or quantity.

**Land Use and Trends:** The project will not displace population nor will it alter the character of existing residential areas. No significant farmlands will be impacted. This project should not impact population trends as the presence or absence of existing water/sewer infrastructure is unlikely to induce significant alterations in the population growth or distribution given the myriad of factors that influence development in this region. Similarly, this project is unlikely to induce significant alterations in the pattern and type of land use.

**Irreversible and Irretrievable Commitment of Resources:** Fuels, materials, and various forms of energy will be utilized during construction

**Nondiscrimination:** All programs, projects, and activities undertaken by DNR in the SRF programs are subject to federal anti-discrimination laws, including the Civil Rights Act of 1964, section 504 of the Rehabilitation Act of 1973, and section 13 of the Federal Water Pollution Control Amendments of 1972. These laws prohibit discrimination on the basis of race, color, national origin, sex, disability, or age.

**POSITIVE ENVIRONMENTAL EFFECTS TO BE REALIZED FROM THE PROPOSED PROJECT**

Positive environmental effects will be maintained or improved water quality and/or quantity for DMWW customers in this vicinity. This project will assist in the prevention of water supply contamination associated with inadequate pressures within the distribution system.

**SUMMARY OF REASONS FOR CONCLUDING NO SIGNIFICANT IMPACT**

- The project will not significantly affect the pattern and type of land use (industrial, commercial, agricultural, recreational, residential) or growth and distribution of population.
- The project will not conflict with local, regional or State land use plans or policies.
- While the U.S. Army Corps of Engineers has not yet commented on the project, the project will not impact wetlands provided that the terms of any necessary Nationwide Permit are abided by.
- The project may effect, but is not likely to effect threatened and endangered species or their habitats provided that any tree cutting is conducted between October 1 and March 31 to avoid impacting endangered bats. If any State- or Federally-listed threatened or endangered species or communities are found during the planning or construction phases, additional studies and/or mitigation may be required.
- The project will not displace population, alter the character of existing residential areas, or convert significant farmlands to non-agricultural purposes.
- While the Iowa DNR Floodplain Management Section has not yet commented, this project will not impact the 100-year floodplain provided all necessary floodplain development permits, state and local, are obtained and the terms of which are abided by.
- While the Iowa DNR Conservation and Recreation Division has not yet commented, it is not anticipated that the project would interfere with any State-owned parks, recreational areas or open spaces. The project will not have effect on parklands, preserves, other public lands, or areas of recognized scenic or recreational value.
- A Phase I Archeological investigation of the proposed project area is currently underway. Results from this investigation will be submitted to the State Historical Preservation Office for review. The project will only proceed as planned if a determination of either “no historic properties affected” or “no adverse affect on historic properties” can be appropriately reached with or without mitigation.
- The project will not have a significant adverse effect upon local ambient air quality provided the applicant takes reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property during the proposed project (567 IAC 23.3(2)“c”).
- The project will not have a significant adverse effect upon local ambient noise levels, surface water quantity, groundwater quality or quantity, or water supply.

- No significant impact to surface water quality, fish, shellfish, wildlife, or their natural habitats is expected provided that an NPDES General Permit Number 2 (for storm water discharge associated with construction activities) is obtained and the terms of which are abided by.

The project description, scope, and anticipated environmental impacts detailed above are accurate and complete to the best to my knowledge.

_____ _____

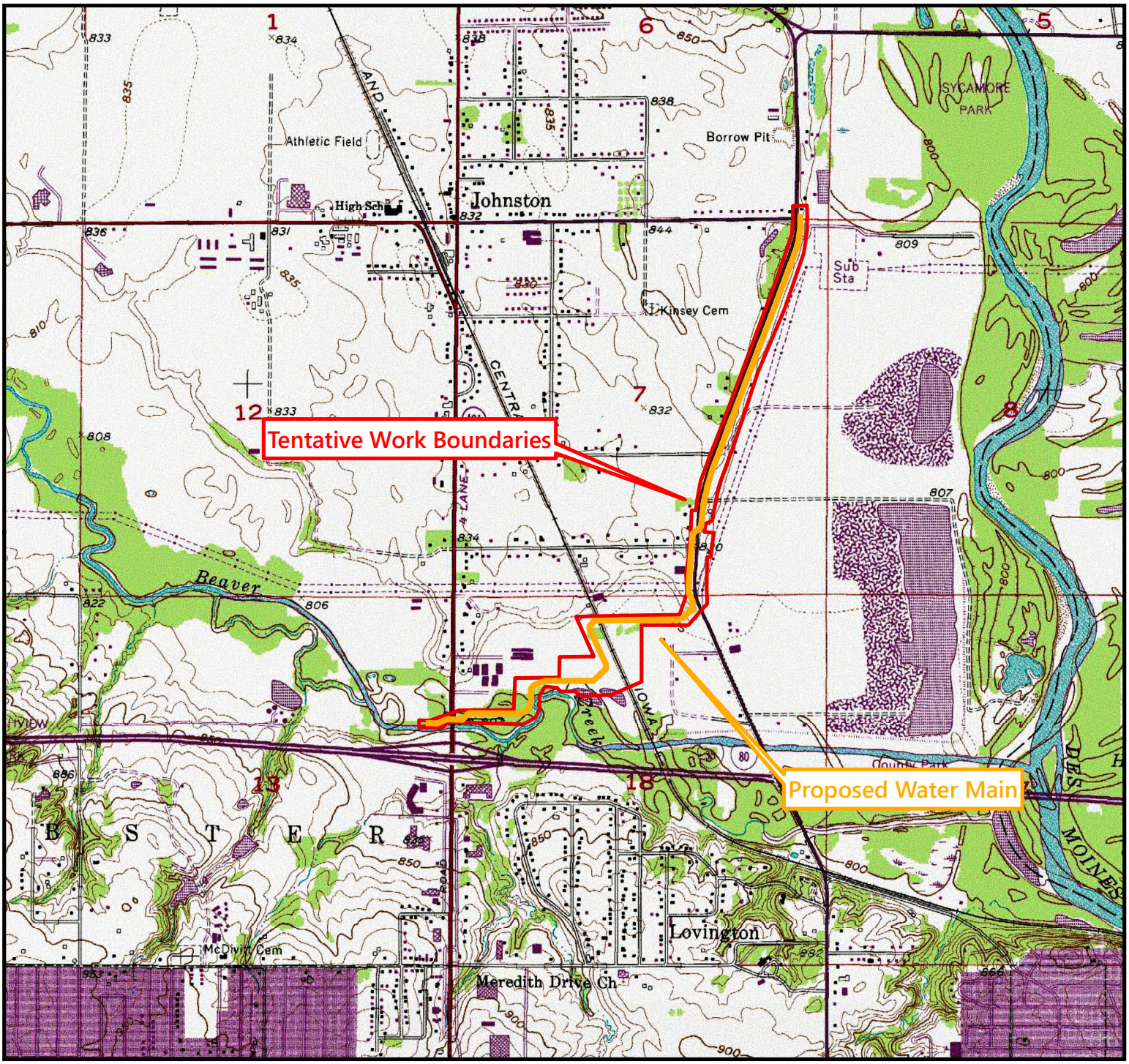
Signature of the Chair, Des Moines Water Works Date

_____

Printed Name of the Chair, Des Moines Water Works

STATE REVOLVING FUND IOWA

USGS 7.5' Quad: Des Moines NW and SW
S: 6, 7,18, T: 79N, R: 24W
S: 25, 36 T: 79N, R: 25W
Date: 1975-1976




