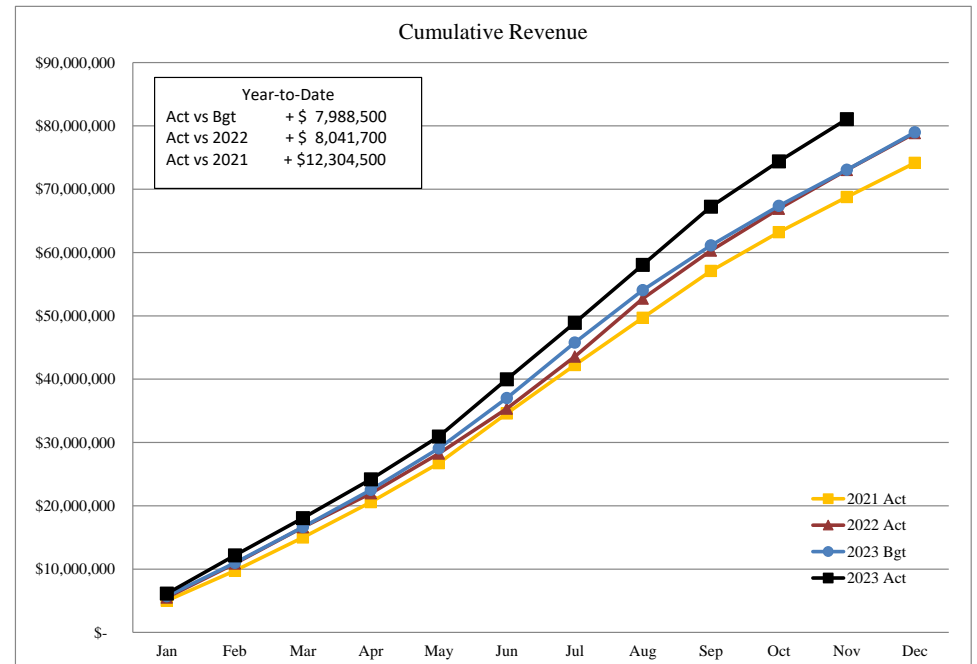
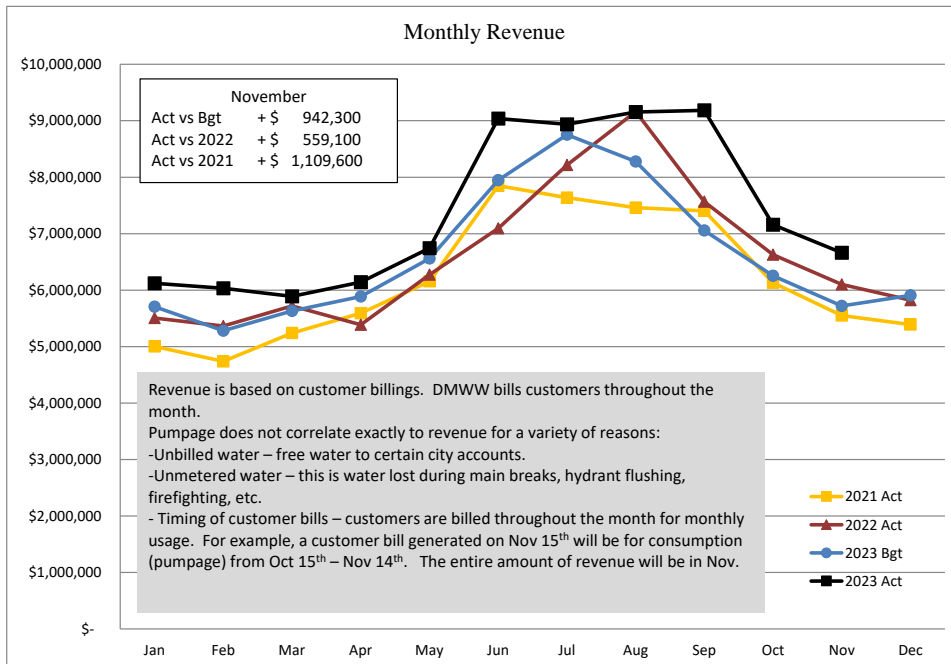
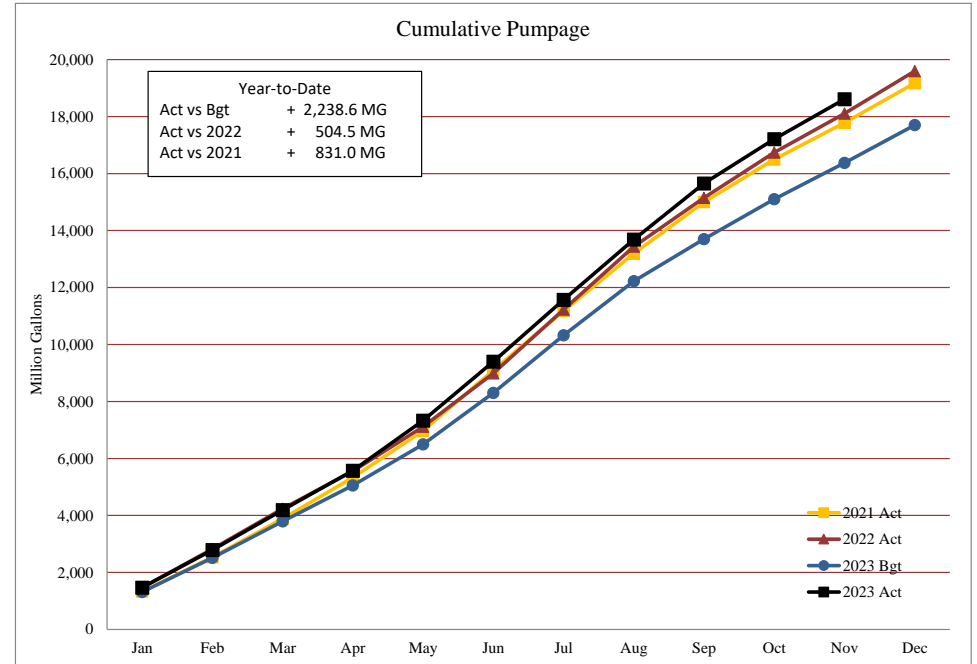
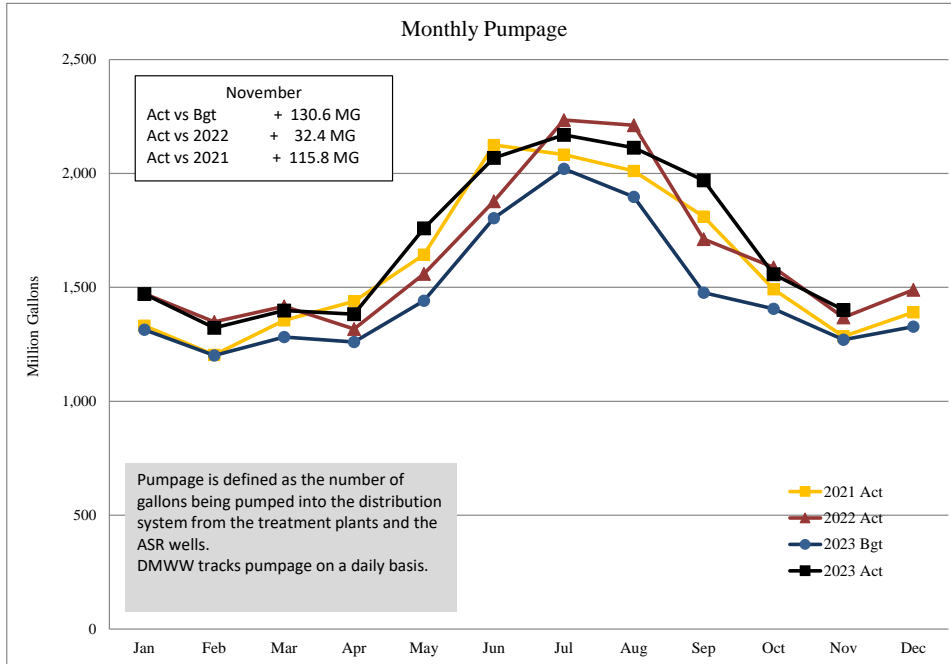


Pumpage & Revenue Graphs November, 2023



AGENDA ITEM FORM

SUBJECT: Consent Agenda

SUMMARY:

- A. Minutes, November 28, 2023, Board of Water Works Trustees Meeting
Request: Approve November 28, 2023, Minutes
Minutes, December 5, 2023, Finance and Audit Committee Meeting
Request: Approve December 5, 2023, Minutes
Minutes, December 12, 2023, Planning Committee Meeting
Request: Approve December 12, 2023, Minutes
- B. Financial Statements
- At November 2023, total assets of the Des Moines Water Works were \$502.9 million, liabilities totaled \$45.9 million, deferred outflows totaled \$11.6 million, deferred inflows totaled \$11.1 million and contributions and retained earnings were \$457.4 million.
 - Total operating revenue for the month of November was \$7.1 million. Expenses (operating and non-operating) for the month were approximately \$4.2 million, leaving net earnings of approximately \$2.9 million.
 - Request:** Receive and File for Audit the November 2023 Financial Statements.
- C. List of Payments for November 2023
Request: Approve November 2023 payments
- D. Summary of CEO-approved expenditures in excess of \$40,000
Request: Approve the CEO-approved expenditures in excess of \$40,000
- E. Next Meeting Date – January 23, 2024
Request: Approve January 23, 2024, as the date of the next meeting of the Board of Water Works Trustees.

FISCAL IMPACT:

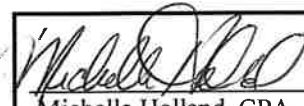
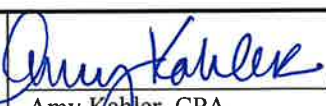
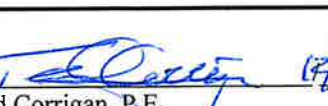
No impact to budget.

RECOMMENDED ACTION:

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

BOARD REQUIRED ACTION:

Motion to approve Consent Agenda.

 Michelle Holland, CPA Controller	12/11/23 (date)	 Amy Kahler, CPA Chief Financial Officer	12/12/23 (date)	 Ted Corrigan, P.E. CEO and General Manager	12/14/23 (date)
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Attachments: November 28, 2023, Board of Water Works Trustees Meeting Minutes; December 5, 2023, Finance and Audit Committee Meeting Minutes; December 12, 2023, Planning Committee Meeting; November 2023 Financial Statements; List of Payments; Summary of CEO-approved expenditures in excess of \$40,000

MEETING
Board of Water Works Trustees
Des Moines Water Works
December 19, 2023
2201 George Flagg Parkway
3:30 p.m.

Join Zoom Meeting
<https://us02web.zoom.us/j/87299171671?pwd=cTAxHh6YlIQZkFOZHczaWlzQkN3QT09>

Meeting ID: 872 9917 1671 Passcode: 273404

Decision Agenda

I. Consent Agenda:

- A. Minutes, November 28, 2023, Board of Water Works Trustees Meeting
Minutes, December 5, 2023, Finance and Audit Committee Meeting
Minutes, December 12, 2023, Planning Committee Meeting
- B. Financial Statements
- C. List of Payments for November 2023
- D. Summary of CEO-Approved Expenditures in Excess of \$40,000
- E. Next Meeting Date – January 23, 2023

II. Public Comment Period:

- Regional Governance

III. Action Items:

- A. Receive and File DMWW Water Rate Affordability Study
- B. Public Hearing on Central Iowa Water Works (CIWW) Transfers and Financial Adoption of CIWW Asset Transfers and Agreements
- C. Acceptance of L. P. Moon Pumping Station – Pump No. 8
- D. Environmental Review of Aquifer Storage and Recovery (ASR) Well
- E. 2023 FWTP - Pump Station HVAC Upgrades
 - a. Public Hearing
 - b. Adoption of Form of Contract, Plans and Specifications, and Estimated Cost
 - c. Analysis of Bids Received
 - d. Award of Contract and Authorization to Execute Contract
- F. 2024 Filter Media Replacement – Fleur Drive Water Treatment Plant
 - a. Public Hearing
 - b. Adoption of Form of Contract, Plans and Specifications, and Estimated Cost
 - c. Analysis of Bids Received
 - d. Award of Contract and Authorization to Execute Contract

- G. 2023 WMR Contract 4
 - a. Public Hearing
 - b. Adoption of Form of Contract, Plans and Specifications, and Estimated Cost
 - c. Analysis of Bids Received
 - d. Award of Contract and Authorization to Execute Contract
- H. Award 2023 FWTP Distribution Building Improvements – Structural Repairs
- I. Request Authorization to Solicit Bids for 2023 Des Moines Water Main Replacement – Contract 3 and Establish the Date of Public Hearing as the Date of the January 2024 Board Meeting
- J. Request Authorization to Execute the Second Amendment to Chapter 28E Agreement between Des Moines Water Works, the City of Waukee, and Xenia Rural Water District for the Waukee/Xenia Joint System Facilities
- K. Request Authorization to Reimburse the City of Des Moines for Water Main Relocations for the 16th Street Area Reconstruction and Trail Connection Project
- L. Performance Evaluation and Salary Increase for CEO and General Manager
 - The Board of Water Works Trustees may hold a closed session pursuant to Iowa Code Section 21.5(1)(i) to discuss the CEO and general manager’s performance evaluation at the request of the CEO and General Manager.

IV. Information Items:

- A. Board Committee Reports
 - Finance and Audit Committee
 - Planning Committee
 - 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

**OSHA Recordable
Injuries YTD: 7**

Motor Vehicle Injury:	1
Strain/Sprain:	5
Hearing:	1

V. Adjournment

Schedule of Board Activities – January and February Time: 3:30 p.m.		
<u>Date</u>	<u>Location</u>	<u>Meeting</u>
January 9	Board Room & Virtual	Finance & Audit Committee Meeting
January 16	Board Room & Virtual	Planning Committee Meeting
January 23	Board Room & Virtual	Board of Water Works Trustees
February 6	Board Room & Virtual	Finance & Audit Committee Meeting
February 13	Board Room & Virtual	Planning Committee Meeting
February 27	Board Room & Virtual	Board of Water Works Trustees

**MINUTES OF CALLED MEETING OF THE BOARD OF WATER WORKS TRUSTEES
PURSUANT TO NOTICE
Tuesday, November 28, 2023**

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

Board Members: Vice Chairperson, Ms. Susan Huppert, presiding; Mr. Alec Davis, Mr. Graham Gillette, and Ms. Diane Munns

Staff members: Scott Bierman, Bill Blubaugh, Pat Bruner, Caitlin Caldwell, Nathan Casey, Ted Corrigan, Kyle Danley, Doug Garnett, Amy Kahler, Mike McCurnin, Josh Russell, Laura Sarcone, Melissa Walker, Lindsey Wanderscheid, Michelle Watson, and Dylan White

Also in attendance: John Lande and Rick Malm (legal counsel)

Vice Chairperson Ms. Susan Huppert 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, October 31, 2023, Board of Water Works Trustees Meeting; Minutes, November 7, 2023, Finance and Audit Committee Meeting; Minutes, November 14, 2023, Approval of Payments for October 2023; Approval of Summary of CEO-Approved Expenditures in Excess of \$40,000; and Approval of December 19, 2023, as the next meeting of the Board of Water Works Trustees). Upon vote, the motion was adopted, with Mr. Davis, Mr. Gillette, Ms. Huppert, and Ms. Munns voting in favor of the motion.

Public Comment Period

Regional Governance - Mr. Corrigan provided an update on regionalization.

Proposed 2024 Budget

The proposed budget for 2024 is based on an estimated total operating revenue of \$91.8 million, with budgeted operating and maintenance expenditures of approximately \$60.9 million on operations, and capital expenditures budget of approximately \$69.4 million.

Vice Chairperson Huppert opened a Public Hearing for comments from the public regarding the Proposed 2024 Budget. Receiving no oral or written comments, the Public Hearing was closed.

A motion was made by Mr. Gillette and seconded by Ms. Munns to approve the 2024 Des Moines Water Works budget, as presented, and to file the same as required by law. Upon vote, the motion was adopted, with Mr. Davis, Mr. Gillette, Ms. Huppert, and Ms. Munns voting in favor of the motion.