# Topographic Map

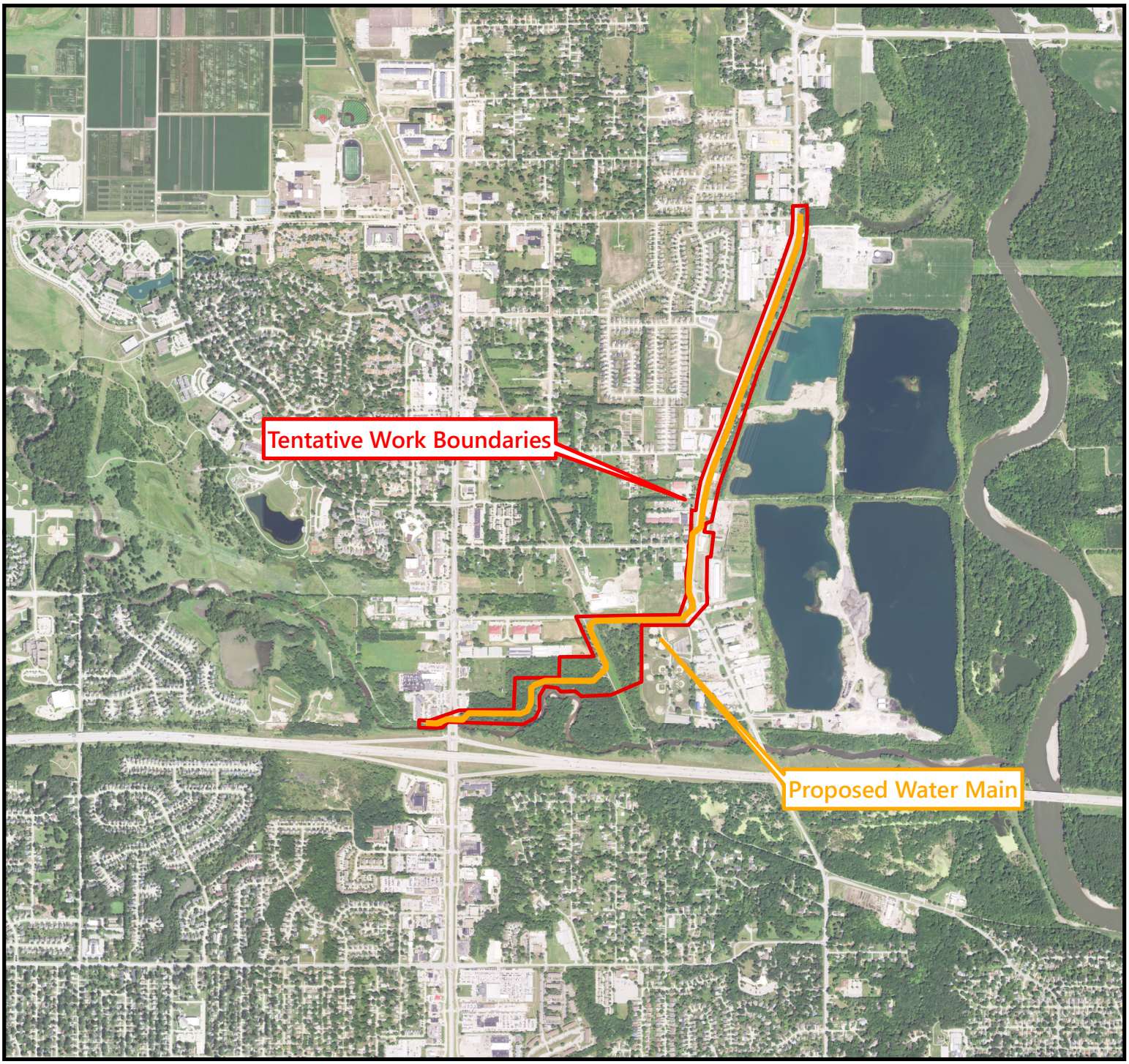
Des Moines Water Works - Transmission Main North
Johnston, Iowa (Polk County)

Scale: 1 inch = 2,000 feet

0 1,000 2,000 3,000 4,000 Feet

STATE REVOLVING FUND IOWA

2019




# Aerial Photograph

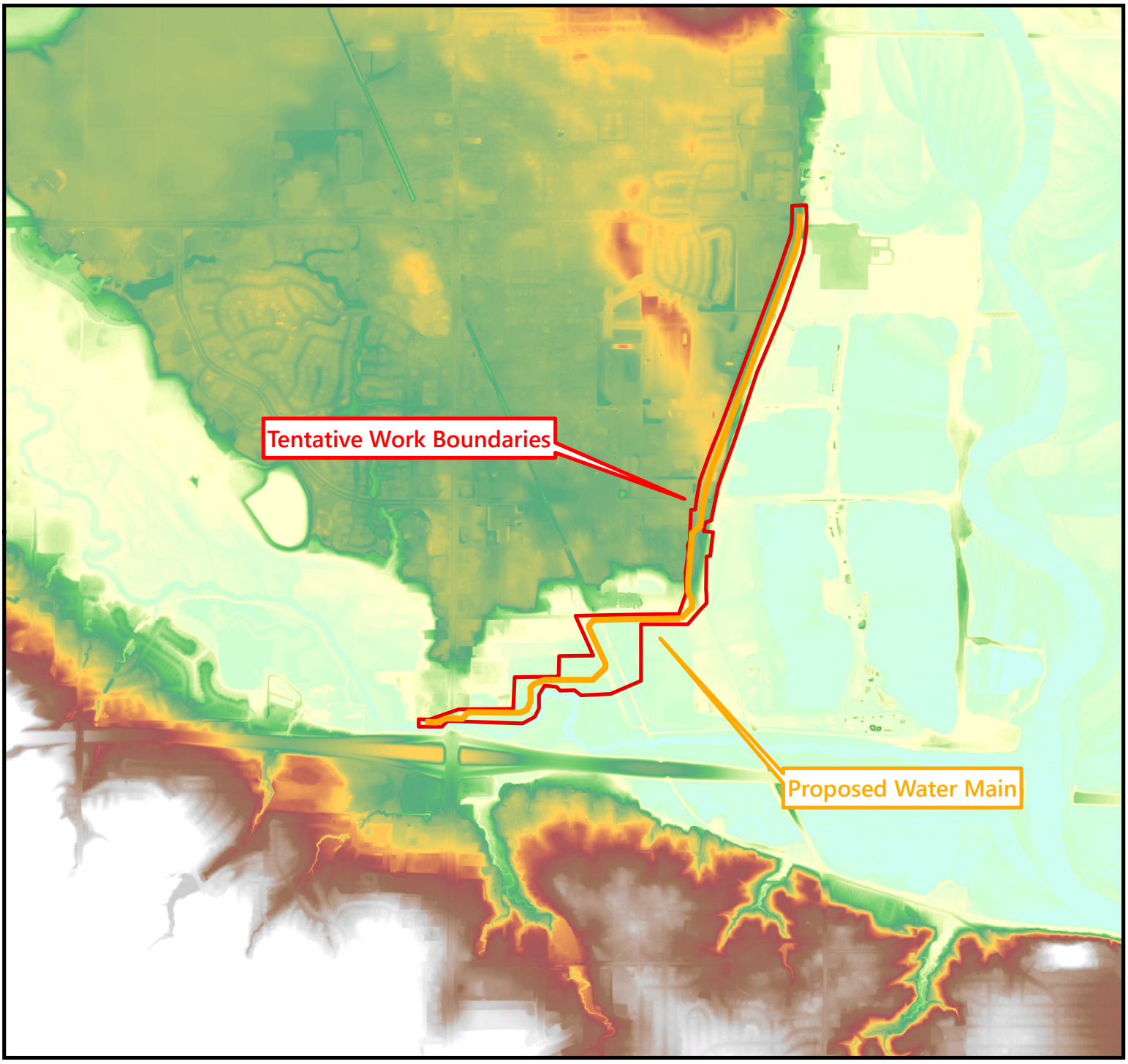
Des Moines Water Works - Transmission Main North
Johnston, Iowa (Polk County)

Scale: 1 inch = 2,000 feet

0 1,000 2,000 3,000 4,000 Feet

STATE REVOLVING FUND IOWA

2010




# LiDAR

Scale: 1 inch = 2,000 feet

0 1,000 2,000 3,000 4,000 Feet

Des Moines Water Works - Transmission Main North
Johnston, Iowa (Polk County)