2023 Water Treatment Chemicals

The Board considered proposals for contract chemical purchases for 2024, as presented by Staff. Details for each purchase were provided to the Board in writing.

A motion was made by Ms. Munns and seconded by Mr. Gillette to award 2024 contracts for water treatment chemical supplies to the recommended bidders, as presented. Upon vote, the motion was adopted, with each member of the Board identified as present voting in favor of the motion.

Request Authorization for CEO and General Manager to Execute Agreement for Outsourcing the Printing and Inserting of Des Moines Water Works' Customer Bills, Notices, and Letters

In August 2023, staff issued a request for proposal to outsource the printing and inserting of customer bills, letters, and notices. The request for proposal was sent to seven prospective respondents. It was also advertised on the Des Moines Water Works website. Each proposal was evaluated by an internal review team consisting of Finance, Information Technology, and Customer Service staff. Interviews and demonstrations were conducted with the top three respondents, along with reference checks. The internal review team evaluated proposals on experience, technical ability, customer experience, implementation, mail processing time, and cost. Based on this, DMWW staff recommend an agreement to be executed with InfoSend. Annual costs at current mail volumes are estimated to be at \$135,600 per year and there are no implementation costs.

A motion was made by Mr. Gillette and seconded by Mr. Davis, to authorize the CEO and General Manager to execute a Master Service Agreement with InfoSend for implementation and ongoing printing and inserting services, contingent upon negotiation of final terms and conditions acceptable to staff and subsequent review by legal counsel. Upon vote, the motion was adopted, with Mr. Davis, Mr. Gillette, Ms. Huppert, and Ms. Munns voting in favor of the motion.

Des Moines Water Works' Rules and Regulations Update

Staff and legal counsel review the Des Moines Water Works Rules and Regulations annually. Such review includes a review of fees and charges, as well as the substantive rules. Changes suggested by such review were presented for the Board's consideration.

A motion was made by Mr. Gillette, and seconded by Ms. Munns, to approve the proposed revisions to the Rules and Regulations as presented to the Board by staff, with an implementation date of January 1, 2024, and direct publication of the changes as required by statute. Upon vote, the motion was adopted, with Mr. Davis, Mr. Gillette, Ms. Huppert, and Ms. Munns voting in favor of the motion.

The following are fee changes effective January 1, 2024:

511-1

511.5 FIRE PROTECTION CHARGES

Table 511.5 Fire Protection Charges (effective January 1, 2024)

DES MOINES WATER WORKS FIRE PROTECTION CHARG

Annual charges for all unmetered fire protection connections shall be as follows:

<u>Size of Connection</u>	<u>Inside City</u>	<u>Outside City</u>
1"	\$5.00	\$8.00
2"	\$19.00	\$30.00
3"	\$45.00	\$65.00
4"	\$75.00	\$120.00
6"	\$170.00	\$260.00
8"	\$300.00	\$ 470.00
10"	\$ 490.00	\$ 730.00
12"	\$ 700.00	\$ 1,050.00

511.5.1 Annual charges for all unmetered fire protection connections shall be at rates established by the Board.

511.5.2 Fire protection service charges will be determined as follows:

511.5.2.1 One tenant + one building + one connection to Des Moines Water Works owned and/or operated distribution system = one charge according to size.

511.5.2.2 One tenant + one building + more than one connection to Des Moines Water Works owned and/or operated distribution system = each connection charged by size.

511.5.2.3 Shopping centers, industrial, and apartment complexes shall be charged for each fire service connection to the Des Moines Water Works owned and/or operated distribution system by size.

511-2

511.5.3 An additional charge shall be made for filling gravity or pressure storage tanks based on the total storage capacity of such tanks at the prevailing rate charged for water at the location.

511.5.4 The annual stand-by charge for fire service to a private property shall be paid by the owner of the property which is served. If such property is owned by a public agency or it is a part of a public thoroughfare, the responsible agency or government desiring to establish and maintain the service must agree in writing to make the

payments and show evidence of their ability to make proper levy to obtain funds for such purpose.

511.6 SYSTEM DEVELOPMENT FEES

Table 511.6 System Development Fee Structure (effective January 1, 2024)

System development fees are required for all new water services in the City of Des Moines, Pleasant Hill, Cumming, Alleman, and other areas as defined below. System development fees are charged to aid in covering the costs associated with production, distribution, pumping, and storage facilities that have been or will be constructed to support new and additional demands on the water system that arise with new customers and connections. System Development Fees will be based on the tap size and are as follows:

Des Moines

	1 inch	2 inch	3inch*	4 inch	6 inch	8 inch	12 inch
Metered							
Connections:	\$560	\$1,400	\$4,450	\$12,800	\$33,600	**	**
Fire Service							
Connections:	\$180	\$470	n/a	\$4,325	\$11,200	\$23,400	\$37,400

511-3

Pleasant Hill

	1 inch	2 inch	3 inch*	4 inch	6 inch	8 inch	12 inch
Metered							
Connections:	\$1,675	\$1,675	\$4,450	\$12,800	\$33,600	**	**
Fire Service							
Connections:	\$560	\$560	n/a	\$4,325	\$11,200	\$23,400	\$37,400

Cumming

	1 inch	2 inch	3 inch*	4 inch	6 inch	8 inch	12 inch
Metered							
Connections:	\$1,025	\$1,900	\$1,900	\$9,000	\$27,700	**	n/a

Fire Service Connections:	\$1,200	\$1,500	n/a	\$3,900	\$10,100	\$21,100	n/a
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Alleman

	1 inch	2 inch	3 inch*	4 inch	6 inch	8 inch	12 inch
Metered Connections:	\$ 2,800	\$ 4,525	\$ 4,525	\$ 12,800	\$ 33,600	**	n/a
Fire Service Connections:	\$ 930	\$ 1,500	n/a	\$ 4,325	\$ 11,200	\$ 23,400	n/a

All Other Service Areas (Outside City DM, Berwick, PCRWD #1, Runnells, Unincorporated Polk County, Unincorporated Warren County, etc.)

	1 inch	2 inch	3 inch*	4 inch	6 inch	8 inch	12 inch
Metered Connections:	\$ 2,100	\$ 4,750	\$ 4,750	\$ 12,800	\$ 33,600	**	n/a
Fire Service Connections:	\$ 700	\$ 1,600	n/a	\$ 4,325	\$ 11,200	\$ 23,400	n/a

511.6.1 *DMWW does not make 3” taps but 3” domestic connections can be teed off of the fire service for the building or property.

511-4

511.6.2 **Metered Connections 8 inches and larger will be calculated on a case-by-case basis.

511.6.3 System Development Fees for projects with both fire and domestic services, or any combination of multiple services, will be the total of all of the System Development Fees added together.

511.6.4 System Development Fees for projects with metered combination fire and domestic services (master metered) shall be considered domestic services with fees being charged accordingly.

511.6.5 System Development Fees for subdivisions will be based upon the number and size of service stubs to be installed within the subdivision. All service stubs within subdivision will be considered domestic stubs unless sufficient evidence is provided to indicate otherwise.

511.6.6 If DMWW has record that a tap previously existed at a property, System Development Fees will not be required for replacement taps of equal size. Existing taps that are less than one inch in diameter and are being replaced with new one-inch taps will not require System Development Fees. Any replacement tap that is to be a larger size than the original tap, other than upsizing to a one-inch diameter tap, will require a fee that will be the difference between the fee for the new tap size and the fee for the original tap size

511-5

511.7 UNIFORM TAP CHARGES

Table 511.7 Uniform Tap Charges (effective January 1, 2024)

Tap Size	1" *	2" **	3"***	4"	6"	8"	12"
2" Main	\$ 410						
4" Main	\$ 410	\$ 1,525		\$ 2,400			
6" Main	\$ 410	\$ 1,525		\$ 2,700	\$ 3,125		
8" Main	\$ 410	\$ 1,525		\$ 2,750	\$ 3,125	\$ 4,050	
10" Main	\$ 410	\$ 1,625		\$ 2,900	\$ 3,250	\$ 4,050	
12" Main	\$ 410	\$ 1,725		\$ 2,900	\$ 3,250	\$ 4,150	\$ 6,500
14" Main	\$ 410	\$ 2,025		\$ 2,900	\$ 3,300	\$ 4,150	\$ 6,500
16" Main	\$ 410	\$ 2,225		\$ 3,300	\$ 3,300	\$ 4,150	\$ 6,800

511.7.1 All taps larger than 12" and all mains larger than 16" to be tapped for any size will be done on a labor-and-materials basis. Price estimates may be quoted on request.

511.7.2 *The fee for 1" taps on ASTM D2241 pipe in the former SE Polk system which require a tapping saddle will be \$470.

511.7.3 **The fee for 2" taps made on 16" PVC, which will require a tapping

saddle, will be \$3,475.

- 511.7.4 ***DMWW does not make 3” taps but 3” domestic connections can be teed off of the fire service for the building or property. See 511.6 above for System Development Fees related to 3” domestic connections.

511-6

- 511.7.5 City of Des Moines projects funded with expenditures from the City of Des Moines general fund are not required by these rules to pay system development fees. Any projects funded by expenditures from a City of Des Moines enterprise fund must still pay system development fees.

511.8 UNIFORM TAP RETIREMENT CHARGES

Table 511.8 Uniform Tap Retirement Charges (effective January 1, 2024)

Tap retirement charges are based on the size of the main that is tapped, rather than the size of the tap.

Main Size	Fee
2”	\$ 1,225
3”	\$ 1,375
4”	\$ 1,525
6”	\$ 1,650
8”	\$ 1,750
10”	\$ 2,150
12”	\$ 2,750
14”	\$ 3,125

Charges for retirements on concrete mains or mains larger than 14" will be the current prices for materials and labor.

- 511.8.1 Tap retirement charges for other than corporations are based on the size of the main that is tapped, rather than the size of the tap. Charges for retirements on concrete mains and mains larger than 14" will be the current prices of materials and labor.

511.9 METERS

- 511.9.1 Damaged or lost meters will be replaced by Des Moines Water Works and charged to the owner at current market value, plus necessary labor for repair or replacement.

- 511.9.2 Charges for damaged meters larger than those priced on the Schedule of Charges will be the actual costs of materials and labor for repair or replacement.

511-7

- 511.9.3 Des Moines Water Works will test any meter upon application by the customer. If the meter testing results fall within American Water Works Association (AWWA) standards, the customer will be billed a fee equal to one (1) hour of labor at the labor rate stated in 511.20.

Table 511.9.1 Coupling Fees (effective January 1, 2024)

Size	Fee	
5/8"	\$15.00 each	16.00
5/8" x 3/4"	\$19.00 each	20.00
3/4"	\$18.00 each	19.00
1"	\$26.00 each	28.00
1 1/2"	\$110.00 each	115.00
2"	\$160.00 each	165.00

Table 511.9.2 Meter Measuring Chamber Fees (effective January 1, 2023)

Size	Fee	
5/8"	\$39.00	41.00
3/4"	\$45.00	47.00
1"	\$88.00	92.00
1 1/2"	\$200.00	210.00
2"	\$267.00	280.00

Table 511.9.3 Meter Fees (effective January 1, 2023)

Size	Fee	
5/8"	\$133.00	139.00
3/4"	\$171.00	179.00
1"	\$235.00	246.00
1 1/2"	\$470.00	493.00
2"	\$634.00	665.00

511-8

511.10 DAMAGED OR LOST METER READING SYSTEM EQUIPMENT

Table 511.10 Damaged or Lost Meter Reading System Equipment (effective January 1, 2024)

3-pair cable	\$2.00/foot	
Underground cable	-\$1.00/foot	
	2.00/feet	
Meter head 5/8", 3/4"	-\$106.00	111.00
Meter head 1", 1 1/2", 2"	-\$106.00	111.00
Single port MTU	\$178.00	185.00
Dual port MTU	\$215.00	
Upcharge for dual port MTU for secondary meter	\$42.00	
Pressure regulator valve	-\$135.00	141.00

511.11 EQUIPMENT

Table 511.11 Equipment Fees

Standard Vehicle	\$20.00/hour
Valve Operation Truck	\$30.00/hour
Distribution Repair/Maintenance Equipment	
• Crew Van	\$40.00/hour
• Tapping Truck	\$40.00/hour
• Dump Truck	\$65.00/hour
Heavy Construction Equipment	
• Rubber Tire Backhoe	\$65.00/hour
• Loader	\$60.00/hour
• Track Backhoe	\$100.00/hour

511.12 CHARGES FOR UNAUTHORIZED USE OF WATER/METERING TAMPERING

First unauthorized use \$250.00, plus estimated water usage at the applicable rate structure

Second and Subsequent unauthorized use

\$500.00, plus estimated water usage at the applicable rate structure

Third unauthorized use Will terminate water service up to and including cutting water service at main at owner's expense.
511-9

511.13 CHARGES FOR UNAUTHORIZED TAP

511.13.1 If an unauthorized tap is made, DMWW will excavate and inspect the tap. The property owner will be charged for time and materials spent

completing this task including backfill and restoration. Labor and equipment will be charged at the current rates documented in these Rules and Regulations. If the tap passes our inspection, the property owner will be charged any applicable system development fees and taps fees. The property owner will also be subject to charges for the unauthorized use of water/metering tampering (See 502.4 Unauthorized Use of Unmetered Water).

511.13.2 If the unauthorized tap does not meet current Des Moines Water Works Rules and Regulations and/or material standards, DMWW will cut the water service at main at the property owner's expense. The property owner will be charged for time and materials spent completing this task including backfill and restoration. Labor and equipment will be charged at the current rates documented in these Rules and Regulations. The property owner will also be subject to charges for the unauthorized use of water/metering tampering (See 502.4 Unauthorized Use of Unmetered Water).

511.14 CHARGES FOR UNAUTHORIZED USE OF FIRE HYDRANT

First unauthorized use	\$570 plus service inspection cost and cost of repairs, if applicable
Second unauthorized use	\$1,125 plus service inspection cost and cost of repairs, if applicable
Third unauthorized use	\$1,700 plus service inspection cost and cost of repairs, if applicable

511.15 DEPOSIT FOR HYDRANT METER (effective January 1, 2024)

3/4"	\$750.00	
1"	\$950.00	
2"	\$1800.00	
3"	\$2250.00	\$2,500.00

511-10

511.16 CHARGES FOR THE USE OF HYDRANT METERS

Monthly Availability Charge:

3/4" Garden Meter	\$30.00
1" Hydrant Meter	\$55.00
2" Hydrant Meter	\$115.00
3" Hydrant Meter	\$225.00

Late Fee: \$20.00 per day if Hydrant Meter is not returned by agreed upon date.

Failure to Report a Monthly Hydrant Meter Read: \$20.00 per day until read is submitted according to instructions provided at the time of rental.

511.17 TERMINATION FEE FOR COLLECTIONS (effective January 1, 2024)

511.17.1 A termination fee of \$ 70.00 will be applied to all accounts when a water service is terminated or attempted to be terminated due to non-payment of charges. This fee includes the restoration of water service once the termination amount is paid.

511.17.2 An additional after-hours service restoration fee will be applied when restoration of water service is requested according to the hours shown below.

511.20 LABOR

Standard Hourly Labor Rate	\$ 75.00/hour
Overtime Hourly Labor Rate	\$110.00/hour

511.20.1 Other labor charges for work completed by Des Moines Water Works may be calculated based upon specific wage rates with the appropriate multiplier in lieu of the standard hourly rate.

511.21 COMPUTERIZED LEAK PINPOINTING

~~\$200.00 hour~~—250.00 hour

511.22 RETURNED CHECK	\$30.00
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511.23 DEPOSIT FOR TENANTS(effective January 1, 2024)	\$ 110.00
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511.24 FIRE HYDRANT FLOW TEST (effective January 1, 2024)	\$ 300.00
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511-13

511.25 CREDIT CARD CONVENIENCE (via website or telephone only, charged by third-party processor)	\$2.95
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511.26 PUBLIC RECORDS REQUEST FEES

511.26.1 Fees for public records requests as outlined in Section 516 shall be actual costs incurred for search, retrieval, compilation and examination, excluding overhead. Costs for copying shall be \$1.00 for first page and \$0.25 per page thereafter, or actual costs incurred if an outside printing vendor is utilized.