STATE REVOLVING FUND
IOWA

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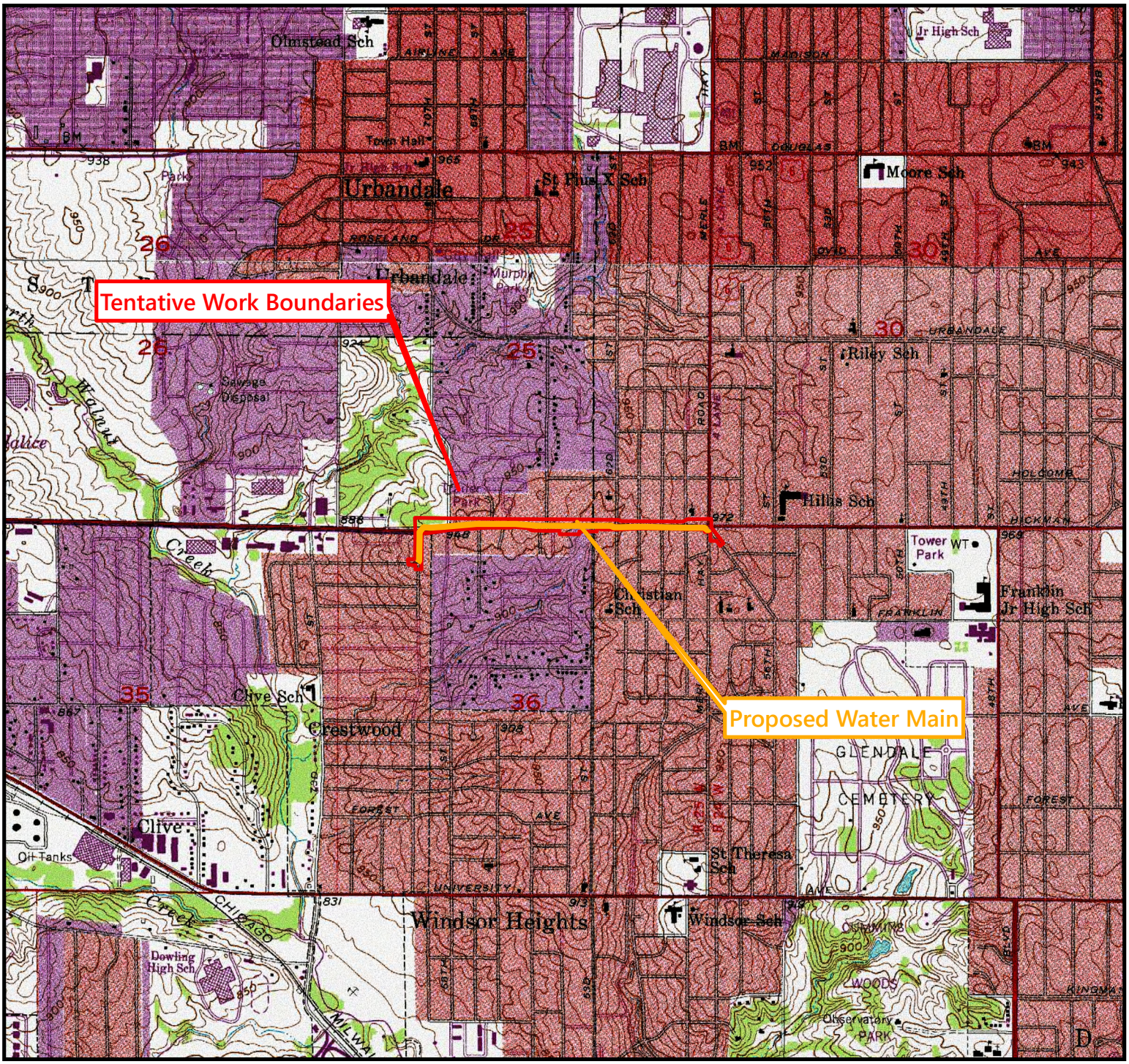



# Topographic Map

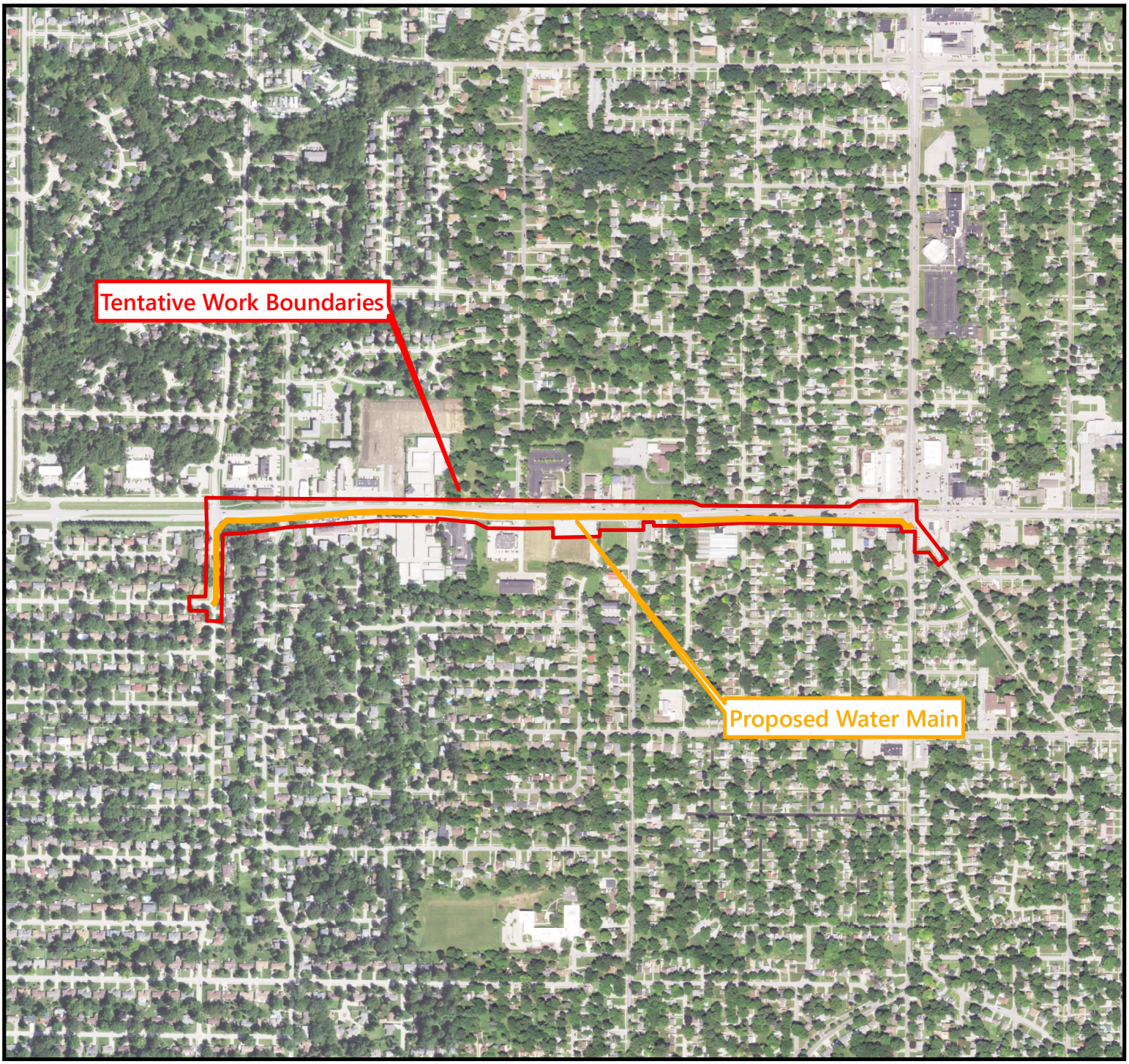
Des Moines Water Works - Transmission Main South
Des Moines, Iowa (Polk County)

Scale: 1 inch = 2,000 feet

0 1,000 2,000 3,000 4,000 Feet

STATE REVOLVING FUND IOWA

2019




# Aerial Photograph

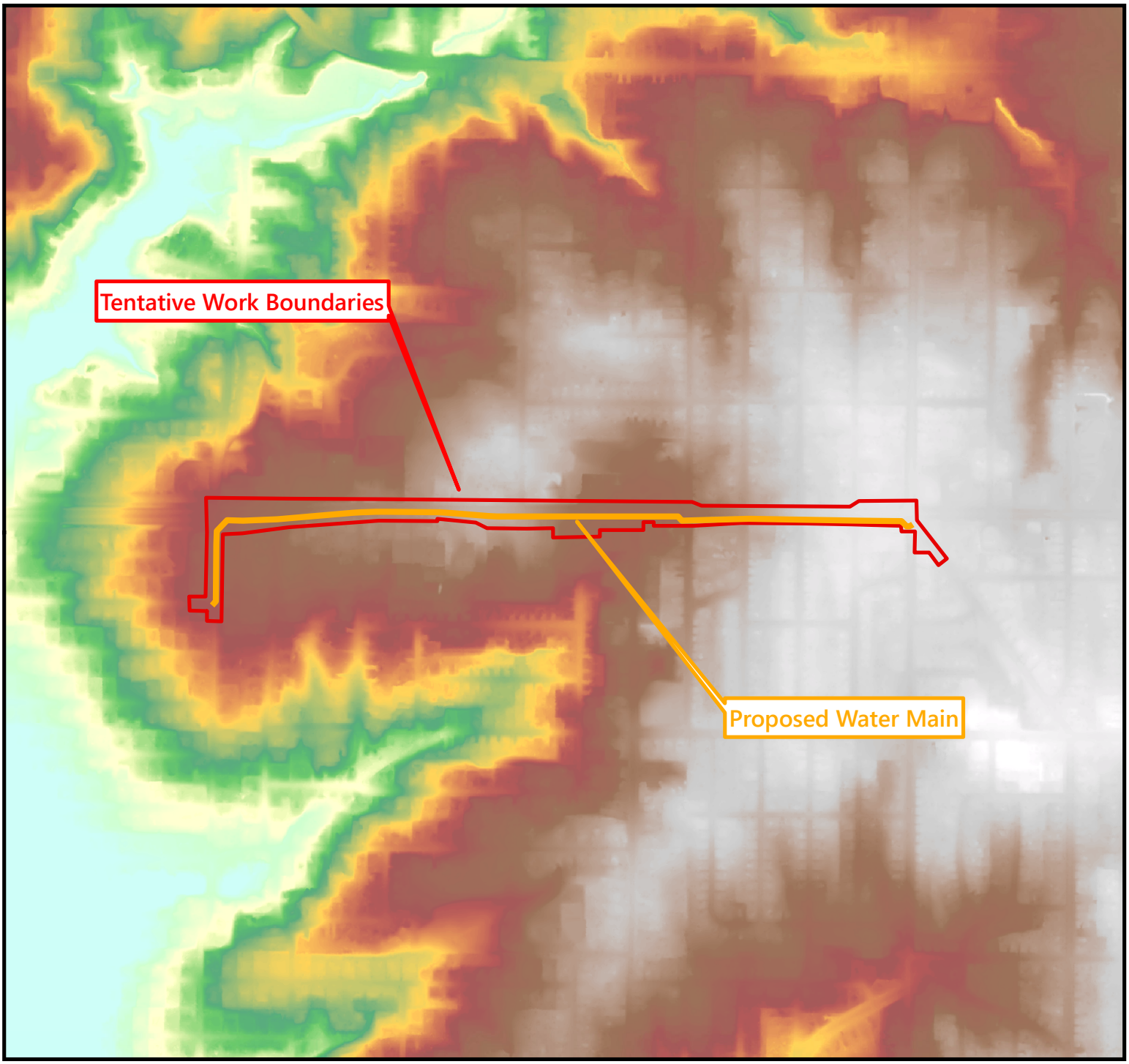
**Des Moines Water Works - Transmission Main South**
**Des Moines, Iowa (Polk County)**