511.28 INSPECTION FEES FOR NEW WATER MAIN EXTENSIONS (Revised January 2024)

Fees shall be charged for construction inspection and related as built drawings for installation of all new water main extensions.

Base Inspection Fee	\$ 600.00
Inspection Fee Unit Cost – first 1,000 ft.	\$ 4.50/ft.
Inspection Fee Unit Cost – all additional footage	\$ 3.00/ft.

Inspection fees of water main extensions shall be paid prior to issuance or approval of IDNR Construction Permit.

Illustrative Example: Installation of 1500 feet of eight-inch water main for Hawkeye Development on Cyclone Avenue.

Base Inspection	\$ 600
First 1,000 feet (1000 x 4.50)	\$ 4,500
Additional 500 feet (500 x 3.00)	<u>\$ 1,500</u>
Total	\$ 6,600

511.29 PLAN REVIEW FEE FOR NEW WATER MAIN EXTENSIONS (Revised January 2024)

Fees shall be charged for plan review of all new main extensions.

Base Plan Review Fee	\$ 600.00
Unit Cost Plan Review Fee	\$.30/ft.
Construction Permit Fee (DMWW issued IDNR Permits)	\$.30ft.

Plan review fees for water main extensions are to be paid at the time materials are submitted for review.

Illustrative Example: Installation of 1500 feet of eight-inch water main for Hawkeye Development on Cyclone Avenue.

Base Plan Review	\$ 600.00
Unit Cost Review (1,500 x \$.30)	\$ 450.00
DMWW issued IDNR Permit (1,500 x \$.30)	<u>\$ 450.00</u>
Total	\$ 1,500.00

Fees shall be charged for construction inspection and related as built drawings for installation of all new large taps.

Base Inspection Fee	\$150.00
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511.31 TWO-INCH AND LARGER WATER SERVICE PLAN REVIEW FEE (Revised January 2024)

Des Moines Water Works Engineering Department shall review all two-inch and larger water service connections. Payment for plan review will be required at the time the formal request is issued to Des Moines Water Works.

Plan Review Fee – One Tap	\$ 450.00
Plan Review Fee – Two or More Taps	\$ 750.00

Plan review fees for large water services are to be paid at the time materials are submitted for review.

511.32 ADMINISTRATION FEE FOR CONTRACTED STOP BOX REPAIR
\$90.00

511.32.1 Fee charged to customers when stop box repairs are completed by DMWW's contracted plumber.

511.33 SUBMETERING FEES

Fees for submetering contracts as outlined in Section 509.3.4 are charged to the property owner and are as follows:

- \$500 one-time administrative fee
- \$50 per submetered account for billing system set up
- Meter, MTU, and labor charges as outlined in these Rules & Regulations

In addition, a monthly meter reading fee of \$2.75 will be charged to the customer of each submeter on their monthly bill.

511-17

511.34 S.E. POLK ANNEXATION ASSET/SERVICE TERRITORY TRANSFER
(moved from previous Section 514) (Revised January 1, 2024)

Des Moines Water Works purchased SE Polk Rural Water District in April 2004. The purchase of this district was completed to provide a more economical way to stimulate the growth of cities into the SE Polk District. As annexation occurs in these areas, it is intended that these customers become customers of the city that annexes such area of the district.

The city annexing the area into its service territory shall pay Des Moines Water Works for the service territory acquired based on the number of existing

customers connected to the water system.

For annexing cities that receive their water supply from DMWW, the buy-out shall be \$ 4,100 per existing residential customer.

For annexing cities who do not receive their water supply from DMWW, the buy-out shall be \$ 6,400 per existing residential customer.

The buy-out of existing commercial and industrial customers will be determined on a case-by-case basis.

511.35 BACKFLOW FEES (Revised January 2024)

511.35.1 An administration fee of \$15.00 per backflow prevention assembly shall be applied to the customers' account annually.

511.35.2 A \$100.00 late fee will be applied to the customer's account if the report of annual test of a containment backflow prevention assembly as required by Rule 506.4.7 is not received by the Backflow Program Manager within fifteen (15) days of the Annual Backflow Test Date.

An additional \$200.00 late fee will be applied to the customer's account if such report is not received within thirty (30) days of the Annual Backflow Test Date.

511.36 PRIVATE FIRE HYDRANT MAINTENANCE FEE \$120.00/hydrant

511-18

511.37 ADMINISTRATION FEE FOR BILLED SERVICES \$25.00

511.36.1 Fee charged to customers when DMWW completes a billed service.

Request Authorization to Execute a Service Territory Transfer Agreement with Warren Water District

As part of Central Iowa Water Works ("CIWW") discussions, a consensus has been reached on how to address potential service territory disputes among members due to annexation. Because there is not a good "one size fits all" approach to service territory disputes, the approach accepted by potential Members and reflected in the CIWW 28E/28F is to rely on individual service territory agreements between affected Members, generally a city or independent board of trustees and a rural water district. The Warren Water District Board of Directors ("WWD"), a potential Member to CIWW, has agreements with adjoining communities, such as Norwalk and West Des Moines Water Works ("WDMWW"). As a condition to becoming a member to CIWW, Warren has expressed interest in also having a service territory agreement with DMWW in place prior to the effective date of CIWW.

A motion was made by Ms. Munns and seconded by Mr. Gillette to authorize the CEO and General Manager to execute the Customer and Territory Buy-Out Agreement between Des Moines Water Works and Warren Water District. Upon vote, the motion was adopted, with Mr. Davis, Mr. Gillette, Ms. Huppert, and Ms. Munns voting in favor of the motion.

Resolution Conditionally Authorizing the Inclusion of Board of Water Works Trustees of the City of Des Moines, Iowa as a Founding Agency of Central Iowa Water Works and Setting Public Hearing on Transfer of Assets

Discussions to form a regional production utility, Central Iowa Water Works (CIWW) have been occurring in earnest since 2017, when representatives from Des Moines Water Works, Urbandale Water Utility and West Des Moines Water Works launched a study into regional governance options. A national financial consultant specializing in utility management was retained. A group representing communities across the metro met in open meetings throughout 2018 and 2019. A number of options were considered. A group consisting of representatives from DMWW, UWU, and WDMWW continued to meet through the months of the pandemic in 2020 and 2021 and published an Outcomes Document in November 2021 broadly defining the framework of a cooperative agreement governing drinking water production in the DM metro.

The Board approved a “Central Iowa Water Works Founding Resolution” in December 2021 stating the Board’s desire to participate as a Founding Agency of CIWW, subject to acceptable terms in a 28E/28F and a “critical mass” of participation among potential members. Throughout 2022 and 2023, several drafts of a 28/28F Agreement have been distributed, revised, and edited based on comments received from all potential members. Participating in CIWW provides benefit to DMWW and our customers, including collaborative planning and management of water resources, equitable sharing of system costs and risks, and system resiliency.

A motion was made by Mr. Gillette and seconded by Mr. Davis to pass the Resolution Conditionally Authorizing the Inclusion of Board of Water Works Trustees of The City of Des Moines, Iowa as a Founding Agency of Central Iowa Water Works and Setting Public Hearing on Transfer of Assets. Upon vote, the motion was adopted, with Mr. Davis, Mr. Gillette, Ms. Huppert, and Ms. Munns voting in favor of the motion.

Proposed 2024 Schedule for Board of Water Works Trustees Meetings

A motion was made by Mr. Davis, and seconded by Ms. Boulton, to adopt the proposed 2024 schedules for regular meetings of the Board of Water Works Trustees and for Committee meetings, as presented and attached to these minutes. Upon vote, the motion was adopted, with Mr. Davis, Mr. Gillette, Ms. Huppert, and Ms. Munns voting in favor of the motion.

IDOT Polk 35-80 Hickman Interchange

In September 2023, the Board of Water Works Trustees authorized staff to solicit bids for the IDOT Polk 35-80 Hickman Interchange project. The public hearing was established as the date of the November 2023 Board meeting. Plans, specifications, and contract documents were taken out by several prospective bidders. Five bids were submitted on November 7, 2023. The engineer’s estimate for this contract is Base Bid A: \$1,443,000.00 – Base Bid B: \$1,377,000.00.

Staff recommends the Board award the IDOT Polk 35-80 Hickman Interchange project to J&K Contracting, in the amount of \$1,234,567.00.

A Public Hearing was opened by Vice Chairperson Huppert for comments from the public regarding the form of contract, plans and specifications, and estimated cost for the construction of the IDOT Polk 35-80 Hickman Interchange. Receiving no oral or written comments, the Public Hearing was closed.

After an analysis of the bids received was presented and considered, a motion was made by Mr. Gillette, seconded by Ms. Munns, to award IDOT Polk 35-80 Hickman Interchange contract, in the amount of \$1,234,567 and to authorize the Chairperson and the CEO and General Manager to execute the contract. Upon vote, the motion was adopted, with Mr. Davis, Mr. Gillette, Ms. Huppert, and Ms. Munns voting in favor of the motion.

2023 MWTP Chemical Feed Improvements

At its September 2023 meeting, the Board of Water Works Trustees authorized staff to solicit bids for the 2023 MWTP Chemical Feed Improvements project. The Public Hearing was established as the date of the November 2023 Board meeting. Plans, specifications, and contract documents were taken out by several prospective bidders. Three (3) bids were submitted on October 24, 2023. The engineer's estimate for the Lump Sum Bid and both alternates was \$1,165,400. Staff recommends Alternate 1 and Alternate 2 be included in the scope and for the Board to award the 2023 MWTP Chemical Feed Improvements to WRH, Inc., in the amount of \$1,255,000.00.

A Public Hearing was opened by Vice Chairperson Huppert for comments from the public regarding the form of contract, plans and specifications, and estimated cost for the construction of the 2023 MWTP Chemical Feed Improvements. Receiving no oral or written comments, the Public Hearing was closed.

After an analysis of the bids received was presented and considered, a motion was made by Mr. Gillette, seconded by Ms. Munns, to award 2023 MWTP Chemical Feed Improvements project, in the amount of \$1,255,000.00 and to authorize the Chairperson and the CEO and General Manager to execute the contract. Upon vote, the motion was adopted, with Mr. Davis, Mr. Gillette, Ms. Huppert, and Ms. Munns voting in favor of the motion.

Request Authorization for CEO and General Manager to Execute Agreements for Professional Services for UF 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 ultrafiltration (UF) 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 testing that was sent to interested parties. Since this will be considered a regional asset, the Central Iowa Water Works Technical Committee (TC) voted on approving the UF pilot testing to an amount of up to \$260,800. There were no dissenting opinions from the remaining members of the TC.

Staff recommends a Professional Services Agreement with Wigen Water Technologies in the amount of \$79,750, Aqua Aerobics Inc. in the amount of \$63,200, and Harn R/O Systems, Inc. in the amount of \$99,750 to conduct UF membrane pilot skid testing contingent upon negotiation of terms and conditions acceptable to staff and subsequent review by legal counsel. Total cost is anticipated to be \$242,700.

A motion was made by Mr. Gillette and 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 \$79,750, Aqua Aerobics, Inc. in the amount of \$63,200, and Harn R/O Systems, Inc. in the amount of \$99,750 to conduct UF membrane pilot testing contingent upon negotiation of terms and conditions acceptable to staff and subsequent review by legal counsel. Upon vote, the motion was adopted, with Mr. Davis, Mr. Gillette, Ms. Huppert, and Ms. Munns voting in favor of the motion.

Request Permission to Establish the Date of the Public Hearing for Ground Lease Agreement with USCOC for Greater Iowa, LLC., at Tenny Standpipe as the Date of the January Board Meeting

In February 2005, the Board of Water Works Trustees executed an Option and Ground Lease Agreement with USCOC of Greater Iowa doing business as U.S. Cellular (U.S. Cellular). This lease agreement granted U.S. Cellular an exclusive lease to 600 square feet (30 feet by 20 feet) at the Tenny Standpipe property on Merle Hay Road. As such, the original lease agreement between DMWW and U. S. Cellular that is currently in effect expires on November 30, 2025. U.S. Cellular has requested the existing lease agreement with DMWW at the Tenny Standpipe site be extended. Staff recommends the Board establish the date of Public Hearing to consider the replacement Ground Lease Agreement with U.S. Cellular at the Tenny Standpipe site as the date of the January 2024 Board meeting.

A motion was made by Mr. Gillette and seconded by Ms. Munns to establish the date of Public Hearing to consider the replacement Ground Lease Agreement with U.S. Cellular at the Tenny Standpipe site as the date of the January 2024 Board meeting. Upon vote, the motion was adopted, with Mr. Davis, Mr. Gillette, Ms. Huppert, and Ms. Munns voting in favor of the motion.

Request Permission to Issue a Purchase Order for Parts and Repairs of the Des Moines River Intake Gates

Screening equipment for the Des Moines River Intake is currently in need of major repair. Conducting repairs requires water flow into the structure to be stopped and the interior space to be pumped dry. The facility features sluice gates that isolate the interior structure from the river to stop water flow. The sluice gates are not functioning properly due to operational hardware being worn and deteriorated. Water Production staff solicited competitive bids for the required sluice gate parts and repairs. They received two qualified bids. A bid of \$298,006 was received from Baker Group. A bid of \$241,638 was received from The Waldinger Corporation. Both bids adequately covered the necessary repairs. Engineering staff recommends awarding a Purchase Order to The Waldinger Corporation, the lowest responsive bidder.

A motion was made by Ms. Munns and seconded by Mr. Gillette to authorize staff to issue a Purchase Order to The Waldinger Corporation, in the amount of \$241,638.00, for providing parts and repairs of the Des Moines River Intake Gate. Upon vote, the motion was adopted, with Mr. Davis, Mr. Gillette, Ms. Huppert, and Ms. Munns voting in favor of the motion.

Request Authorization to Solicit Bids for Saylorville Water Treatment Plant (SWTP) West Feeder Main Phase 3 and Establish the Date of the Public Hearing As the Date of the February 2024 Board Meeting

The Saylorville Water Treatment Plant (SWTP) West Feeder Main Phase 3 project will consist of approximately 8,100 feet of 36” transmission main, 3,000 feet of 48” transmission main, appurtenances, utility relocations, pavement replacement, site restoration, and other correlated work. The project is being designed for the use of either Ductile Iron or Prestressed Concrete Cylinder piping materials to facilitate competition and improved pricing. The work is planned to begin in the spring of 2024 and be completed in the 2025 construction season. The project was presented to the Central Iowa Water Works Technical Committee on November 8th, 2023. The Technical Committee discussed the revised cost estimate (near \$15 million) relative to the cost estimate completed as part of preliminary engineering (near \$10 million). Approximately \$2 million of this cost difference is attributable to upsizing 3,000 feet from 36-inch to 48-inch. The bulk of the difference between the preliminary and current cost estimates is attributable to material cost increases to the present day that were not fully captured in the preliminary estimating effort.

A motion was made by Ms. Munns and seconded by Mr. Davis to authorize staff to solicit bids for SWTP West Feeder Main Phase 3 project and establish the date of the Public Hearing as the date of the February 2024 Board meeting, and direct staff to publish notice as provided by law.

Request Authorization for CEO and General Manager to Execute Professional Services Agreement with Snyder & Associates, Inc., for 2023 Des Moines Water Main Replacement – Contract 5

Des Moines Water Works (DMWW) staff will complete the design for the following five water main replacement segments that had been partially designed and put on hold in early 2023. Budgetary estimate for 2024 construction of the streets selected for DMWW to design is \$1,198,000. 33rd Street from College Ave to 1630 33rd St, Mondamin Avenue from 33rd St to 32nd St, 32nd Street from Mondamin Ave to College Ave, 6th Avenue from High St to 809 6th Ave, and Park Street from 6th Ave to 7th St. The anticipated design fee stated in Snyder & Associates’ proposal is \$98,300.

A motion was made by Ms. Munns and seconded by Mr. Gillette to authorize the CEO and General Manager to execute a Professional Services Agreement with Snyder & Associates, Inc., in the amount of \$98,300 for 2023 Des Moines Water Main Replacement - Contract 5 design services. Upon vote, the motion was adopted, with Mr. Davis, Mr. Gillette, Ms. Huppert, and Ms. Munns voting in favor of the motion.

Acquisition of Easement Saylorville Water Treatment Plant (SWTP) West Feeder Main Phase 3 from Johnston Golf Development, LLC

DMWW staff and its design consultant, Snyder & Associates, Inc., have been working with Johnston Golf Development, LLC since the spring of 2023 to coordinate the respective location of proposed improvements by both parties. Easement negotiations for the Bombers Subdivision site began in August of 2023. The Owner has agreed to grant the easement for a consideration of \$270,000. In doing so, the Owner agrees to forgo a proposed expansion of the onsite pond that would negatively affect the new pipeline alignment, and to also delay any planned improvements over the easement until after the feeder main has been constructed. DMWW and Snyder & Associates, Inc. staff evaluated a variety of easement valuation methods based on multiple site appraisals and is comfortable with the negotiated amount.

A motion was made by Mr. Gillette and seconded by Ms. Munns to authorize the CEO and General Manager to execute the easement agreement, pending final legal review, with Johnston Golf Development LLC in the amount of \$270,000 for the acquisition of a utility easement through the Bomber's Subdivision. Upon vote, the motion was adopted, with Mr. Davis, Mr. Gillette, Ms. Huppert, and Ms. Munns voting in favor of the motion.

Board Committee Reports

The following reports were provided:

- Finance and Audit Committee – A meeting was held on November 7, 2023, as reflected in the minutes thereof. Mr. Davis gave a brief summary of the meeting.
- Planning Committee – A meeting was held on November 14, 2023, as reflected in the minutes thereof. Ms. Huppert gave a brief summary of the meeting.
- Greater Des Moines Botanical Garden – Mr. Gillette highlighted that this is the last year of DMWW supporting the Botanical Garden.
- Des Moines Water Works Park Foundation – Mr. Bruner gave a brief summary of the last meeting and the events to come in 2024.

CEO and General Manager's Comments

Mr. Corrigan shared that he would be giving a presentation the following evening for the Tax Payers Association. He highlighted winter maintenance beginning for the different departments and that no real main breaks occurring yet.

Safety Update

Mr. Corrigan asked for the board to take a close look at the safety memo and talked about the graph at the bottom of the page. He highlighted that it was a pre and posttests in NeoGov specific to DMWW about heat awareness and respiratory protection. He shared that DMWW employees taking the tests showed significant improvement after going through the online course that was provided.

4:40 p.m. adjourned

**MINUTES OF MEETING OF FINANCE AND AUDIT COMMITTEE
OF THE BOARD OF WATER WORKS TRUSTEES
PURSUANT TO NOTICE**

Tuesday, December 5, 2023

3:30 p.m.

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

Board Members: Mr. Alec Davis and Ms. Diane Munns

Staff Members: Nathan Casey, Ted Corrigan, Kyle Danley, Doug Garnett, Michelle Holland, Amy Kahler, Mike McCurnin, Jenny Puffer, Laura Sarcone, Melissa Walker, Lindsey Wanderscheid, and Michelle Watson

Also in attendance: Joseph Collins and Thomas Beckley with Raftelis

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

1. Rate Affordability Study

Tom Beckley and Joe Collins presented their findings on their assessment of DMWW's water rate affordability.

2. CFO's Comments

Ms. Kahler shared that in early summer 2023 DMWW hired Raftelis Financial Consultants (Raftelis) to assess the affordability of DMWW's water rates and make recommendations on improvements that would make water more accessible to customers.

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

Meeting adjourned at 4:23 p.m.

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

Tuesday, December 12, 2023

3:30 p.m.

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

Board Members: Mr. Graham Gillette

Staff Members: Pat Bruner, Nathan Casey, Ted Corrigan, Kyle Danley, Doug Garnett, Amy Kahler, Mike McCurnin, Jenny Puffer, Melissa Walker, Lindsey Wanderscheid, Michelle Watson, and Dylan White

Also in Attendance: Threase Harms and Nick Laning (Advocacy Strategies), Gavin Clingham, Charlie Husser, and Lindsay Videnieks (Woodberry Associates)

Meeting called to order at 3:31 p.m.

1. Legislative Update

Representatives of Woodberry Associates and Advocacy Strategies, who are listed above as attendees, reviewed DMWW's 2023 federal and state legislative successes and shared the 2024 legislative priorities.

2. COO's Comments

Mr. Danley shared that even though we are currently in the third year of drought conditions both the rivers are performing well at this time. Maffitt Reservoir is full and Saylorville is one foot above the normal pool.

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

Meeting adjourned at 3:55 p.m.

BOARD OF WATER WORK TRUSTEES

2024 MEETING SCHEDULE

3:30 P.M.

January 23, 2024

February 27, 2024

March 26, 2024

April 23, 2024

May 28, 2024

June 25, 2024

July 23, 2024

August 27, 2024

September 24, 2024

October 22, 2024

November 26, 2024

December 17, 2024
(third Tuesday)

**BOARD OF WATER WORKS TRUSTEES
2024 COMMITTEE MEETING SCHEDULE
3:30 P.M.**

Finance & Audit Committee
(First Tuesday)

January 9 (2nd Tuesday)

February 6

March 5

April 2

May 7

June 4

July 9 (2nd Tuesday)

August 6

September 3

October 1

November 5

December 3

Planning Committee
(Second Tuesday)

January 16

February 13

March 12

April 9

May 14

June 11

July 16

August 13

September 10

October 8

November 12

December 10

**DES MOINES WATER WORKS
FINANCIAL STATEMENT COMMENTS
FOR THE MONTH ENDED November 30, 2023**

STATEMENT OF NET POSITION

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

Summary Net Position (in millions)

	Nov 30, 2023	Dec 31, 2022
Cash	\$19.6	\$24.4
Invested Cash	43.3	23.1
Accounts Receivable	12.8	12.0
Operating Reserves	15.2	13.4
Other Assets	10.1	7.3
Fixed Assets	618.6	618.6
Less: Accum Depreciation/Amortization	<u>(241.2)</u>	<u>(228.8)</u>
Net Fixed Assets	377.4	389.8
Construction in Progress	<u>24.4</u>	<u>9.6</u>
Total Assets	<u>502.9</u>	<u>479.6</u>
Deferred Outflows of Resources	11.6	11.6
Total Assets & Deferred Outflows of Resources	<u>514.5</u>	<u>491.2</u>
Current Liabilities	11.0	14.6
Long-Term Liabilities	32.8	32.8
Other Liabilities	<u>2.1</u>	<u>2.0</u>
Total Liabilities	45.9	49.4
Deferred Inflows of Resources	11.1	11.1
Net Position	<u>457.4</u>	<u>430.7</u>
Total Liabilities, Deferred Inflows of Resources & Net Position	<u>514.5</u>	<u>491.2</u>

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:

	November 2023	Year to date 2023	Year to date 2022
Operating Revenue	\$ 7.1 million	\$ 86.7 million	\$ 79.1 million
Operating Expenses	\$ 5.1 million	\$ 62.7 million	\$ 57.7 million
Other Income (Expense)	\$ 0.9 million	\$ 2.7 million	\$ 0.6 million
Net Earnings	\$ 2.9 million	\$ 26.7 million	\$ 22.0 million

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

OPERATING EXPENSES

Year-to-Date Ending November 30, 2023 and 2022

	YTD Nov 2023	% of Total	YTD Nov 2022	% of Total
Labor	\$ 15,524,670	31%	\$ 14,821,444	32%
Benefits	8,058,332	16%	8,188,947	18%
Purchased Services	7,552,041	15%	7,771,682	17%
Materials and Equipment	4,910,789	10%	3,764,700	8%
Chemicals	7,902,501	16%	5,874,051	13%
Utilities/Telephone	3,514,972	7%	3,032,849	7%
Insurance	1,840,002	4%	1,425,871	3%
Postage	405,256	1%	385,527	1%
Other	575,566	1%	435,063	1%
	<u>\$ 50,284,129</u>	<u>100%</u>	<u>\$ 45,700,134</u>	<u>100%</u>

PROJECT EXPENSES

Total expenditures for operating projects through November 2023 were approximately \$50.3 million or 86% of the operating budget. Overall expenditures on capital projects were approximately \$14.8 million or 18% of the capital budget.

DES MOINES WATER WORKS
Statement of Net Position
For the Period Ending November 30, 2023 and December 31, 2022

	2023	2022	Change
ASSETS			
Cash			
Petty Cash	\$ 1,900	\$ 1,900	
Interest Bearing Cash	19,625,925	24,362,029	
Total	\$ 19,627,825	\$ 24,363,929	\$ (4,736,104)
Invested Cash			
Cash on Hand	\$ 6,565,218	\$ 452,194	
U.S. Government Securities	36,715,324	22,635,308	
Total	\$ 43,280,542	\$ 23,087,502	\$ 20,193,040
Accounts Receivable			
Accounts Receivable	\$ 9,748,024	\$ 8,936,610	
Accounts Receivable Unbilled	2,914,894	2,914,894	
Accrued Interest Receivable	127,337	98,524	
Total	\$ 12,790,255	\$ 11,950,028	\$ 840,228
Board Designated Reserves			
Operating			
Cash On Hand	\$ 2,251,403	\$ 23,509	
U.S. Government Securities	12,968,033	13,383,339	
Total	\$ 15,219,436	\$ 13,406,848	\$ 1,812,588
Other Assets			
Materials in Stock Accounts	\$ 4,874,866	\$ 4,770,969	
Water Receivable Long-Term	251,454	241,040	
Lease Receivable	1,068,490	1,068,490	
Iowa Motor Fuel Tax Receivable	19	0	
Prepaid Insurance	1,141,397	937,132	
Prepaid Expense	2,817,842	487,730	
Accum Unrealized Gain/(Loss) Invest	(20,535)	(165,986)	
Total	\$ 10,133,534	\$ 7,339,376	\$ 2,794,158

DES MOINES WATER WORKS
Statement of Net Position
For the Period Ending November 30, 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	(241,236,063)	(228,831,547)	
Construction in Progress	\$ 24,429,237	9,644,209	
Total Fixed Assets	\$ 401,807,028	\$ 399,426,517	\$ 2,380,512
TOTAL ASSETS	\$ 502,858,621	\$ 479,574,199	\$ 23,284,422
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	\$ 514,455,591	\$ 491,171,169	\$ 23,284,422

DES MOINES WATER WORKS
Statement of Net Position
For the Period Ending November 30, 2023 and December 31, 2022

	2023	2022	Change
LIABILITIES			
Current Liabilities			
Accounts Payable	\$ 1,072,049	\$ 2,732,873	
Construction Payables	3,476,553	5,108,072	
Salaries and Wages Payable	664,213	1,048,736	
Accrued Leave	3,758,369	3,758,369	
State Tax Payable	370,654	323,030	
Work Comp Reserves	490,917	490,917	
Fees Collected for Other Entities	1,186,528	1,114,223	
Unclaimed Refunds	10,291	10,622	
Total	\$ 11,029,574	\$ 14,586,842	\$ (3,557,268)
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	\$ 2,116,510	\$ 2,010,429	
Project H2O	12,567	11,046	
Miscellaneous Liabilities	9,745	9,745	
Total	\$ 2,138,822	\$ 2,031,219	\$ 107,602
TOTAL LIABILITIES	\$ 45,921,714	\$ 49,371,379	\$ (3,449,666)
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	\$ 457,387,405	\$ 430,653,318	\$ 26,734,087
TOTAL LIABILITIES, DEFERRED INFLOWS OF RESOURCES & NET POSITION	\$ 514,455,591	\$ 491,171,169	\$ 23,284,422

Des Moines Water Works
Statement of Earnings and Retained Earnings
For the Month Ended November 30, 2023, the Eleven Month Endings November 30, 2023
and the Eleven Months Ending November 30, 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	\$ 6,661,036	\$ 81,062,142	\$ 78,982,504	\$ 2,079,638	\$ 73,020,419	\$ 8,041,723
Sewer Services - Runnells	7,936	86,733	77,291	9,442	84,809	1,924
Late Fees	41,995	442,164	375,000	67,164	429,511	12,653
Other Sales and Services	78,169	2,238,394	3,023,245	(784,851)	2,411,738	(173,344)
Billing Services Revenue	187,064	1,802,865	2,166,000	(363,135)	1,727,473	75,392
Land Use Revenue	15,648	192,214	216,000	(23,786)	193,589	(1,375)
Connection Fees	99,475	855,875	400,000	455,875	1,200,969	(345,094)
Cash Discount and Refunds	157	3,101	-	3,101	3,904	(803)
Total Operating Revenues	\$ 7,091,480	\$ 86,683,488	\$ 85,240,040	\$ 1,443,448	\$ 79,072,412	\$ 7,611,076
OPERATING EXPENSES						
Labor	\$ 1,335,455	\$ 15,524,670	\$ 17,714,194	\$ 2,189,524	\$ 14,821,444	\$ (703,226)
Benefits	353,510	3,790,630	4,244,600	453,970	3,620,362	(170,268)
Retirement Benefits	362,552	4,267,702	5,454,800	1,187,098	4,568,585	300,883
Postage	35,095	405,256	450,000	44,744	385,527	(19,729)
Telephone	34,326	278,248	288,735	10,487	258,175	(20,073)
Insurance	132,322	1,840,002	1,625,000	(215,002)	1,425,871	(414,131)
Casualty Loss	41,610	179,857	110,000	(69,857)	28,481	(151,376)
Loss on Bad Accounts	2,537	(13,082)	155,000	168,082	(9,630)	3,452
Purchased Services	483,842	7,552,041	10,990,850	3,438,809	7,771,682	219,641
Training	15,249	186,932	251,270	64,338	109,286	(77,646)
Materials and Equipment	385,698	4,910,789	4,371,355	(539,434)	3,764,700	(1,146,089)
Chemicals	570,925	7,902,501	8,952,971	1,050,470	5,874,051	(2,028,450)
Utilities	231,660	3,236,724	3,149,500	(87,224)	2,774,674	(462,050)
Gasoline/Fuel	319	221,859	382,680	160,821	306,926	85,067
Total Operating Expense	\$ 3,985,100	\$ 50,284,129	\$ 58,140,955	\$ 7,856,826	\$ 45,700,134	\$ (4,583,995)
Depreciation & Amort Expense	\$ 1,124,090	12,404,516	13,583,232	1,178,716	\$ 11,959,327	(445,189)
Net Income from Operations	1,982,290	23,994,843	13,515,853	10,478,990	21,412,951	2,581,892
Other Income (Expense) :						
Capital Contributions	\$ 603,150	\$ 603,150	\$ -	\$ 603,150	\$ 531,969	\$ 71,181
Investment Income	\$ 44,670	\$ 399,027	\$ 195,600	\$ 203,427	94,803	304,224
Net Change - Investment Values	255,088	1,725,651	-	1,725,651	12,284	1,713,367
Interest Income / Expense	-	8	-	8	(2,878)	2,886
Gain/Loss on Fixed Assets	-	11,408	-	11,408	-	11,408
Other Income (Expense), net	\$ 902,908	\$ 2,739,244	\$ 195,600	\$ 2,543,644	\$ 636,178	\$ 2,103,066
Net Earnings	\$ 2,885,198	\$ 26,734,087	\$ 13,711,453	\$ 13,022,634	\$ 22,049,129	\$ 4,684,958
Retained Earnings, January 1		\$ 430,653,318			\$ 396,920,642	
Ending Retained Earnings		\$ 457,387,405			\$ 418,969,771	

**DES MOINES WATER WORKS
STATEMENT OF INVESTMENT CHANGES
FOR THE MONTH ENDED NOVEMBER 30, 2023**

INVESTED RESERVES

	Balance at 10/31/2023	Additions	Deductions	Balance at 11/30/2023
Operating				
Cash on Hand	\$2,300,363	2,089,110	2,138,071	\$2,251,403
U.S. Government Securities	\$12,866,272	2,176,761	2,075,000	\$12,968,033
Total Invested Reserves	\$15,166,636	\$4,265,871	\$4,213,071	\$15,219,436