Scale: 1 inch = 833 feet

0 430 860 1,290 1,720 Feet

STATE REVOLVING FUND IOWA

2010




# LiDAR

Scale: 1 inch = 833 feet

0 430 860 1,290 1,720 Feet

Des Moines Water Works - Transmission Main South
Des Moines, Iowa (Polk County)

Des Moines Water Works
Water You Can Trust for Life

**DES MOINES WATER WORKS**
**Board of Water Works Trustees**

Agenda Item No. Information Items A-D
Meeting Date: August 22, 2023
Chairperson's Signature ☐Yes ☒ No

# AGENDA ITEM FORM

**SUBJECT: Information Items**

**SUMMARY:**

A. Board Committee Reports
   - Finance and Audit Committee
   - Planning Committee
   - Stowe Foundation
   - Greater Des Moines Botanical Garden Board
   - Des Moines Water Works Park Foundation Board

B. CEO and General Manager's Comments

C. Safety Update

D. Contract Status and Professional Services Agreements

**FISCAL IMPACT:**

No impact to the budget.

**RECOMMENDED ACTION:**

For review and discussion.

**BOARD REQUIRED ACTION:**

Review and discussion.

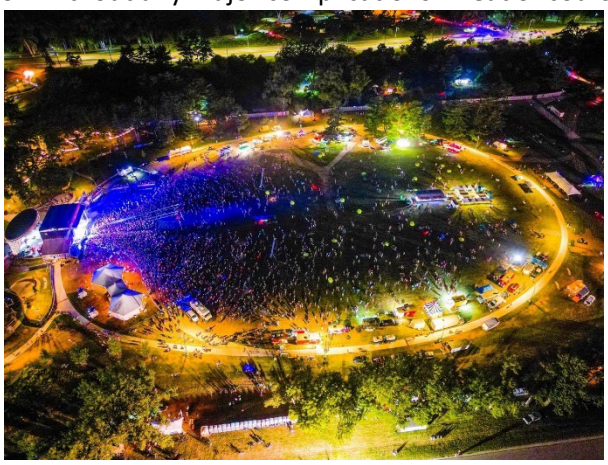
| | | |
|---|---|---|
| _____ / _____ (date) | _____ / _____ (date) | _____ / 8/17/23 (date)<br>Ted Corrigan, P.E.<br>CEO and General Manager |

Attachments: DMWWPF Executive Summary, July Board Minutes, July 2023 Financials, Events Calendar; Safety Update; Contract Status and Professional Services Agreements Spreadsheets

**15 August 2023**

**Updates from the Des Moines Water Works Park Foundation**
July and August Meeting Minutes attached along with July Financials

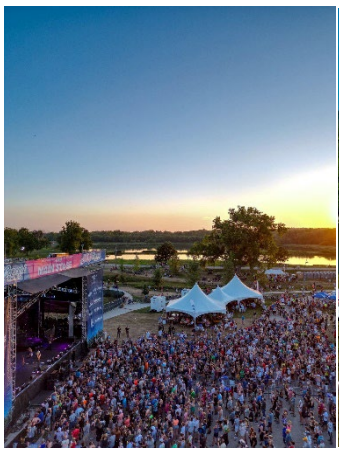
**Programming**
RAGBRAI L came to Des Moines and the Park and we have received very positive reviews from all around. In spite of the heat and lagging sales, the extensive event prep and planning paid off as it went off without any major complications. Heat of course played a significant role in shapping this years ride,

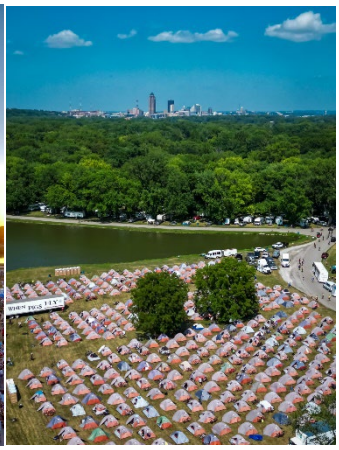




but we were able to entertain, feed, shower, camp and send 20,000+ riders safely on their way.
August offers us a slight breather in major events as we give way to Hinterland and the Iowa State Fair. However the Biergarten and the Local Bands Brews and Bike concert series continues each week. The schedule picks back up again in September with two symphony concerts over Labor Day, two large paid concerts, and Oktoberfest in between them to round out our festival schedule for the year. Oktoberfest will have a lot of eyes on it by other heritage festivals as well as multi day festivals such as 80/35 as they are interested in seeing how the staging works.

**Highlights of the season include**:
*Ballet Des Moines – June 1
Iowa Craft Brew Festival – June 3
Nice Tri (Aethism benefit) – June 4
*Zenith Chamber Music Festival – June 8
Charles Wesley Godwin – June 9
*Des Moines Pride – June 10
Charlie Crocket – June 23
Willie Nelson – June – 27
Young the Giant - June 28
Koe Wetzel – June 30
Dirty Heads – July 3
*Peace Walk for Srebrenica – July 9
*Music Under the Stars – July 9
The Dead South – July 13
Styx – July 14
Corridos Festival – July 15
*Ukraine Benefit – July 16
*Music Under the Stars - July 16
Whiskey Meyers – July 20
*RAGBRAI & Lynard Skynard – July 26
*Iowa Dance Theater Choreography Festival – August 5
Perry Johnson – American Dream Rally – August 12
Above & Beyond Cancert Elevate Festival – August 20
Dominic Fike – August 21
*Des Moines Symphony - Direct from Sweden: The Music of ABBA - September 2
*Des Moines Symphony – Heroes & Legends - September 3,
Jordan Davis - September 15
Oktoverfest – September 22 - 24
Paul Caurther – September 29
*Part of the Foundation's free Community Cultural Series*
*Completed*






**DES MOINES WATER WORKS PARK FOUNDATION**
**Board of Directors Meeting**
**Friday, July 14, 2023 – Board Meeting - 12:00 - 1:30**
**Meeting Minutes**

***DMWWPF Vision:*** *Water Works Park is the place where nature and people flourish.*
***DMWWPF Mission:*** *Foster stewardship for clean water and nature through unique learning opportunities, cultural experiences, and outdoor adventures.*

**BOD Members in Person Attendance:** Jason Stone, Pat Bruner, Crystal Franke, Amy Jennings, Ardis Kelley, Chris Lightfoot, Drew Manatt, Brad Sporrer, Matt Van Loon

**BOD Members Virtual:** Ashley Aust, Taylor Boland, and Corey Morrison

**Guests/Staff:** Sam Carrell – DMWWPF; Teri TeBockhorst - DMWWPF; Melissa Walker, DMWW.

**I. Call to Order & Welcome/Affirm Agenda** – Jason Stone called the meeting to order at 12:04 PM.

**II. Guest Speaker** – Melissa Walker, Director of Public Relations and Communication DMWW.

Teri introduced Melissa Walker to the Board. Melissa discussed the Stowe Citizens Water Academy starting in October 2023. This meets over 4 weeks and 18 hours of active education on the Des Moines Water Works, water quality, how water is delivered to customers and water conservation. Melissa Walker provided information on the Academy and the deadline in August 31, 2023. Melissa also updated the Board on the upcoming education and promotional opportunities that DMWW will be doing in the coming months.

**III. Approve Minutes:**

- Upon a motion by Amy Jennings, and a second by Crystal Franke, the Board of Directors unanimously approved the Des Moines Water Works Park Foundation Meeting Minutes for June 2023.

**IV. Approve New Board Member:** Ashley Aust introduced Brad Sporrer and the nominating committee is recommending approval of Brad Sporrer as a Des Moines Water Works Park Foundation Board Member. Upon a motion by Matt, and a second by Pat, the Board of Directors unanimously approved Brad Sporrer.

**V. Committee Reports**

- Governance – Ashley needs to get the Waivers out electronically for signatures.
- Programming – Sam Carrell updated the Board on the programming committee:
    - Jenny reported that there was a joint Programming and Marketing Committee Meeting on June 8, 2023.
- RAGBRAI – Crystal Franke and Sam Carrell reported on RAGBRAI committee:
    - Crystal mentioned that we need to get more folks signed up for volunteering at the beer tent.
    - Crystal discussed the shirts and the koozies that we will be selling.
    - Teri discussed the signage for clean water made fresh daily signs. Teri is working on the phase 2 signage by the bridge and for the Lynyrd Skynyrd concert. Teri discussed that we have informational materials that we will be handing out with t-shirts and koozies.
    - Sam and Teri are meeting with Des Moines Radio Group next week to discuss the radio marketing.
    - [Discussed a DMWWPF phone number so that Sam's cell phone is not the one receiving all of the calls and looking at an automated system to answer common questions].
    - Sam discussed the RAGBRAI map and the locations of stages, camping, RVs, and more. Sam then showed the setup for each location within the Park.
- Marketing – Chris Lightfoot reported on the marketing committee:
    - Corey Morrison is organizing an ad hoc website committee to discuss the work on the website. The work that has been done is: links have been updated and old links have been removed, created main landing page for all of the events at the park with links regarding events, and added the clean water campaign. The Board provided additional feedback on updating the information regarding concerts and who to contact for concert information. The Board provided feedback regarding RAGBRAI on the DMWWPF website or continue link to Catch Des Moines.
    - Teri discussed the Clean Water page and the DMWWPF website.
    - The next newsletter will go out mid-August.
- Development – Teri Wood TeBockhorst reported on the development committee:
    - Corey and Teri have been working on fundraising opportunities on the website and Teri is kicking off the fundraising this month.

- DMWW – Mike McCurnin reported on the DMWW.
    - The last several years have been record pumpage years. We expect 2023 to be record setting also.
    - Mike recognized Sam and the work that Sam did with the parking issues and getting it resolved so quickly.

**VI. Executive Director Report** – Sam Carrell

- 2023 Season – The updated 2023 Schedule is in the Board file and Sam discussed the upcoming events.
- Sam mentioned that 80/35 is moving to the Park for next year.
- Sam was informed by the Community Foundation that they will not be offering most of their back end services. This will be effective in December 2023 so we need to determine who we can work with moving forward.
- Sam mentioned that we will be working on an outdoor meeting. The Board recommended that we would do a Board and Committee Event in September.
- We will start receiving funds from the concerts in the next several weeks so cash flow will be looking better now.
- Sam discussed that we worked closely with the DMWW, the Des Moines Police, the security, the promoter, and others and everything has gone smoothly since these discussions occurred.

**VII. Financial Report –** Ardis Kelley

- Ardis Kelley reported on the June 2023 financials and the current cash flow for the Park.
- Ardis Kelley also discussed that Community Foundation will be done with our non-profit accounting services work by the end of the year. Community Foundation is going to assist us with a transition plan.

**VIII. President's Report –** Jason Stone

- Donor Wall Contract has been executed. It is about $60,000 to get the Donor Wall in place.
- Atlantic Bottling Proposal in the Board file. They will work with us on the products. There is still work to be done to get this final.

**IX. Adjourn –** Stone adjourned the meeting at 1:34 PM.

Respectfully submitted by Ashley Aust, Board Secretary.

# DES MOINES WATER WORKS PARK FOUNDATION
## Board of Directors Meeting
## Friday, August 11, 2023 – Board Meeting - 12:00 - 1:30 PM
## Meeting Minutes

***DMWWPF Vision:*** *Water Works Park is the place where nature and people flourish.*
***DMWWPF Mission:*** *Foster stewardship for clean water and nature through unique learning opportunities, cultural experiences, and outdoor adventures.*

**BOD Members in Person Attendance:** Drew Manatt, Amy Jennings, Jenny Herrera, Taylor Boland, Brad Sporrer, Ashley Aust, Crystal Franke, Matt Van Loon, Chris Lightfoot, Ardis Kelley

**BOD Members Virtual:** Andrea Boulton

**Guests/Staff:** Sam Carrell – DMWWPF; Teri TeBockhorst – DMWWFP; Margo Chipps – DMWWFP; Mike McCurnin – DMWW;

**I. Call to Order & Welcome/Affirm Agenda** – Crystal Franke called the meeting to order at 12:00 PM.

**II. Approve Minutes**
- Upon a motion by Matt Van Loon and second by Jenny Herrera, the Board of Directors unanimously approved the Des Moines Water Works Park Foundation Meeting Minutes for June 2023.

**III. President's Report –** Crystal Franke
- Crystal Franke celebrated and congratulated Sam on a successful RAGBRAI;
- Today is Margo's last day as an intern and we thanked her for her time with us. She learned a lot with RAGBRAI and enjoyed working with the Des Moines Water Works Park Foundation!

**IV. Committee Reports**
- Governance – Ashley Aust had no additional update on governance.
- Programming – Jenny Herrera
  - Jenny Herrera updated the Board on the Docuseries event.
  - Jenny also reminded the Board that the water station for the Des Moines Marathon is on October 15, 2023. We need volunteers for this event and Jenny will resend the email asking for volunteers.
- RAGBRAI - Crystal Franke and Sam Carrell
  - Crystal said a huge thank you to the volunteers that assisted with the RAGBRAI. It was a successful event!
  - Sam stated that there were 30 EMT calls and 16-17 transports to the hospital mainly by heat and there was one person that had a heart attack.
  - There were an estimated 18,000 campers and probably 12,000 concert attendees. We could have handled approximately an additional 8,000 campers.
  - We will get the revenue from RAGBRAI through bartending, koozies and t-shirts for the next meeting.
- Marketing – Chris Lightfoot

- Teri and Andy are working on the next newsletter and there is a refresh with the newsletter.
- Corey is working on the website. It is not a small change so it is taking a little time.
- Chris is applying for a Google grant to get some marketing.
- The committee is preparing a display piece for the Iowa Innovation Award. The Local Bands, Brews and Bikes are all scheduled for the remainder of the year.

- Development – Teri Wood TeBockhorst
  - Discussed a new sponsorship piece that is in production now. This is the time to capitalize on the excitement and awareness of the park. We can show that we did the things that we said that we were going to do.
  - Working on a digital media factbook for talking points for the media.
  - Sam is trying to bring the endowment in before the news on the symphony.
- DMWW – Mike McCurnin
  - Appreciate all the hard work from Sam and Tom on RAGBRAI.
  - Pumpage is still ahead of pace from last year and without peak days. People are using a lot of water but not all on the same day so that is a perfect way for the utility to operate.
  - Quality is satisfactory, which means that there are not a lot of nitrates in the water and we haven't had to use the nitrate system.

**V. Financial Report –** Ardis Kelley

- We did not receive our July financials yet so we expect to see that next week.
- In July, we received the payment for the damages to the park from the political event.
- The July financials will not include the revenues from the RAGBRAI as we are receiving these in August.
- The first week of August we had more cash out than coming in, which included our $50,000 payment to the City of Des Moines.
- We discussed that this is our first year of full revenue from events. In 2024, part of the financials report will include a cash projection based on 2023 historical information.

**VI. Executive Director Report** – Sam Carrell

- RAGBRAI – Sam mentioned that DMWW was awesome to work with on RAGBRAI. Big kudos to the DMWW team and the work that they did to support the RAGBRAI event.
- 2023 Season – Sam discussed the schedule for the remainder of the year. Sam updated the Board on the Bier Garden and the addition of the Mars Café and the addition of a lunch option.
- September Outdoor Meeting – Sam reminded the Board that the next meeting is an outdoor meeting at the Bier Garden at 3:30 PM.

**VII. Adjourn**

- Upon a motion by Ashley Aust and second by Artis Kelley, the board adjourned.