The estimated annual yield at market for 11/30/2023 was 1.83%

INVESTED OPERATING CASH

	Balance at 10/31/2023	Additions	Deductions	Balance at 11/30/2023
Operating				
Cash on Hand	\$562,987	6,002,231	-	\$6,565,218
U.S. Government Securities	\$36,594,057	121,267	-	36,715,324
Total Invested Reserves	\$37,157,044	\$6,123,498	\$0	\$43,280,542

The estimated annual yield at market for 11/30/2023 was 1.52%

**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 11/30/2023	YTD % Return
<i>Fixed Income</i>						
Mellon Capital Mgmt - Bond Market Index	5,884,782	2,055,913	(3,560,978)	71,151	4,450,869	1.42%
Neuberger Berman / Mellon / DDJ - High Yield I	2,054,249	(23,497)		186,233	2,216,985	9.13%
Principal Global Investors - Income	17,705,946	397,240	5,417	309,666	18,418,269	1.73%
<i>Large U.S. Equity</i>						
Principal Global Investors - Equity Income	6,222,871	150,268		282,807	6,655,946	4.50%
Principal Global Investors - Large Cap S&P 500 Index	2,608,625	(209,943)		523,906	2,922,588	20.91%
T. Rowe Price / Brown Advisory - Large Cap Growth	6,026,644	(997,696)		1,925,170	6,954,118	34.65%
<i>Small/Mid U.S. Equity</i>						
Robert Baird / Eagle Asset Mgmt - Mid Cap Growth III	894,171	(39,301)		98,223	953,093	11.24%
DFA / Vaughan Nelson / LA Capital - Small Cap Value II	457,533	(7,821)		32,671	482,383	7.20%
AB / Brown / Emerald - Small Cap Growth I	453,452	(21,885)		28,562	460,129	6.46%
LA Capital Mgmt / Victory - Mid Cap Value I	918,826	25,495		45,975	990,296	4.94%
<i>International Equity</i>						
Causeway / Barrow Hanley - Overseas	1,698,521	115,055		283,039	2,096,616	16.15%
Principal Global Investors / DFA - International Small Cap	769,177	(836,789)		67,612	0	8.78%
Principal Global Investors - Diversified International	3,865,020	175,443		484,365	4,524,828	12.27%
Origin Asset Management LLP - Origin Emerging Markets	1,345,371	(94,079)		86,860	1,338,152	6.69%
Total Principal Financial	\$ 50,905,188	\$ 688,403	\$ (3,555,560)	\$ 4,426,241	\$ 52,464,272	8.98%

DES MOINES WATER WORKS
Project Costs by Department - Summary
Year to Date ended November 30, 2023
92% 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	\$1,316,314	\$2,412,086	\$0	\$2,412,086	\$1,095,772	55%
Customer Service	\$4,881,857	\$5,605,717	\$0	\$5,605,717	\$723,860	87%
Engineering	\$1,939,261	\$1,776,480	\$0	\$1,776,480	(\$162,781)	109%
Finance	\$5,857,824	\$5,848,016	(\$2,886)	\$5,845,130	(\$12,694)	100%
Human Resources	\$846,933	\$956,492	\$0	\$956,492	\$109,559	89%
Information Technology	\$2,874,248	\$3,393,739	\$0	\$3,393,739	\$519,491	85%
Office of the Chief Operating Officer	\$2,216,434	\$2,818,019	\$2,886	\$2,820,905	\$604,471	79%
Water Distribution	\$7,396,488	\$8,206,335	(\$105,000)	\$8,101,335	\$704,847	91%
Water Production	\$22,954,770	\$27,124,071	\$105,000	\$27,229,071	\$4,274,301	84%
Total Operating	\$50,284,129	\$58,140,955	\$0	\$58,140,955	\$7,856,827	86%
Capital						
Office of the CEO/General Manager	\$0	\$0	\$0	\$0	\$0	No Budget
Customer Service	\$1,312,875	\$1,736,895	\$0	\$1,736,895	\$424,020	76%
Engineering	\$10,274,377	\$54,338,440	\$20,472,250	\$74,810,690	\$64,536,313	14%
Finance	\$0	\$0	\$0	\$0	\$0	No Budget
Human Resources	\$0	\$0	\$0	\$0	\$0	No Budget
Information Technology	\$660,617	\$2,140,750	\$0	\$2,140,750	\$1,480,133	31%
Office of the Chief Operating Officer	\$8,925	\$251,473	\$0	\$251,473	\$242,548	4%
Water Distribution	\$553,644	\$1,673,131	\$0	\$1,673,131	\$1,119,487	33%
Water Production	\$2,030,494	\$2,321,067	\$784,000	\$3,105,067	\$1,074,573	65%
Total Capital	\$14,840,932	\$62,461,756	\$21,256,250	\$83,718,006	\$68,877,074	18%
Total Project Costs	\$65,125,060	\$120,602,711	\$21,256,250	\$141,858,961	\$76,733,901	46%

DES MOINES WATER WORKS
Project Costs by Department - Summary
Year to Date ended November 30, 2023
92% 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	\$59,368	\$78,036	\$0	\$78,036	\$18,668	76%
996-001	CEO Department Administration	\$624,383	\$413,571	\$0	\$413,571	(\$210,812)	151%
996-030	Board Activities	\$243,578	\$1,327,026	\$0	\$1,327,026	\$1,083,448	18%
996-200	Business Strategies	\$140,036	\$188,972	\$0	\$188,972	\$48,936	74%
996-210	Project Management	\$112,601	\$98,635	\$0	\$98,635	(\$13,966)	114%
995-010	Public Policy - WS Advocate	\$136,348	\$305,846	\$0	\$305,846	\$169,498	45%
Total Operating		\$1,316,314	\$2,412,086	\$0	\$2,412,086	\$1,095,772	55%
OCEO Capital							
Total Capital		\$0	\$0	\$0	\$0	\$0	\$0
Total Office of CEO/General Manager		\$1,316,314	\$2,412,086	\$0	\$2,412,086	\$1,095,772	55%

DES MOINES WATER WORKS
Project Costs by Department - Summary
Year to Date ended November 30, 2023
92% 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	\$2,099,400	\$2,145,683	\$0	\$2,145,683	\$46,283	98%
950-100	CS Contact Ctr and Data Quality	\$868,538	\$1,200,183	\$0	\$1,200,183	\$331,645	72%
950-300	Public Relations and Communication	\$168,754	\$265,902	\$0	\$265,902	\$97,148	63%
950-500	CS Collections and Dispatch	\$446,397	\$626,014	\$0	\$626,014	\$179,617	71%
950-600	Field CS and Water Quality	\$1,298,768	\$1,367,935	\$0	\$1,367,935	\$69,167	95%
Total Operating		\$4,881,857	\$5,605,717	\$0	\$5,605,717	\$723,860	87%
Capital							
955-060	Field Customer Service Capital	\$1,284,805	\$1,736,895	\$0	\$1,736,895	\$452,090	74%
925-160	Radio Frequency - Capital	\$28,070	\$0	\$0	\$0	(\$28,070)	No Budget
Total Capital		\$1,312,875	\$1,736,895	\$0	\$1,736,895	\$424,020	76%
Total Customer Service		\$6,194,732	\$7,342,612	\$0	\$7,342,612	\$1,147,880	84%

DES MOINES WATER WORKS
Project Costs by Department - Summary
Year to Date ended November 30, 2023
92% 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	\$1,905,769	\$1,706,063	\$0	\$1,706,063	(\$199,706)	112%
940-010	Engineering Studies	\$33,492	\$70,417	\$0	\$70,417	\$36,925	48%
	Total Operating	\$1,939,261	\$1,776,480	\$0	\$1,776,480	(\$162,781)	109%
Capital							
945-010	Facility Management	\$1,740,526	\$3,956,359	\$4,351,750	\$8,308,109	\$6,567,583	21%
945-012	New ASR Well	\$788,721	\$2,750,882	\$638,000	\$3,388,882	\$2,600,161	23%
945-080	WMR - Des Moines	\$3,233,440	\$9,452,241	\$5,000,000	\$14,452,241	\$11,218,801	22%
945-090	WMR - Polk County	\$196,448	\$3,137,711	\$3,000,000	\$6,137,711	\$5,941,263	3%
945-095	WMR - Windsor Heights	\$31,397	\$28,221	\$784,000	\$812,221	\$780,824	4%
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	\$339,966	\$284,784	\$42,000	\$326,784	(\$13,182)	104%
945-210	Core Network Feeder Mains	\$928,658	\$4,165,673	\$0	\$4,165,673	\$3,237,015	22%
945-220	Fleur Drive Treatment Plant	\$916,089	\$8,945,587	\$3,675,500	\$12,621,087	\$11,704,998	7%
945-225	McMullen Water Treatment Plant	\$275,358	\$789,543	\$1,781,000	\$2,570,543	\$2,295,185	11%
945-228	Saylorville Water Treatment Plant	\$1,627,812	\$20,527,439	\$0	\$20,527,439	\$18,899,627	8%
945-230	Remote Facilities - Pumping & Storage	\$57,469	\$0	\$1,200,000	\$1,200,000	\$1,142,531	5%
945-235	Joint NW Storage, PS and Feeder Mains	\$114,591	\$0	\$0	\$0	(\$114,591)	No Budget
945-245	Joint SW Storage, PS and Feeder Mains	\$18,773	\$0	\$0	\$0	(\$18,773)	No Budget
945-250	Waukee-Xenia Feeder Main & Pump Station	\$3,259	\$0	\$0	\$0	(\$3,259)	No Budget
	Total Capital	\$10,274,377	\$54,338,440	\$20,472,250	\$74,810,690	\$64,536,314	14%
Total Engineering		\$12,213,638	\$56,114,920	\$20,472,250	\$76,587,170	\$64,373,532	16%

DES MOINES WATER WORKS
Project Costs by Department - Summary
Year to Date ended November 30, 2023
92% 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	\$938,514	\$1,034,466	(\$2,886)	\$1,031,580	\$93,066	91%
930-010	Financial Services	\$2,434,199	\$2,284,090	\$0	\$2,284,090	(\$150,109)	107%
930-086	Other Accounting Expenses	\$13,611	\$0	\$0	\$0	(\$13,611)	No Budget
930-090	Purchasing	\$104,153	\$97,989	\$0	\$97,989	(\$6,164)	106%
950-410	A/R Management	\$852,299	\$892,813	\$0	\$892,813	\$40,514	95%
970-010	Central Stores	\$104,434	\$128,179	\$0	\$128,179	\$23,745	81%
970-500	GDMBG Operations and Maintenance	\$100,135	\$100,000	\$0	\$100,000	(\$135)	100%
	Department Operating	\$4,547,345	\$4,537,537	(\$2,886)	\$4,534,651	(\$12,694)	100%
930-010	Financial Services - PILOT	\$1,310,479	\$1,310,479	\$0	\$1,310,479	\$0	100%
	Total Operating	\$5,857,824	\$5,848,016	(\$2,886)	\$5,845,130	(\$12,694)	100%
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		\$5,857,824	\$5,848,016	(\$2,886)	\$5,845,130	(\$12,694)	100%

DES MOINES WATER WORKS
Project Costs by Department - Summary
Year to Date ended November 30, 2023
92% 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	\$310,486	\$334,425	\$0	\$334,425	\$23,939	93%
910-010	Employee Relations	\$258,236	\$262,179	\$0	\$262,179	\$3,943	98%
910-060	Employment	\$165,998	\$134,901	\$0	\$134,901	(\$31,097)	123%
910-110	Compensation/Benefits	\$110,234	\$143,265	\$0	\$143,265	\$33,031	77%
910-150	Employee Learning & Growth	\$1,979	\$81,722	\$0	\$81,722	\$79,743	2%
Total Operating		\$846,933	\$956,492	\$0	\$956,492	\$109,559	89%
Capital							
Total Capital		\$0	\$0	\$0	\$0	\$0	No Budget
Total Human Resources		\$846,933	\$956,492	\$0	\$956,492	\$109,559	89%

DES MOINES WATER WORKS
Project Costs by Department - Summary
Year to Date ended November 30, 2023
92% 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	\$725,958	\$817,646	\$0	\$817,646	\$91,688	89%
920-160	Technical Services	\$264,403	\$270,953	\$0	\$270,953	\$6,550	98%
920-240	IT Development & Application Svcs	\$111,337	\$205,712	\$0	\$205,712	\$94,375	54%
920-250	IT Services	\$956,820	\$1,192,514	\$0	\$1,192,514	\$235,694	80%
920-350	System Services	\$815,729	\$906,914	\$0	\$906,914	\$91,185	90%
	Total Operating	\$2,874,248	\$3,393,739	\$0	\$3,393,739	\$519,491	85%
Capital							
925-010	Info Systems Capital	\$660,617	\$2,140,750	\$0	\$2,140,750	\$1,480,133	31%
	Total Capital	\$660,617	\$2,140,750	\$0	\$2,140,750	\$1,480,133	31%
Total Information Technology		\$3,534,865	\$5,534,489	\$0	\$5,534,489	\$1,999,624	64%

DES MOINES WATER WORKS
Project Costs by Department - Summary
Year to Date ended November 30, 2023
92% 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	\$596,107	\$857,364	\$0	\$857,364	\$261,257	70%
960-510	Risk & Incident Management	\$719,664	\$926,008	\$2,886	\$928,894	\$209,230	77%
910-240	Safety	\$246,874	\$231,620	\$0	\$231,620	(\$15,254)	107%
970-060	Grounds Maintenance	\$653,789	\$803,027	\$0	\$803,027	\$149,238	81%
	Total Operating	\$2,216,434	\$2,818,019	\$2,886	\$2,820,905	\$604,471	79%
Capital							
975-005	Grounds Maintenance Capital	\$8,925	\$251,473	\$0	\$251,473	\$242,548	4%
	Total Capital	\$8,925	\$251,473	\$0	\$251,473	\$242,548	4%
Total Office of the COO		\$2,225,359	\$3,069,492	\$2,886	\$3,072,378	\$847,019	72%

DES MOINES WATER WORKS
Project Costs by Department - Summary
Year to Date ended November 30, 2023
92% 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	\$2,249,475	\$3,204,357	\$0	\$3,204,357	\$954,882	70%
960-010	Distribution Administration	\$125,575	\$132,812	\$0	\$132,812	\$7,237	95%
960-100	Dist System Maint/Repairs	\$3,140,916	\$3,096,374	(\$105,000)	\$2,991,374	(\$149,542)	105%
960-160	Water Distribution Support	\$363,097	\$195,424	\$0	\$195,424	(\$167,673)	186%
960-180	Leak Detection	\$717,389	\$756,222	\$0	\$756,222	\$38,833	95%
960-250	Distribution Billed Services	\$800,036	\$821,146	\$0	\$821,146	\$21,110	97%
	Total Operating	\$7,396,488	\$8,206,335	(\$105,000)	\$8,101,335	\$704,847	91%
Capital							
965-010	Distribution System Improvements	\$539,631	\$1,638,831	\$0	\$1,638,831	\$1,099,200	33%
965-025	Dist Billed Services Capital	\$1,972	\$22,500	\$0	\$22,500	\$20,528	9%
965-200	Leak Detection Equipment	\$12,042	\$11,800	\$0	\$11,800	(\$242)	102%
	Total Capital	\$553,644	\$1,673,131	\$0	\$1,673,131	\$1,119,487	33%
Total Water Distribution		\$7,950,132	\$9,879,466	(\$105,000)	\$9,774,466	\$1,824,334	81%