***DMWWPF Values:***

*1. Conservation: We are a model of urban conservation that protects and promotes our natural environment through engaging amenities and activities, with an intentional focus on clean water.*

*2. Well-being: We provide opportunities for park lovers of any age to invigorate their bodies and quiet their minds through recreation, play, and connection to nature.*

*3. Collaboration: We nurture and grow strategic partnerships with other organizations and community attractions to maximize our collective impact.*

*4. Inclusion: We create a place that is welcoming to all, encouraging and growing understanding, and connection to strengthen our community. We are everyone's park.*

*5. Amazement: We leverage 1500 acres of urban greenspace to create unique experiences that delight and amaze human visitors, while respecting and enhancing the park's ecosystem.*

# Des Moines Water Works Park Foundation

| *Comparative Statements of Financial Position as of* | July 31, 2023 | June 30, 2023 | December 31, 2022 |
|---|---|---|---|
| **ASSETS** | | | |
| Cash and Cash Equivalents | $ 206,084.75 | $ 73,226.14 | $ 184,062.05 |
| Investments - Endow Iowa | 51,683.14 | 50,685.89 | 48,176.08 |
| Pledges Receivable | 497,607.07 | 597,607.07 | 634,107.07 |
| Prepaid Expenses | 2,976.11 | 3,306.74 | 1,005.28 |
| **Total Assets** | $ 758,351.07 | $ 724,825.84 | $ 867,350.48 |
| Accounts Payable | $ 49,097.44 | $ 23,926.38 | $ 11,007.53 |
| Accrued Expenses | 1,780,212.29 | 1,780,212.29 | 1,790,212.29 |
| Loan Payable - Line of Credit | 445,034.55 | 448,043.22 | 484,370.55 |
| **Total Liabilities** | $ 2,274,344.28 | $ 2,252,181.89 | $ 2,285,590.37 |
| **NET ASSETS** | | | |
| Net Assets without donor restrictions: | | | |
| Available to Spend | $ 868,750.84 | $ 815,900.48 | $ 899,414.69 |
| Net Assets with donor restrictions: | | | |
| Endow Iowa | 51,683.14 | 50,685.89 | 48,176.08 |
| Karras Kaul Sculpture (Ragbrai) | 10,107.21 | 10,107.21 | 10,957.21 |
| Park Improvement/Fleur Trail | (2,446,534.40) | (2,404,049.63) | (2,376,787.87) |
| **Total Net Assets** | $ (1,515,993.21) | $ (1,527,356.05) | $ (1,418,239.89) |
| **Total Liabilities and Net Assets** | $ 758,351.07 | $ 724,825.84 | $ 867,350.48 |

Des Moines Water Works Park Foundation
Consolidated Statement of Financial Activity and Change in Net Assets
For the seven months ending July 31, 2023

| | July-23 | | | | | FISCAL YEAR TO DATE | | | Annual Budget |
|---|---|---|---|---|---|---|---|---|---|
| | Operating | Development | Programming | Capital | Total | Actual | Budget | Budget Variances | 2023 |
| **REVENUES AND OTHER SUPPORT** | | | | | | | | | |
| Corporate & Foundation Giving | $ - | $ - | $ - | $ - | $ - | **$ 1,017.24** | *$ 53,760.00* | *$ (52,742.76)* | *$ 92,160.00* |
| Individual Gifts | - | 5,230.38 | - | - | 5,230.38 | **13,103.64** | *2,916.67* | *10,186.97* | *5,000.00* |
| Miscellaneous Income | 161.33 | - | - | - | 161.33 | **161.33** | - | *161.33* | - |
| Park Sponsorhip | - | - | - | - | - | **-** | *72,916.67* | *(72,916.67)* | *125,000.00* |
| Program Income | - | - | - | - | - | **19,150.00** | - | *19,150.00* | - |
| Special Event Income | - | - | 77,464.06 | - | 77,464.06 | **100,021.07** | *29,166.67* | *70,854.40* | *50,000.00* |
| User/Vendor Revenue | - | - | 7,000.00 | - | 7,000.00 | **7,000.00** | *247,304.17* | *(240,304.17)* | *423,950.00* |
| Investment Income, net of fees | 1,272.22 | - | - | 0.53 | 1,272.75 | **5,552.79** | - | *5,552.79* | - |
| **Total Revenues and Other Support** | $ 1,272.22 | $ 5,230.38 | $ 84,464.06 | $ 0.53 | $ 91,128.52 | **$ 146,006.07** | *$ 406,064.17* | *$ (260,219.43)* | *$ 696,110.00* |
| **EXPENSES** | | | | | | | | | |
| Accounting/Audit | $ 875.00 | $ - | $ - | $ - | $ 875.00 | **$ 6,125.00** | *$ 6,464.79* | *$ (339.79)* | *$ 11,082.50* |
| Advancement Tools | - | - | - | - | - | **10.70** | - | *10.70* | - |
| Amphitheater Programming | - | - | 6,994.18 | - | 6,994.18 | **44,226.77** | *61,250.00* | *(17,023.23)* | *$ 105,000.00* |
| Building Maintenance | - | - | - | 36,088.00 | 36,088.00 | **36,088.00** | - | *36,088.00* | - |
| Consulting Services | - | - | - | - | - | **2,000.00** | - | *2,000.00* | - |
| Community Programming | - | - | 2,500.00 | - | 2,500.00 | **3,500.00** | *15,312.50* | *(11,812.50)* | *26,250.00* |
| Development | - | - | - | - | - | **-** | *46,958.33* | *(46,958.33)* | *80,500.00* |
| Food Expense | - | - | - | - | - | **111.17** | - | *111.17* | - |
| Furnishing Expense | - | - | - | 3,086.74 | 3,086.74 | **22,161.74** | - | *22,161.74* | - |
| General Office | 474.12 | 2,702.68 | 450.00 | - | 3,626.80 | **8,740.53** | *3,208.33* | *5,532.20* | *5,500.00* |
| Governance | - | 1,158.50 | - | - | 1,158.50 | **1,158.50** | *1,720.83* | *(562.33)* | *2,950.00* |
| Information Technology | 138.96 | 79.49 | - | - | 218.45 | **571.90** | - | *571.90* | - |
| Interest Expense | - | - | - | 3,310.56 | 3,310.56 | **22,000.36** | *20,416.67* | *1,583.69* | *35,000.00* |
| Marketing | - | - | 144.45 | - | 144.45 | **1,054.49** | *12,133.33* | *(11,078.84)* | *20,800.00* |
| Misc. Expense | - | - | - | - | - | **-** | *291.67* | *(291.67)* | *500.00* |
| Office Equipment | - | - | - | - | - | **843.31** | - | *843.31* | - |
| Park Maintenance | - | - | - | - | - | **-** | *26,250.00* | *(26,250.00)* | *45,000.00* |
| Professional Services | 1,428.00 | 12,800.00 | 780.00 | - | 15,008.00 | **44,741.00** | - | *44,741.00* | - |
| Rent Expense | 130.00 | - | - | - | 130.00 | **780.00** | - | *780.00* | - |
| Staffing & Administrative Costs | 6,400.00 | - | - | - | 6,400.00 | **43,170.00** | *89,600.00* | *(46,430.00)* | *153,600.00* |
| Sponsorship Activity | - | - | 225.00 | - | 225.00 | **225.00** | - | *225.00* | - |
| Supplies Expense | - | - | - | - | - | **240.00** | - | *240.00* | - |
| Travel Expense | - | - | - | - | - | **15.60** | - | *15.60* | - |
| Utilities | - | - | - | - | - | **4,370.32** | *6,681.50* | *(2,311.18)* | *11,454.00* |
| Website Maintenance | - | - | - | - | - | **1,625.00** | - | *1,625.00* | - |
| **Total Expenses** | $ 9,446.08 | $ 16,740.67 | $ 10,868.63 | $ 42,485.30 | $ 79,765.68 | **$ 243,759.39** | *$ 290,287.96* | *$ (68,915.31)* | *$ 497,636.50* |
| **Change in Net Assets** | $ (8,173.86) | $ (11,510.29) | $ 73,595.43 | $ (42,484.77) | $ 11,362.84 | **$ (97,753.32)** | *$ 115,776.21* | *$ (191,304.12)* | *$ 198,473.50* |
| **Net Assets, Beginning of Year** | | | | | | **(1,418,239.89)** | | | |
| **Net Assets, End of Year** | | | | | | **$ (1,515,993.21)** | | | |

| 2023 | Date | Event |
|---|---|---|
| March | 18 | St Paddy's Marathon |
| | 22 | Plant tour NRCS |
| | | |
| April | 1-2 | Iowa Coursing Hounds |
| | 5 | Plant tour Waukee APEX |
| | 8 | DSM Criterium bike race |
| | 15 | Wombat Rugby at football fields |
| | 15-16 | Coursing Hounds of Iowa |
| | 21 | Trash bash park clean up |
| | 22 | Private shelter rental |
| | 22 | Extraordinary egg event |
| | 23 | Yoga at Maffitt |
| | 29 | Scream it out event |
| | 29 | Wombat Rugby at football fields |
| | 29 | Polk County Victims Rights walk |
| | 29 | Private gazebo rental |
| | 30 | Groupo Frontera concert |
| | | |
| May | 4 | DSM Criterium bike race |
| | 5 | Pet Rock concert - reschedule later |
| | 6-7 | DSM Women's marathon race |
| | 6 | The Pork Tornadoes |
| | 11 | Private shelter rental |
| | 12 | DSM Criterium bike race - RESCHEDULE LATER |
| | 13 | Race for Hope |
| | 13 | Political Rally - cancelled possible reschedule |
| | 14 | DSM Criterium bike race RESCHEDULE LATER |
| | 18 | Wedding rehearsal fountain |
| | 20 | Private fountain rental |
| | 20 | Polk Co Foster Children - photos in park |
| | 26 | Private shelter rental |
| | 27-28 | Karen Association of Iowa - soccer |
| | | |
| June | 1 | DSM Ballett |
| | 1 | DSM Criterium bike race |
| | 2 | Pet Rock concert - reschedule later - MOVED LOCATION |
| | 2-4 | Lowdown car show |
| | 3 | Iowa Craft Brew Festival |
| | 4 | Lazy not a tri race |
| | 8 | Zenith Chamber music festival |
| | 9 | Charles Wesley Godwin concert |
| | 10 | Private shelter rental |
| | 10 | People's Pride event |
| | 11 | IRONMAN |
| | 13 | Maffitt Wedding |
| | 15 | Plant tour - agricultural relations council |
| | 17-18 | Iowa Coursing Hounds |
| | 21 | Private shelter rental |
| | 23 | Charley Crocket concert |
| | 24 | Private fountain rental |
| | 27 | Willie Nelson concert |
| | 28 | Young the Giant concert |
| | 30 | Koe Wetzel concert |
| | 30-July 2 | Iowa Coursing Hounds |

| KEY |
|---|
| Sport/Fitness Event |
| DMWWPF Event |
| Wedding/shelter |
| Misc. (car shows, political events, festivals) |

| 2023 | Date | Event |
|---|---|---|
| July | 3 | Dirty Heads |
| | 9 | Music under the stars |
| | 9 | DSM Criterium bike race |
| | 9 | Peace Walk |
| | 9 | Music under the stars |
| | 13 | Dead South concert |
| | 14 | Styx concert |
| | 14 | Private shelter rental |
| | 14-15 | Beaverdale Bluegrass festival |
| | 15 | Private Shelter rental |
| | 15 | Moonlight Classic bike ride |
| | 15 | Hispanic concert |
| | 16 | Music under the stars |
| | 16 | Private shelter rental |
| | 16 | Ukraine Benefit |
| | 18 | Plant tour |
| | 20 | Bike Race |
| | 20 | Whiskey Meyers concert |
| | 26 | RAGBRAI - camping and concert |
| | 29-30 | Iowa Coursing Hounds |
| | | |
| August | 2 | DSM Criterium bike race |
| | 2 | Plant tour - RRAP |
| | 5 | Iowa Dance Theater |
| | 5-6 | Karen Association of Iowa - soccer |
| | 11 | Private shelter rental |
| | 12 | Private shelter rental |
| | 12 | DSM Criterium bike race |
| | 12 | American Dream Rally/concert |
| | 13 | Ruan appreciation picnic |
| | 13 | Bartet Market Pop in |
| | 13 | Private shelter rental |
| | 13 | Lyceum event |
| | 16 | Lead DSM Orientation |
| | 18 | Plant tour - Congressmand Nunn Staff |
| | 19-20 | Karenni Comm of DSM - soccer |
| | 20 | Elevate above and beyond cancer event |
| | 21 | Dominic Fike concert |
| | 24 | Private gazebo rental |
| | 27 | Peddle for the Pantry Ride |
| | 31 | USA RAPTORS band |
| | | |
| September | 2-3 | DSM Symphony |
| | 7 | plant tour - agribusiness |
| | 8 | DMWW social club employee luncheon |
| | 8 | Private Shelter rental |
| | 9-10 | Karen Association of Iowa - soccer |
| | 10 | School of Rock dance event |
| | 13 | DSM Criterium bike race |
| | 13 | Leader Institute DSM Alumni event |
| | 15 | Jordan Davis concert |
| | 16 | Private Shelter rental |
| | 17 | Hy-Vee marathon |
| | 17 | New City Church |
| | 20 | Private Shelter rental |
| | 20-24 | Octoberfest - set up, event |
| | 22-24 | Ikes outdoor expo |
| | 23 | Private fountain rental |
| | 27-Oct 1 | Polk County Democrats - set up, event |
| | 29 | Paul Cauthen concert |
| | | |
| October | 1 | Wonder Women run |
| | 8 | Blazing 5K |
| | 9 | Plant tour - legislators |
| | 14-15 | DSM Marathon - set up, event |
| | 28-29 | Coursing Hounds of Iowa |
| November | 12 | Girls on the Run |
| | 17 | DSM Criterium bike race |
| | | |
| | | Biergarten every Thursday-Sunday at amphitheater |
| | | Bands, Bikes, Brews - small concerts at beer garden |

**DES MOINES WATER WORKS**
Board of Water Works Trustees

Des Moines Water Works
Water You Can Trust for Life

2201 George Flagg Parkway | Des Moines, Iowa 50321-1190 | (515) 283-8700 | www.dmww.com

# MEMORANDUM

DATE: August 15, 2023

TO: Ted Corrigan, CEO and General Manager
Kyle Danley, COO

FROM: Dylan White, Field Safety Specialist

SUBJECT: Safety Memo

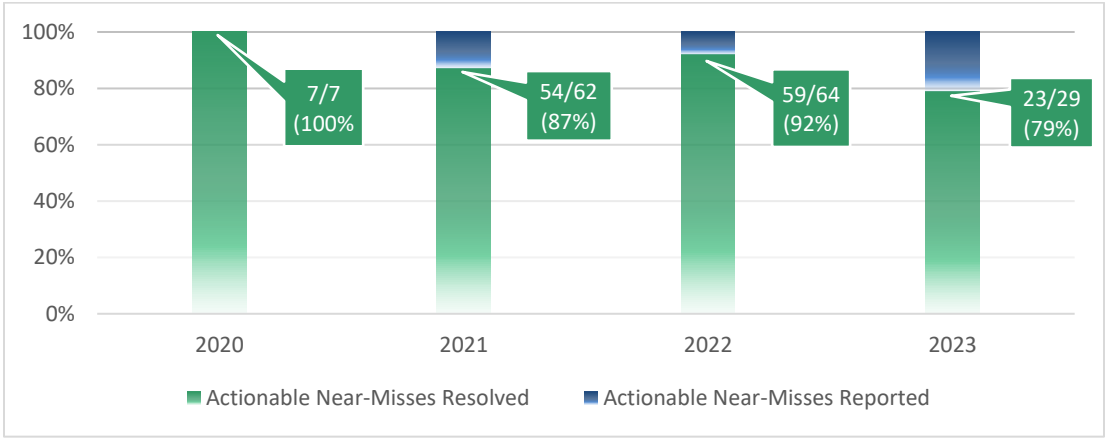
Injuries
6 (06/19/2023)

Accidents
8 (6 preventable)

Near Misses
7 Awareness
29 Actionable (79% resolved)

- Des Moines Water Works uses the near-miss process to identify items that need more eyes, ears, and attention.
- Actionables are distinguished as items that can be purchased, repaired, or improved upon.
- Over the last four years, the DMWW team has reported significantly more near-misses. This is attributed to the increase in engagement rather than the increase in hazards. Of the 162 actionable items reported, we have resolved 143 of them. This puts us at a 88% resolution rate, higher than our 75% goal.

**2020-2023 Actionable Near-Misses Resolved/Reported**



# COMPETITIVE BIDS CONTRACT STATUS FOR AUGUST 2023

| | | | |
|---|---|---|---|
| 2021 Well Rehabilitation | SWTP sites complete. MWTP #6 to be completed in fall of 2023. | Contractor | Layne Christensen Company, Inc. |
| | | Notice to Proceed | 2/14/2022 |
| | | Original Contract Sum | $1,344,820.00 |
| | | Net Change by Change Orders | $743,265.00 |
| | | Contract Sum to Date | $2,088,085.00 |
| | | Total Completed to Date | $1,081,996.00 |
| | | Anticipated Completion Date | Dec-23 |
| L. P. Moon Pumping Station - Pump No. 8 | Pump is operational. Final punch list items remain. | Contractor | The Waldinger Corporation |
| | | Notice to Proceed | 1/9/2023 |
| | | Original Contract Sum | $123,390.00 |
| | | Net Change by Change Orders | $4,654.00 |
| | | Contract Sum to Date | $128,044.00 |
| | | Total Completed to Date | $123,381.90 |
| | | Anticipated Completion Date | Sep-23 |
| Norwalk Highway G14 Meter Vault | Electrical and control work being finalized. | Contractor | Rognes Corp. |
| | | Notice to Proceed | 4/6/2022 |
| | | Original Contract Sum | $536,000.00 |
| | | Net Change by Change Orders | $2,853.00 |
| | | Contract Sum to Date | $538,853.00 |
| | | Total Completed to Date | $474,392.65 |
| | | Anticipated Completion Date | Oct-23 |
| Fleur Drive Operations Center Stormwater System Improvements - Phase 2 | Construction is substantially complete. Acceptance deferred until resolution of transformer issue. | Contractor | WRH, Inc. |
| | | Notice to Proceed | 3/28/2022 |
| | | Original Contract Sum | $1,179,900.00 |
| | | Net Change by Change Orders | $24,622.89 |
| | | Contract Sum to Date | $1,204,522.89 |
| | | Total Completed to Date | $1,189,022.89 |
| | | Anticipated Completion Date | Oct-23 |
| Gallery Valve Chamber Structures Reconstruction - Phase 2 | Construction is substantially complete. Punchlist items remain. | Contractor | Nate Todd Construction, LLC |
| | | Notice to Proceed | 7/11/2022 |
| | | Original Contract Sum | $498,750.00 |
| | | Net Change by Change Orders | $0.00 |
| | | Contract Sum to Date | $498,750.00 |
| | | Total Completed to Date | $463,000.00 |
| | | Anticipated Completion Date | Aug-23 |
| 2022 Des Moines Water Main Replacement - Contract 1 | Construction is substantially complete. Punchlist items remain. | Contractor | Synergy Contracting, LLC |
| | | Notice to Proceed | 7/29/2022 |
| | | Original Contract Sum | $1,486,413.00 |
| | | Net Change by Change Orders | $13,233.50 |
| | | Contract Sum to Date | $1,499,646.50 |
| | | Total Completed to Date | $1,678,951.24 |
| | | Anticipated Completion Date | Aug-23 |