DES MOINES WATER WORKS
Project Costs by Department - Summary
Year to Date ended November 30, 2023
92% 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	\$631,063	\$753,039	\$0	\$753,039	\$121,976	84%
970-200	Vehicle Maintenance	\$1,148,314	\$1,306,157	\$105,000	\$1,411,157	\$262,843	81%
970-360	Communication Sys Maintenance	\$22,460	\$53,064	\$0	\$53,064	\$30,604	42%
970-450	HVAC Operations & Maintenance	\$110,825	\$99,577	\$0	\$99,577	(\$11,248)	111%
980-001	Water Production Dept Admin	\$3,645,917	\$4,388,290	\$0	\$4,388,290	\$742,373	83%
980-010	Water Production Operations	\$1,162,568	\$1,189,600	\$0	\$1,189,600	\$27,032	98%
980-020	Fleur Treatment Chem/Energy	\$7,812,395	\$8,903,133	\$0	\$8,903,133	\$1,090,738	88%
980-030	McMullen Treatment Chem/Energy	\$2,540,534	\$3,231,252	\$0	\$3,231,252	\$690,718	79%
980-040	Saylorville Treatment Chem/Energy	\$1,136,302	\$1,605,047	\$0	\$1,605,047	\$468,745	71%
980-200	Fleur Plant Maintenance	\$1,615,690	\$1,893,639	\$0	\$1,893,639	\$277,949	85%
980-250	McMullen Plant Maintenance	\$397,991	\$582,851	\$0	\$582,851	\$184,860	68%
980-300	Saylorville Plant Maintenance	\$511,991	\$521,680	\$0	\$521,680	\$9,689	98%
980-350	WP Maintenance Oversight	\$169,585	\$220,992	\$0	\$220,992	\$51,407	77%
980-410	Louise P. Moon Pumping & Maint.	\$510,406	\$581,339	\$0	\$581,339	\$70,933	88%
980-420	PC PS Maintenance	\$158,775	\$160,986	\$0	\$160,986	\$2,211	99%
980-430	DM Remote Storage & Pumping	\$677,698	\$805,605	\$0	\$805,605	\$127,907	84%
980-500	Routine Laboratory Monitoring	\$647,997	\$657,139	\$0	\$657,139	\$9,142	99%
980-530	Source Water Quality	\$54,259	\$170,681	\$0	\$170,681	\$116,422	32%
Total Operating		\$22,954,770	\$27,124,071	\$105,000	\$27,229,071	\$4,274,301	84%
Capital							
985-010	Water Production Reinvestment	\$885,178	\$1,196,609	\$0	\$1,196,609	\$311,431	74%
975-010	Vehicle Capital	\$1,145,316	\$1,124,458	\$784,000	\$1,908,458	\$763,142	60%
Total Capital		\$2,030,494	\$2,321,067	\$784,000	\$3,105,067	\$1,074,573	65%
Total Water Production		\$24,985,264	\$29,445,138	\$889,000	\$30,334,138	\$5,348,874	82%

**Consent Agenda
Item 1-C**

MONTHLY SCHEDULE FOR THE MONTH OF NOVEMBER 2023

BANKERS TRUST OPERATING FUND	Investment Purchased	2,138,070.60
ACCOUNTS PAYABLE MONTHLY SCHEDULE	Weekly Check Runs	6,284,359.82
EMPLOYEE PAYROLL	Bi Weekly Payrolls	<u>906,391.94</u>
TOTAL		<u><u>\$9,328,822.36</u></u>

PAYMENTS FOR NOVEMBER, 2023

<u>Check No.</u>	<u>Paid to:</u>	<u>Description</u>	<u>Amount</u>
272520	CTI Ready Mix	Operating Concrete	\$5,225.50
272521	Tyler Baker	Safety Boots	181.85
272522	Iowa Contracting Inc	Operating Asphalt	1,080.00
272523	Carquest	Operating Vehicle Maintenance Materials	1,129.84
272524	U.S. Autoforce	Operating Vehicle Maintenance Materials	699.52
272525	Bolton & Menk Inc	Capital Contractors	4,647.50
272526	Torgerson Excavating	Operating Plumbing	1,170.00
272527	Ahlers Cooney PC	Operating Legal Fees	1,288.50
272528	Bob Brown Chevrolet Inc.	Operating Vehicle Maintenance Materials	199.24
272529	UnityPoint Health	Purchased Services	386.00
272530	IMEG Corp	Capital Contractors	5,500.00
272531	Baker Group	Operating Contractors	2,942.50
272532	Karey Alvarado	Safety Boots	91.41
272533	Daniel Alvarado	Licenses & Certifications	112.29
272534	Daniel Rule	Safety Boots	209.17
272535	FBG Services	Operating Purchased Services	11,688.00
272536	Megan Luna	Materials & Supplies	58.81
272537	TPx Communications	Operating Internet/Data	753.05
272538	Mayhew Environmental Training Associates	Operating Training	1,450.00
272539	Thyssenkrupp Elevator Corporation	Operating Purchased Services	707.08
272540	Cody Naber	Materials & Supplies	92.65
272541	Waste Solutions of Iowa	Operating Purchased Services	273.00
272542	Phoenix Security Contractors LLC	Operating Purchased Services	46,170.48
272543	Cintas	Operating Purchased Services	3,824.65
272544	Jethro's Southside	Operating Food & Beverage	111.66
272545	Canon Financial Services Inc	Operating Printing & Copies	1,557.65
272546	Midwest Wheel Companies	Operating Vehicle Maintenance Materials	134.25
272547	Iowa State University	Operating Contractors	1,000.00
272548	CDM Smith Inc.	Capital Contractors	67,474.26
272549	Midwest Office Technology Inc.	Operating Printing & Copies	1,312.15
272550	Verizon Wireless Messaging Service	Operating Telephone Services	8,114.51
272551	West Des Moines Water Works	Operating Stormwater	110.03
272552	Secretary of State	Operating Licenses & Certifications	30.00
272553	Capital City Equipment Company	Operating Vehicle Maintenance Materials	38.60
272554	Iowa One Call	Operating Purchased Services	4,824.50
272555	Garratt-Callahan Company	Operating Contractors	558.34
272556	USA Bluebook	Inventory	1,381.92
272557	Keystone Laboratories	Operating Purchased Services	253.00
272558	CFI Tire Service	Operating Vehicle Maintenance Materials	2,723.18
272559	Layne Christensen Company	Capital Contractors	265,543.05
272560	Grainger Inc.	Operating Materials & Supplies	38.46
272561	McMaster-Carr Supply Company	Inventory	354.36
272562	Municipal Supply Inc.	Operating Materials & Supplies	191.92
272563	Wigen Companies Inc	Capital Contractors	8,750.00
272564	Kut-Kwick Corporation	Operating Vehicle Maintenance Materials	62.08
272565	Capital Sanitary Supply	Inventory	60.10

PAYMENTS FOR NOVEMBER, 2023

<u>Check No.</u>	<u>Paid to:</u>	<u>Description</u>	<u>Amount</u>
272566	Smith's Sewer Service Inc.	Operating Contractors	250.00
272567	Doors Inc.	Operating Materials & Supplies	400.00
272568	Stivers	Operating Vehicle Maintenance Materials	107.61
272569	Hotsy Cleaning Systems	Operating Materials & Supplies	1,885.00
272570	Customer Refunds	Refund	53.97
272571	Customer Refunds	Refund	86.67
272572	Customer Refunds	Refund	53.37
272573	Customer Refunds	Refund	118.59
272574	Customer Refunds	Refund	44.72
272575	Customer Refunds	Refund	173.39
272576	Customer Refunds	Refund	47.27
272577	Customer Refunds	Refund	69.05
272578	Customer Refunds	Refund	121.33
272579	Customer Refunds	Refund	346.11
272580	Customer Refunds	Refund	1,442.84
272581	Customer Refunds	Refund	122.71
272582	Customer Refunds	Refund	67,404.24
272583	Customer Refunds	Refund	108.03
272584	Customer Refunds	Refund	119.96
272585	Customer Refunds	Refund	117.62
272586	Customer Refunds	Refund	664.82
272587	Customer Refunds	Refund	99.36
272588	Customer Refunds	Refund	1,085.83
272589	Customer Refunds	Refund	64.77
272590	Customer Refunds	Refund	25.91
272591	Customer Refunds	Refund	131.14
272592	Customer Refunds	Refund	155.57
272593	Customer Refunds	Refund	884.73
272594	Customer Refunds	Refund	68.83
272595	Customer Refunds	Refund	73.00
272596	Customer Refunds	Refund	160.97
272597	Customer Refunds	Refund	201.56
272598	Customer Refunds	Refund	11.85
272599	Customer Refunds	Refund	65.76
272600	Customer Refunds	Refund	110.56
272601	Customer Refunds	Refund	98.33
272602	Customer Refunds	Refund	51.62
272603	Customer Refunds	Refund	255.46
272604	Customer Refunds	Refund	62.78
272605	Customer Refunds	Refund	110.86
272606	Customer Refunds	Refund	92.75
272607	Customer Refunds	Refund	157.57
272608	Customer Refunds	Refund	128.21
272609	Customer Refunds	Refund	1,095.37
272610	Customer Refunds	Refund	1,621.96
272611	Customer Refunds	Refund	69.11

PAYMENTS FOR NOVEMBER, 2023

<u>Check No.</u>	<u>Paid to:</u>	<u>Description</u>	<u>Amount</u>
272612	Customer Refunds	Refund	29.66
272613	Customer Refunds	Refund	37.11
272614	Customer Refunds	Refund	183.86
272615	Customer Refunds	Refund	116.52
272616	Customer Refunds	Refund	43.59
272617	Customer Refunds	Refund	107.15
272618	Keystone Laboratories	Operating Purchased Services	88.50
272619	Hach Chemical Company	Operating Materials & Supplies	5,594.05
272620	Ted Corrigan	Training, Materials & Supplies	745.02
272621	Shottenkirk Chevy Waukee	Capital Vehicle Maintenance Materials	69,557.38
272622	Polk County Public Works Dept	Operating Contractors	9,638.00
272623	Polk County Treasurer	Billing Service Revenue	40,415.33
272624	Consolidated Water Solutions	Inventory	8,210.00
272625	WaterISAC	Prepaid Expense	3,470.00
272626	James Peitzman	Mileage	548.99
272627	Caitlin Caldwell	Materials & Supplies	180.31
272628	Don Staley	Safety Boots	150.06
272629	Star Equipment Ltd.	Capital Contractors	108.00
272630	Blake Dowell	Licenses & Certifications	27.50
272631	CPI International	Inventory	812.96
272632	Combined Systems Technology Inc.	Operating Materials & Supplies	670.00
272633	Stivers	Operating Vehicle Maintenance Materials	195.17
272634	Cody Mikesell	Safety Boots and Safety Clothing	304.90
272635	Valley Environmental	Operating Purchased Services	217.50
272636	Mississippi Lime Company	Inventory	6,064.17
272637	Iowa Contracting Inc	Operating Asphalt	2,016.00
272638	Melissa Goben	Mileage	46.79
272639	Harbor Freight	Operating Materials & Supplies	139.99
272640	Graybar Electric Company	Inventory	1,355.65
272641	Graybar Electric Company	Inventory	143.36
272642	Capital Sanitary Supply	Inventory	2,061.44
272643	HNTB Corporation	Capital Contractors	39,621.93
272644	Air Products	Inventory	4,394.08
272645	Storey-Kenworthy Company	Operating Office Supplies	239.94
272646	Lawson Products Inc.	Inventory	11.21
272647	Grainger Inc.	Operating Materials & Supplies	2,191.95
272648	Grainger Inc.	Inventory	948.76
272649	H & H Plumbing Inc	Operating Plumbing	184.62
272650	MSC Industrial Supply Company	Inventory	49.38
272651	MSC Industrial Supply Company	Inventory	422.34
272652	Snyder & Associates Inc.	Capital Contractors	137,646.74
272653	Verizon Wireless Messaging Service	Operating Telephone Services	4,920.27
272654	Corell Contractors	Capital Contractors	336,909.43
272655	City of Pleasant Hill	Billing Service Revenue	309,658.59
272656	City of Runnells	Billing Service Revenue	9,018.41
272657	Woodland Lake Estate Association	Woodland Lakes Estates Payable	5,889.49

PAYMENTS FOR NOVEMBER, 2023

<u>Check No.</u>	<u>Paid to:</u>	<u>Description</u>	<u>Amount</u>
272658	UPS	Operating Courier/Shipping	79.61
272659	UPS	Operating Courier/Shipping	174.36
272660	City of Cumming	Cumming Payable	10,682.76
272661	City of Alleman	Alleman Payable	14,877.16
272662	Urbandale/Windsor Heights Sanitary Dist	Billing Service Revenue	54,368.81
272663	Reppert Rigging & Hauling Co.	Capital Contractors	400.00
272664	U.S. Autoforce	Operating Vehicle Maintenance Materials	714.08
272665	SVPA Architects Inc	Capital Contractors	6,608.20
272666	DXP	Inventory	169.61
272667	City of Windsor Heights	Billing Service Revenue	74,160.91
272668	DMACC	Operating Training	3,723.00
272669	Airgas North Central	Inventory	865.89
272670	Dezurik c/o Mellen & Associates	Inventory	867.32
272671	Metro Waste Authority	Operating Contractors	156.56
272672	McMaster-Carr Supply Company	Inventory	2,325.60
272673	Polk County	Billing Service Revenue	89,261.16
272674	CTI Ready Mix	Operating Concrete	3,210.50
272675	Amazon Capital Services Inc	Operating Materials & Supplies	1,759.51
272676	Great Caterers of Iowa Inc	Operating Food & Beverage	406.80
272677	Propio Language Services	Operating Purchased Services	702.64
272678	Martin Marietta Aggregates	Capital Aggregate Materials	888.34
272679	HomeServe USA	Billing Service Revenue	237,246.83
272680	First Choice Coffee	Operating Food & Beverage	709.49
272681	The Shredder	Operating Purchased Services	87.00
272682	Acme Tools	Inventory	241.86
272683	Des Moines Register	Operating Purchased Services	1,347.53
272684	Armored Knights. Inc	Operating Purchased Services	541.20
272685	AT&T Mobility	Operating Telephone Services	113.09
272686	Hutcheson Engineering Products Inc.	Inventory	4,968.28
272687	SymTec	Operating Maintenance Contracts	2,783.82
272688	Douglas K. Oscarson	Operating Consultants	3,574.20
272689	Iowa Rural Water Association	Operating Dues and Memberships	455.00
272690	AssuredPartners Great Plains LLC	Group Insurance Premiums	1,241,690.70
272691	White Cap, L.P.	Capital Contractors	138.70
272692	State Hygienic Laboratory	Operating Purchased Services	7,141.00
272693	Bankers Trust Company	Corporate Credit Card	17,008.73
272694	Bob Brown Chevrolet Inc.	Operating Vehicle Maintenance Materials	597.31
272695	Nichols Equipment LLC	Capital Contractors	3,212.00
272696	AccuCopy	Operating Printing & Copies	176.80
272697	Iowa Public Radio	Operating Advertising	1,394.00
272698	City of Des Moines	Operating Contractors	245.00
272699	City Supply Corporation	Inventory	206.21
272700	Murphy Tractor & Equipment	Operating Vehicle Maintenance Materials	506.92
272701	Iowa State Fire Marshall Division	Operating Purchased Services	80.00
272702	Mail Services LLC	Operating Courier/Shipping	10,453.84
272703	Control Process Systems	Inventory	9,368.06

PAYMENTS FOR NOVEMBER, 2023

<u>Check No.</u>	<u>Paid to:</u>	<u>Description</u>	<u>Amount</u>
272704	Force Fitters	Operating Materials & Supplies	1,230.50
272705	Des Moines Iron Company	Operating Vehicle Maintenance Materials	1,460.45
272706	CenturyLink	Operating Telephone Services	240.39
272707	UPHDM Occupational Medicine	Operating Purchased Services	870.75
272708	McClure Engineering Company	Capital Contractors	6,518.05
272709	Blackburn Manufacturing Company	Inventory	485.40
272710	Allender Butzke Engineers Inc.	Capital Contractors	1,356.78
272711	Menard's	Operating Materials & Supplies	63.93
272712	Baker Group	Operating Contractors	556.00
272713	Image Solutions	Operating Aggregate Materials	865.85
272714	Warren Water District	Operating Purchased Services	2,866.50
272715	Electrical Engineering & Equipment Co.	Inventory	393.64
272716	Electrical Engineering & Equipment Co.	Inventory	172.60
272717	Air Filter Sales And Services Inc	Operating Materials & Supplies	159.24
272718	Commercial Supply Co	Inventory	387.50
272719	Bonnie's Barricades	Operating Contractors	9,475.35
272720	Greenfield Plaza Sanitary Sewer	Billing Service Revenue	34,860.17
272721	Roy's Towing and Recovery	Operating Purchased Services	165.00
272722	Capital City Equipment Company	Operating Vehicle Maintenance Materials	778.99
272723	Kemira Water Solutions Inc	Inventory	37,782.18
272724	All Makes Office Equip	Operating Materials & Supplies	2,026.09
272725	Dixie Petro-Chem Inc.	Inventory	9,474.24
272726	O'Halloran International	Operating Vehicle Maintenance Materials	41.10
272727	Core and Main	Inventory	11,683.77
272728	Fastenal Company	Inventory	307.16
272729	Fastenal Company	Inventory	31.00
272730	Midwest Wheel Companies	Operating Vehicle Maintenance Materials	1,443.86
272731	Electric Pump	Operating Materials & Supplies	2,452.90
272732	DMF Gardens	Operating Park Materials	34.65
272733	One Source	Operating Purchased Services	221.65
272734	Iowa Department of Natural Resources	Capital Purchased Services	100.00
272735	Customer Refunds	Refund	148.85
272736	Customer Refunds	Refund	50.87
272737	Customer Refunds	Refund	149.25
272738	Customer Refunds	Refund	94.62
272739	Customer Refunds	Refund	44.87
272740	Customer Refunds	Refund	33.88
272741	Customer Refunds	Refund	138.24
272742	Customer Refunds	Refund	59.67
272743	Customer Refunds	Refund	106.63
272744	Customer Refunds	Refund	123.60
272745	Customer Refunds	Refund	176.96
272746	Customer Refunds	Refund	8.75
272747	Customer Refunds	Refund	28.58
272748	Customer Refunds	Refund	151.40
272749	Customer Refunds	Refund	176.57

PAYMENTS FOR NOVEMBER, 2023

<u>Check No.</u>	<u>Paid to:</u>	<u>Description</u>	<u>Amount</u>
272750	Customer Refunds	Refund	24.88
272751	Customer Refunds	Refund	89.94
272752	Customer Refunds	Refund	169.46
272753	Customer Refunds	Refund	144.43
272754	Customer Refunds	Refund	712.90
272755	Customer Refunds	Refund	164.90
272756	Customer Refunds	Refund	128.69
272757	Customer Refunds	Refund	152.53
272758	Customer Refunds	Refund	91.89
272759	Customer Refunds	Refund	14.18
272760	Customer Refunds	Refund	123.27
272761	Customer Refunds	Refund	30.70
272762	Customer Refunds	Refund	160.08
272763	Customer Refunds	Refund	187.17
272764	Customer Refunds	Refund	137.89
272765	Customer Refunds	Refund	519.51
272766	Customer Refunds	Refund	6.26
272767	Customer Refunds	Refund	184.90
272768	Customer Refunds	Refund	100.58
272769	Customer Refunds	Refund	212.81
272770	Customer Refunds	Refund	152.85
272771	Customer Refunds	Refund	5.39
272772	Customer Refunds	Refund	107.39
272773	Customer Refunds	Refund	1,955.85
272774	Customer Refunds	Refund	38.17
272775	Customer Refunds	Refund	123.98
272776	Customer Refunds	Refund	101.31
272777	Customer Refunds	Refund	203.82
272778	Customer Refunds	Refund	58.45
272779	Customer Refunds	Refund	92.60
272780	Customer Refunds	Refund	139.80
272781	Customer Refunds	Refund	1,916.10
272782	Customer Refunds	Refund	146.26
272783	Customer Refunds	Refund	111.02
272784	Customer Refunds	Refund	20.88
272785	Customer Refunds	Refund	83.01
272786	Customer Refunds	Refund	81.09
272787	Customer Refunds	Refund	743.73
272788	Customer Refunds	Refund	106.38
272789	Bonnie's Barricades	Operating Contractors	2,036.70
272790	CTI Ready Mix	Operating Concrete	4,146.00
272791	Fastenal Company	Inventory	409.56
272792	Mississippi Lime Company	Inventory	49,315.04
272793	Municipal Supply Inc.	Inventory	8,339.50
272794	Neptune Technology Group Inc	Operating Materials & Supplies	50,419.86
272795	Plumb Supply Company	Inventory	2,611.83

PAYMENTS FOR NOVEMBER, 2023

<u>Check No.</u>	<u>Paid to:</u>	<u>Description</u>	<u>Amount</u>
272796	Waste Management of Iowa Inc.	Operating Purchased Services	2,686.27
272797	Waste Solutions of Iowa	Operating Purchased Services	1,049.00
272798	Dickinson Mackaman Tyler & Hagen PC	Operating Legal Fees	15,672.00
272799	Acme Tools	Inventory	19.58
272800	Air Products	Inventory	2,509.08
272801	Air-Mach Air Compressor & Machine Co	Capital Materials & Supplies	820.00
272802	Allied Electronics	Inventory	36.80
272803	Arnold Motor Supply	Operating Vehicle Maintenance Materials	53.20
272804	Baker Group	Operating Contractors	3,092.22
272805	Bearing Headquarters Company	Operating Materials & Supplies	138.28
272806	Bentley Ridge Tree Farm	Operating Park Materials	2,118.00
272807	BFG Supply	Operating Park Materials	1,148.32
272808	Bob Brown Chevrolet Inc.	Operating Vehicle Maintenance Materials	516.11
272809	Capital Sanitary Supply	Inventory	589.38
272810	Carquest	Operating Vehicle Maintenance Materials	21.84
272811	Carquest	Operating Vehicle Maintenance Materials	2,138.28
272812	CDW	Operating Materials & Supplies	388.00
272813	CenturyLink	Operating Telephone Services	102.72
272814	Cintas	Operating Purchased Services	2,292.55
272815	City of Des Moines	Operating Contractors	495.00
272816	City Supply Corporation	Inventory	1,478.53
272817	Consolidated Water Solutions	Inventory	7,772.50
272818	Contract Specialty L.C.	Operating Park Materials	184.00
272819	Control Tech	Inventory	3,044.70
272820	Core and Main	Inventory	1,251.19
272821	CPI International	Inventory	4,416.31
272822	Dee Clarke	Safety Boots	185.49
272823	Des Moines Iron Company	Operating Vehicle Maintenance Materials	616.71
272824	Dixie Petro-Chem Inc.	Inventory	8,842.15
272825	Doug Anderson	Licenses & Certifications	115.83
272826	Douglas K. Oscarson	Operating Consultants	1,787.10
272827	Electrical Engineering & Equipment Co.	Inventory	7,047.18
272828	Engineered Thermal Insulation	Operating Purchased Services	1,360.00
272829	Environmental Express	Inventory	239.32
272830	Eric Skeen	Licenses & Certifications	39.50
272831	Evan Kerr	Licenses & Certifications	115.83
272832	Fastenal Company	Inventory	7.00
272833	Fisher Scientific	Operating Materials & Supplies	176.22
272834	Force Fitters	Operating Employee Job Costs - Misc	127.00
272835	Grainger Inc.	Inventory	3,446.09
272836	Graybar Electric Company	Inventory	477.03
272837	Hansen Mechanical Inc	Capital Contractors	7,007.73
272838	Hawkeye Truck Equipment	Operating Vehicle Maintenance Materials	604.00
272839	HDR Engineering	Capital Contractors	2,222.50
272840	I'll Do It	Operating Contractors	1,581.00
272841	IDALS	Operating Licenses & Certifications	15.00

PAYMENTS FOR NOVEMBER, 2023

<u>Check No.</u>	<u>Paid to:</u>	<u>Description</u>	<u>Amount</u>
272842	In The Bag	Operating Food & Beverage	200.00
272843	Iowa Agriculture Water Alliance	Operating Food & Beverage	37.32
272844	Iowa Contracting Inc	Operating Asphalt	1,530.00
272845	Iowa State University	Operating Training	315.00
272846	Kyle Danley	Training, Materials & Supplies	1,178.80
272847	Lawson Products Inc.	Inventory	446.46
272848	Mail Services LLC	Operating Courier/Shipping	13,211.28
272849	McDonald Supply	Inventory	817.81
272850	McMaster-Carr Supply Company	Inventory	569.77
272851	Melissa Fuller	Safety Boots and Safety Glasses	620.00
272852	Menard's	Capital Materials & Supplies	69.22
272853	Michael Zach	Mileage	13.10
272854	Mid American Energy	Utilities - Electric & Natural Gas	173,745.84
272855	Midwest Office Technology Inc.	Capital Materials & Supplies	2,800.00
272856	Midwest Wheel Companies	Operating Vehicle Maintenance Materials	1,022.07
272857	Mississippi Lime Company	Inventory	5,396.12
272858	Motion Industries	Inventory	189.04
272859	MSC Industrial Supply Company	Inventory	51.84
272860	Municipal Supply Inc.	Inventory	25,177.12
272861	Neptune Technology Group Inc	Inventory	28,834.00
272862	O'Halloran International	Operating Vehicle Maintenance Materials	122.54
272863	Oracle America Inc	Capital Maintenance Contracts	19,378.80
272864	Paragon IT Professionals	Operating Consultants	2,960.00
272865	Pipe Monkey Plumbing	Operating Plumbing	2,368.54
272866	Pollard Company	Inventory	61.75
272867	Premier Safety	Inventory	555.09
272868	Products Incorporated	Operating Materials & Supplies	580.00
272869	Protex Central Inc.	Operating Contractors	651.00
272870	Radwell International	Capital Materials & Supplies	1,171.88
272871	Raftelis	Operating Consultants	6,055.00
272872	Renewable Energy Group	Inventory	20,652.40
272873	RION	Operating Vehicle Maintenance Materials	83.60
272874	Roy's Towing and Recovery	Operating Purchased Services	407.03
272875	Ryan Cook	Safety Boots	81.30
272876	Servicemaster Commercial Carpet Inc.	Operating Purchased Services	989.00
272877	Sherwin Williams	Operating Materials & Supplies	74.85
272878	Shottenkirk Chevy Waukee	Operating Purchased Services	175.09
272879	Skarshaug Testing Laboratory	Operating Contractors	130.92
272880	Star Equipment Ltd.	Inventory	203.58
272881	Stonkus Hydraulic Inc.	Inventory	614.42
272882	Storey-Kenworthy Company	Inventory	64.35
272883	Straub Corporation	Inventory	2,883.75
272884	The Filter Shop	Inventory	64.00
272885	Total Tool	Inventory	862.54
272886	Trimble	Operating Office Supplies	559.31
272887	Truck Equipment Inc.	Capital Vehicle Maintenance Materials	3,362.06

PAYMENTS FOR NOVEMBER, 2023

<u>Check No.</u>	<u>Paid to:</u>	<u>Description</u>	<u>Amount</u>
272888	ULINE	Inventory	103.03
272889	Underwriters Laboratory	Operating Contractors	699.50
272890	UPS	Operating Courier/Shipping	157.88
272891	USA Bluebook	Inventory	154.03
272892	Van Meter Industrial Inc.	Capital Materials & Supplies	654.54
272893	Verizon ConnectTelo Inc.	Operating Vehicle Maintenance Materials	2,014.20
272894	VWR International LLC	Operating Materials & Supplies	968.46
272895	Wellmark Blue Cross & Blue Shield of IA	Group Insurance Premiums	25,102.70
272896	WRH Inc.	Capital Contractors	10,735.00
272897	Ziegler Inc.	Operating Contractors	1,931.54
272898	Grainger Inc.	Inventory	1,051.90
272899	Plumb Supply Company	Inventory	520.50
272900	Plumb Supply Company	Inventory	202.77
272901	Allender Butzke Engineers Inc.	Capital Contractors	1,485.28
272902	AccuCopy	Operating Printing & Copies	59.76
272903	Acme Tools	Inventory	63.72
272904	Aureon Communications	Operating Internet/Data	3,704.28
272905	Auto Industrial Machine Service	Operating Contractors	95.00
272906	Automation Direct	Operating Materials & Supplies	892.00
272907	Baker Group	Operating Contractors	139.00
272908	Betty Neuman & McMahon PLC	Operating Legal Fees	918.00
272909	Bob Brown Chevrolet Inc.	Operating Vehicle Maintenance Materials	331.29
272910	Bobby Harwell	Materials & Supplies	470.78
272911	Brady Truck & Equipment	Operating Vehicle Maintenance Materials	716.00
272912	Canon Financial Services Inc	Operating Materials & Supplies	394.61
272913	Capital Sanitary Supply	Inventory	262.28
272914	Cintas	Operating Purchased Services	4,805.42
272915	City of Des Moines	Operating Contractors	20.00
272916	Core and Main	Inventory	154.10
272917	CTI Ready Mix	Operating Concrete	2,945.00
272918	Delta Dental of Iowa	Vision Withholding	1,158.32
272919	Dentons Davis Brown PC	Operating Legal Fees	1,708.00
272920	Des Moines Iron Company	Operating Vehicle Maintenance Materials	2,351.27
272921	Douglas K. Oscarson	Operating Consultants	1,842.60
272922	Environmental Express	Inventory	464.38
272923	Environmental Resource Assoc.	Operating Materials & Supplies	850.77
272924	Evan Kerr	Licenses & Certifications	115.83
272925	First Choice Coffee	Operating Food & Beverage	600.00
272926	Graybar Electric Company	Inventory	88.35
272927	Hach Chemical Company	Operating Materials & Supplies	305.00
272928	I'll Do It	Operating Contractors	855.00
272929	IDEXX Laboratories Inc.	Operating Materials & Supplies	453.94
272930	Iowa Contracting Inc	Operating Asphalt	4,824.00
272931	Iowa Department of Natural Resources	Capital Purchased Services	360.60
272932	IP Pathways LLC	Operating Materials & Supplies	1,959.46
272933	Keystone Laboratories	Operating Purchased Services	102.25

PAYMENTS FOR NOVEMBER, 2023

<u>Check No.</u>	<u>Paid to:</u>	<u>Description</u>	<u>Amount</u>
272934	Lindsey Wanderscheid	Operating Licenses & Certifications	100.00
272935	McMaster-Carr Supply Company	Operating Materials & Supplies	82.10
272936	Menard's	Capital Materials & Supplies	201.91
272937	Michael Zach	Licenses & Certifications	100.00
272938	MSC Industrial Supply Company	Inventory	127.92
272939	Napa Auto Parts	Operating Vehicle Maintenance Materials	2,776.92
272940	Neptune Technology Group Inc	Inventory	1,947.35
272941	O'Halloran International	Operating Vehicle Maintenance Materials	48.48
272942	Oldcastle Architectural	Operating Materials & Supplies	1,038.40
272943	Pat Bruner	Materials & Supplies	99.01
272944	Pollard Company	Inventory	68.20
272945	Print Image Solutions Inc.	Inventory	1,260.75
272946	Ramco Innovations	Inventory	172.76
272947	Revenue Advantage	Operating Purchased Services	950.00
272948	Star Equipment Ltd.	Capital Purchased Services	415.30
272949	Strauss Security Solutions	Operating Materials & Supplies	255.50
272950	Subsurface Solutions	Operating Materials & Supplies	2,016.54
272951	Tension Envelope Corporation	Inventory	2,526.00
272952	The Filter Shop	Inventory	479.60
272953	The Shredder	Operating Purchased Services	87.00
272954	Amazon Capital Services Inc	Operating Materials & Supplies	4,311.99
272955	Consumer Energy	Operating Electrical Power	289.34
272956	Lawson Products Inc.	Inventory	51.05
272957	Midwest Wheel Companies	Operating Vehicle Maintenance Materials	325.13
272958	Municipal Supply Inc.	Operating Materials & Supplies	554.72
272959	Power Seal	Inventory	2,528.49
272960	Premier Safety	Inventory	1,732.57
272961	Tompkins Industries Inc.	Operating Vehicle Maintenance Materials	21.73
272962	Truck Equipment Inc.	Operating Vehicle Maintenance Materials	2,342.00
272963	True North Controls	Inventory	149.00
272964	ULINE	Operating Materials & Supplies	315.99
272965	USA Bluebook	Inventory	1,187.05
272966	USA Safety Supply Corp	Inventory	51.24
272967	Vessco	Inventory	600.27
272968	VWR International LLC	Operating Materials & Supplies	906.73
272969	Wally Gordon	Materials & Supplies	296.03
272970	Hy-Vee	Operating Food & Beverage	104.31
272971	Leah Heim	Safety Boots	176.54
272972	Nichols Equipment LLC	Operating Contractors	4,355.90
272973	Rogers Septic Maintenance & Repair	Operating Plumbing	1,050.00
272974	Truck Center Companies	Operating Vehicle Maintenance Materials	1,638.04
272975	Bonnie's Barricades	Operating Contractors	8,129.25
272976	Mid American Energy	Utilities - Electric & Natural Gas	57,453.97
272977	Mississippi Lime Company	Inventory	44,507.24
272978	Municipal Supply Inc.	Inventory	37,840.88
272979	Ahlers Cooney PC	Operating Legal Fees	16,290.50