Item IV-D

| | | | |
|---|---|---|---|
| McMullen High Service Pump Building HVAC and Roofing Upgrades | Construction in progress | Contractor | Brockway Mechanical & Roofing Co., Inc. |
| | | Notice to Proceed | 4/17/2023 |
| | | Original Contract Sum | $233,094.00 |
| | | Net Change by Change Orders | $6,950.00 |
| | | Contract Sum to Date | $240,044.00 |
| | | Total Completed to Date | $130,082.00 |
| | | Anticipated Completion Date | Jan-24 |
| Maffitt East Feeder Main - Valve Vault | Construction in progress | Contractor | WRH, Inc. |
| | | Notice to Proceed | 6/12/2023 |
| | | Original Contract Sum | $1,280,000.00 |
| | | Net Change by Change Orders | $0.00 |
| | | Contract Sum to Date | $1,280,000.00 |
| | | Total Completed to Date | $62,000.00 |
| | | Anticipated Completion Date | Apr-24 |
| 2023 Des Moines Water Main Replacement - Contract 1 | Construction in progress | Contractor | Corell Contractor, Inc. |
| | | Notice to Proceed | 5/24/2023 |
| | | Original Contract Sum | $2,145,227.00 |
| | | Net Change by Change Orders | $0.00 |
| | | Contract Sum to Date | $2,145,227.00 |
| | | Total Completed to Date | $0.00 |
| | | Anticipated Completion Date | Sep-24 |

# COMPETITIVE QUOTATIONS CONTRACT STATUS FOR AUGUST 2023

Contractor
Date of Contract
Notice to Proceed
Original Contract Sum
Net Change by Change Orders
Contract Sum to Date
Total Completed to Date
Anticipated Completion Date

## PROFESSIONAL SERVICES AGREEMENTS

| Service | Selected Vendor | Date | Amount | Comments |
|---|---|---|---|---|
| Maffitt East Feeder Main Control Valve Design | Stanley Consultants | 8/6/2021 | $46,920 | COMPLETE |
| Engineering & Drafting assistance - 2021 DM WMR #4 | JEO Consulting Group | 8/16/2021 | $20,270 | COMPLETE |
| Government Relations Services - October 1, 2021 - September 30, 2022 | Woodberry Associates, LLC | 9/22/2021 | $5,000/month | COMPLETE |
| Engineering Services - Drafing water main relocations for City of Des Moines SE Connector SE 30th to US Hwy 65 | Kirkham Michael | 9/24/2021 | $10,000 | COMPLETE |
| Legislative Advocacy - October 1, 2021 - December 31, 2022 | Advocacy Strategies | 9/24/2021 | $53,125 | $10,625/qtr |
| Survey Services for 2022 WMR - SW 10th Place | Snyder & Associates | 11/9/2021 | $24,600 | COMPLETE |
| Survey Services for 2022 WMR - SW 11th Street | Snyder & Associates | 11/9/2021 | $24,600 | COMPLETE |
| Specs and Contract Documents for 2022 Tank Painting - Tenny | Dixon Engineering | 11/24/2021 | $5,125 | COMPLETE |
| Drafting and Design for City of DM 2nd Ave. Improvements Project - University Ave to 2nd Ave Bridge | Bolton & Menk | 11/22/2021 | $39,510 | |
| Survey Services for 2022 WMR - Luster Ln & SW 9th St | McClure Engineering | 12/1/2021 | $19,325 | COMPLETE |
| Specs and Contract Documents for 2022 Tank Painting - Runnells | Dixon Engineering | 12/28/2021 | $6,625 | COMPLETE |
| Communications, Public Relations - Melissa Walker | MW Media Consultants, LLC | 1/1/2022 | $4,800/month | |
| Consulting Services for Replacement of Financial Mgmt. Software | Adbo Financial Solution | 2/11/2022 | $98,400 | |
| 2022 Voice of the Customer Survey/Research | SPPG+Essman Research | 3/21/2022 | $40,000 | |
| Survey Services for 2022 Des Moines WMR - Contract 2 | Snyder & Associates | 3/22/2022 | $37,953 | |
| Diversity and Inclusion Plan | Keen Independent Research | 4/15/2022 | $49,985 | |
| Inspection Services for Tenny Standpipe painting | KLM Engineering, Inc. | 5/12/2022 | $60,295 | |
| Engineering Services - Drafing water main relocations for City of Des Moines Hamilton Drain - Phase 3 | Kirkham Michael | 6/15/2022 | $20,000 | |
| Engineering Svcs for City of DM E Court Ave from DM River to E14th St | Shive-Hattery | 6/23/2022 | $112,500 | |
| Grounds Maintenance Facility | SVPA Architects | 6/30/2022 | $118,280 | |
| Water Main Design for Windsor Heights 73rd St. Phase 1 Improvements | Bolten & Menk, Inc. | 7/14/2022 | $30,000 | |
| Development of Drafing Standards for Engineering Department | DTM Solutions | 8/30/20022 | $13,200 | |
| MicroStation Connect and OpenRoads Designer Training | DTM Solutions | 8/30/2022 | $3,800 | |
| Design, Bid, and Construction Administration Services - MWTP HVAC | Shive-Hattery | 9/26/2022 | $25,750 | |
| Engineering Services - Closed Loop Cooling Projects Planning Study | IMEG | 9/27/2022 | $23,600 | COMPLETE |
| Engineering Services - Vine Street Water Main Improvements | ISG, Inc. | 11/4/2022 | $21,600 | |
| FDWTP 5KV Study | KFI | 11/16/2022 | $38,100 | |
| DM River and NW Beaver Drive Geotechnical Exploration Services | Allender Butzke Engineers, Inc. | 11/16/2022 | $15,000 | |
| SWTP Transmission Improvements Design & Construction | Snyder & Associates | 11/28/2022 | $1,078,400 | |
| FDWTP Pumping Station HVAC - RTU Replacement | IMEG | 12/29/2022 | $84,700 | |
| Roof Relaxation Specs, Drawings and Bidding Documents | WTI | 1/18/2023 | $7,250 | |
| LP Moon ASR Pump Electrical Evaluation | AECOM | 1/20/2023 | $7,800 | |
| Hickman Feeder Main Relocation Design & Construction Services | Snyder & Associates | 1/24/2023 | $82,700 | |
| McMullen Truck Scale Improvements Engineering Services | Snyder & Associates | 1/31/2023 | $60,500 | |
| MWTP Chemical Feed Improvements Engineering Services | McClure Engineering | 2/3/2023 | $106,670 | |
| SWTP Capacity Expansion Design & Construction Services | HDR Engineering | 2/6/2023 | $12,999,057 | |
| Closed Loop Cooling Projects Design | IMEG | 3/1/2023 | $47,300 | COMPLETE |
| McKinley Ave Reconstruction from SW 9th to SW 14th | HR Green, Inc. | 3/1/2023 | $70,500 | |
| ASR at Polk County Pumping Station | Strand & Associates | 3/14/2023 | $909,400 | |
| 2023 DM WMR Contract 2 Surveying Services | McClure Engineering | 5/1/2023 | $64,746 | |
| 2023 DM WMR Contract 3 Surveying Services | McClure Engineering | 5/1/2023 | $43,158 | |
| Affordability Study | Raftelis | 5/3/2023 | $79,785 | |
| FDTP - Distribution Building Improvements | WJE | 5/31/2023 | $47,000 | |
| 2023 DM WMR Contract 4 Surveying Services | Snyder & Associates | 6/13/2023 | $26,624 | |
| FDWTP Filtration Pilot Study | CDM Smith | 6/29/2023 | $333,900 | |
| FDWTP Filter Media Replacement | CDM Smith | 7/14/2023 | $90,600 | |
| Saylorville Water Treatment Plant RO Pilot | Wigen | 8/9/2023 | $55,000 | |
| Saylorville Water Treatment Plant RO Pilot | Harn | 8/11/2023 | $62,750 | |