PAYMENTS FOR NOVEMBER, 2023

<u>Check No.</u>	<u>Paid to:</u>	<u>Description</u>	<u>Amount</u>
272980	Eurofins Abraxis Inc	Inventory	6,112.60
272981	Heartland Business Systems	Operating Maintenance Contracts	8,041.00
272982	Kemira Water Solutions Inc	Inventory	12,571.74
272983	J & K Contracting LLC	Capital Contractors	38,456.00
272984	Mid American Energy	Utilities - Electric & Natural Gas	32,556.99
272985	Synagro Central LLC	Operating Contractors	135,391.90
272986	Thornton Musso & Bellemin Inc	Inventory	54,320.00
272987	Torgerson Excavating	Operating Plumbing	8,336.00
272988	Voya Financial	Insurance Withholding	8,939.13
272989	Wigen Companies Inc	Capital Contractors	8,750.00
272990	TK Concrete, Inc.	Operating Purchased Services	7,200.00
272991	Waldinger Corporation	Operating Contractors	38,565.00
272992	Customer Refunds	Refund	73.94
272993	Customer Refunds	Refund	162.85
272994	Customer Refunds	Refund	100.66
272995	Customer Refunds	Refund	161.54
272996	Customer Refunds	Refund	46.19
272997	Customer Refunds	Refund	147.23
272998	Customer Refunds	Refund	46.62
272999	Customer Refunds	Refund	74.61
273000	Customer Refunds	Refund	1,625.53
273001	Customer Refunds	Refund	56.87
273002	Customer Refunds	Refund	426.59
273003	Customer Refunds	Refund	861.74
273004	Customer Refunds	Refund	37.29
273005	Customer Refunds	Refund	20.20
273006	Customer Refunds	Refund	32.83
273007	Customer Refunds	Refund	144.55
273008	Customer Refunds	Refund	131.95
273009	Customer Refunds	Refund	76.96
273010	Customer Refunds	Refund	204.83
273011	Customer Refunds	Refund	89.79
273012	Customer Refunds	Refund	2,801.62
273013	Customer Refunds	Refund	149.83
273014	Customer Refunds	Refund	16.02
273015	Customer Refunds	Refund	154.66
273016	Customer Refunds	Refund	37.16
273017	Customer Refunds	Refund	126.23
273018	Customer Refunds	Refund	294.63
273019	Customer Refunds	Refund	149.62
273020	Customer Refunds	Refund	20.31
273021	Customer Refunds	Refund	71.27
273022	Customer Refunds	Refund	52.73
273023	Customer Refunds	Refund	155.50
273024	Customer Refunds	Refund	92.29
273025	Customer Refunds	Refund	152.92

PAYMENTS FOR NOVEMBER, 2023

<u>Check No.</u>	<u>Paid to:</u>	<u>Description</u>	<u>Amount</u>
273026	Customer Refunds	Refund	67.26
273027	Customer Refunds	Refund	163.79
273028	Customer Refunds	Refund	8.66
273029	Customer Refunds	Refund	151.76
273030	Customer Refunds	Refund	124.18
273031	Customer Refunds	Refund	345.57
273032	Customer Refunds	Refund	62.84
273033	Customer Refunds	Refund	99.85
273034	Customer Refunds	Refund	140.70
273035	Customer Refunds	Refund	2,122.80
273036	Customer Refunds	Refund	74.04
273037	Customer Refunds	Refund	114.39
273038	Customer Refunds	Refund	44.15
273039	Customer Refunds	Refund	164.76
273040	Customer Refunds	Refund	44.15
273041	Customer Refunds	Refund	45.56
273042	Customer Refunds	Refund	665.05
273043	Customer Refunds	Refund	195.05
273044	Customer Refunds	Refund	1,755.90
273045	Customer Refunds	Refund	130.18
273046	Customer Refunds	Refund	91.29
273047	Customer Refunds	Refund	63.75
WC110823ST	Treasurer State of Iowa - Sales/Use	Iowa State Sales Tax Payable	158,629.80
WC110823WE	Treasurer State of Iowa - Sales/Use	Iowa Water Excise Tax Payable	236,493.94
WC111023ADP	ADP LLC	Purchased Services	8,595.20
WC111023CBM	Casey's Business Mastercard	Fuel	260.96
WC111023CU	Des Moines Metro Credit Union	Credit Union Payable	22,084.00
WC111023DC	Principal Life Insurance	Deferred Compensation Payable	61,283.80
WC111023WC	EMC Risk Services Inc	Workers Comp	26,862.91
WC111423IPERS	IPERS Collections	Pension Plan Contribution	235,119.44
WC112123CBM	Casey's Business Mastercard	Fuel	57.61
WC112223CU	Des Moines Metro Credit Union	Credit Union Payable	22,006.00
WC112223DC	Principal Life Insurance	Deferred Compensation Payable	61,098.53
WC112423WC	EMC Risk Services Inc	Workers Comp	10,000.00
WC113023FSA	Discovery Benefits	Flex Spending - Reimbursements	1,135.43
110123	EBS	Employee Health Premiums	318,503.37
110923	Collection Services Center	Garnishment of Wages	2,491.39
110923	Treasurer State of Iowa	State Withholding Taxes Payable	27,333.59
110923	Internal Revenue Service	Withholding Taxes Payable	181,290.80
112223	Collection Services Center	Garnishment of Wages	2,491.39
112223	Treasurer State of Iowa	State Withholding Taxes Payable	27,792.53
112223	Internal Revenue Service	Withholding Taxes Payable	182,766.92
113023	EBS	Employee Health Premiums	22,183.76
TOTAL			<u>\$6,284,359.82</u>

CEO APPROVED EXPENDITURES GREATER THAN \$40,000
MONTHLY SCHEDULE FOR THE MONTH OF NOV 2023

Check #	Vendor	Description	Amount	Details
	none			

AGENDA ITEM FORM

SUBJECT: Receive and File DMWW Water Affordability Study Report

SUMMARY:

Across the industry in recent years, water rate increases have outpaced inflation. Over the past decade, the Inside City DM residential drinking water rate has increased over 75%, while inflation has been less than 30%. As a result of the impact of these increases on the accessibility of water to all customers, the water industry has studied affordability and has encouraged utilities to evaluate the affordability of their water rates.

Consistent with AWWA and EPA guidance, water affordability, framed by equity and accessibility considerations, are strategic priorities identified in Des Moines Water Works' (DMWW) five-year strategic plan for 2022 - 2026.

DMWW hired Raftelis Financial Consultants (Raftelis) in early summer 2023 to assess the affordability of DMWW's water rates and make recommendations on improvements that would make water more accessible to customers. Raftelis has performed other studies for DMWW, including an evaluation of the utility's Cost of Service study in 2018 and an evaluation of the utility's wholesale rate structure in 2019.

Raftelis has completed their study and has concluded there is not a widespread water affordability problem in DMWW's service areas; however, there are still households with low income who may struggle to pay their water bill.

Raftelis has recommended DMWW consider two approaches to improving the accessibility of water in the Des Moines area:

- 1) Implement a more robust customer assistance program, with one option being to offer utility assistance comparable to the program available to low-income energy customers, known as LIHEAP.
- 2) Adopt an inclining block rate structure for residential customers in which the rate increases as more water is used. Because lower volumes of water would be charged a lower rate than our current Step 1 rate, this approach would result in lower charges for water needed to meet basic household needs. This rate structure also encourages responsible water practices by charging more for discretionary uses, such as lawn watering.

Staff will further consider these approaches in 2024 and may recommend implementation of one or both in the future.

Attached is Raftelis' report on their assessment of DMWW's water rate affordability. Tom Beckley, Vice President, and Joe Collins, Manager presented their findings at the December 5th Finance & Audit Committee meeting.

FISCAL IMPACT:

None.

RECOMMENDED ACTION:

Receive and file the DMWW Water Affordability Study Report prepared by Raftelis.

BOARD REQUIRED ACTION:

Motion to receive and file the DMWW Water Affordability Study Report prepared by Raftelis.

 Amy Kahler, CPA Chief Financial Officer (date) 12/12/23	 Ted Corrigan, P.E. CEO and General Manager (date) 12/14/24
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Attachment: DMWW Water Affordability Study Report



Des Moines Water Works

Water Rate Affordability Study

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- Appendix 2: Detailed Monthly Water Bill Impacts

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1. Executive Summary

Raftelis was engaged by Des Moines Water Works (DMWW) to complete an analysis of water bill affordability in the City of Des Moines and the full service areas DMWW provides retail water service to. Overall, the analysis found that water is generally affordable in the area. The low fixed charge of \$6 per month for a Des Moines customer with a 5/8" meter ensures that customers have a great deal of control over their water bill and that users can significantly reduce their bills through conservation efforts.

Table 1 provides a summary of the analysis. A water bill for 4,000 gallons (an amount sufficient for normal indoor use for a 2.2 person household) in each service area is compared to the incomes for the lowest quintile household and the median household to determine the percent of income needed for modest water use. A common threshold for affordability is 2% of income; in the DMWW service area, only two small communities require more than 1% of median income. Table 1 also includes the hours of work required to pay a typical water bill. Though there is no target or commonly accepted threshold against which to compare, it is important to note that nearly all customers can afford a typical monthly bill with less than a full day's labor at minimum wage. These factors lead Raftelis to conclude that there is no widespread water affordability problem in the Des Moines area.

Table 1: DMWW Service Area Monthly Water Bill Summary

Service Area	Number of Accounts	4,000 Gal. Bill	Lowest Quintile		Median		Hours Worked to Pay Bill		
			Income	Bill %	Income	Bill %	Min. Wage	Lowest Quintile	MHI
Des Moines	69,951	\$ 29.56	\$ 26,234	1.4%	\$ 58,444	0.6%	4.1	2.3	1.0
Des Moines Outside City	529	35.28	39,161	1.1%	74,325	0.6%	4.9	1.8	0.9
Alleman	171	53.65	70,500	0.9%	115,000	0.6%	7.4	1.5	0.9
Berwick	223	21.48	17,360	1.5%	53,764	0.5%	3.0	2.5	0.8
Cumming	179	50.71	71,000	0.9%	135,000	0.5%	7.0	1.4	0.8
Greenfield Plaza	671	35.28	18,682	2.3%	34,886	1.2%	4.9	3.8	2.0
Pleasant Hill	3,869	49.36	43,090	1.4%	76,371	0.8%	6.8	2.3	1.3
Pleasant Hill Outside City	5	78.68	43,090	2.2%	76,371	1.2%	10.9	3.7	2.1
Polk County	7,929	57.48	57,874	1.2%	109,413	0.6%	7.9	2.0	1.1
PCRWD 1	469	25.68	36,371	0.8%	73,042	0.4%	3.5	1.4	0.7
Runnells	205	46.17	40,167	1.4%	88,095	0.6%	6.4	2.3	1.0
Windsor Heights	2,138	29.00	32,430	1.1%	79,073	0.4%	4.0	1.8	0.7

However, there are still households with low income who may struggle to pay their water bill. A customer assistance program is the best way to provide aid to these customers. Utilities have a wide range of discretion in determining both eligibility for such a program and the level of assistance provided. The example proposed by Raftelis would require participation in a similar program for low income residents such as LIHEAP or SNAP in order to minimize DMWW's administrative burden. The benefit would be linked to the cost of a typical bill in each service area, ensuring that every participant could receive meaningful assistance. However, depending on the size of the benefit and participation level, the program would require substantial funding from a rate increase on all retail customers.

An alternative approach to providing water rate relief is the adoption of an inclining block rate structure in which the first units of water are charged a lower rate than successive units, resulting in a lower bill for small water users. However, this rate structure would apply to all residential customers, providing some benefit to those who may not need it and reducing the benefit any one customer could receive.

2. Affordability of Water Rates

An affordability analysis ultimately compares typical water bills to incomes in the area. Key metrics include the percent of income required and the number of hours of work required to pay for a water bill. Water rates and demographic data are key to completing this analysis.

2.1. Current Rate Structures

DMWW currently provides retail water service to residents of the City of Des Moines and 11 additional “full service” areas outside the City. Each of these areas has a unique set of water rates designed to fully support water service operations in that area with no subsidy from DMWW inside city customers or another full service area. Although the rates are different, they generally share a common rate structure for residential customers, who pay a monthly fixed charge based on the size of their water meter and a volumetric charge per 1,000 gallons of water used. Several service areas use a declining block rate structure applied to all customers in which the rate charged for a unit of water decreases the more water is used. Though this rate structure was once commonly used to recognize differences in the cost of service for different types of customers, many utilities with declining blocks have transitioned a structure that directly recognizes customer classes and charges them different rates. This is a change Raftelis believes DMWW should consider making in the future. The declining block rates used in the DMWW area have a second step breakpoint of 5,000 gallons, which is high enough to ensure that very few residential water bills have any step two water use and effectively functions as a uniform rate for these customers.

Overall, rates in DMWW service areas are low compared to similarly sized cities. The monthly fixed charge for Des Moines residents with a 5/8” water meter is only \$6 per month, which greatly reduces the monthly bill for low water users. The highest 5/8” fixed charge is \$10 for customers in the Pleasant Hill Outside City area, which is closer to average but still modest.

The corresponding volume rates are also generally reasonable. Des Moines residents pay \$5.89 per 1,000 gallons. Many utilities with similarly low fixed charges must have high volume charges, but volume rates for the City of Des Moines, which includes most DMWW customers, are still modest. However, volume rates in many of the full service areas are significantly higher. The rate per 1,000 gallons in Alleman, Cumming, Pleasant Hill Inside and Outside City, Polk County, and Runnells are above \$9, which is above average and could create affordability issues for average customers. A full schedule of FY 2023 rates for all service areas is presented in Appendix 1¹.

The primary advantage of a low fixed charge is that it allows customers a great deal of control over their water bill. The proportionally higher volume charge will allow for a greater impact of any conservation efforts customers undertake. If customers are struggling to pay their water bill, conservation can have a significant benefit for them. However, the disadvantage is relatively low revenue stability for DMWW. If water use falls, either due to customer conservation efforts or simply cool, wet weather, the utility will see a significant drop in revenue. Balancing these two key issues is a key consideration when developing water rates.

¹ Raftelis has reviewed the rates proposed for FY 2024 and does not believe the changes materially affect the analysis in this report.

2.2. Des Moines Demographic Data

Since DMWW does not collect demographic data on the demographics of its customers such as income or household size, the data required for this study came from the American Community Survey conducted by the Census Bureau, which is the best available at the level of detail required for this analysis. Many DMWW service areas, including the City of Des Moines, are specifically identified and reported in the ACS data. Others, such as PCRWD 1 and the portion of Polk County served by DMWW, are not; in these cases, Raftelis utilized data at the census tract level to narrow the information to DMWW customers as much as possible. Table 2 below provides a summary of key data for the City of Des Moines and each full service area. A substantial portion of residents of the City of Des Moines live below 200% of the federal poverty level, although both median household income and income at the lowest quintile (20% of households have income below this amount) are higher than many other similarly sized cities.

Table 2: Des Moines Census Data

Description	Demographics		Household Income		Population Below 200% FPL
	Population	Households	MHI	20%	
United States	329,725,481	124,010,992	\$ 69,021	\$ 30,623	28.6%
Des Moines	213,545	86,992	58,444	26,234	35.8%
Des Moines Outside City	4,246	1,896	74,325	39,161	12.1%
Alleman	423	166	115,000	70,500	2.4%
Berwick	2,822	1,185	53,764	17,360	30.8%
Cumming	643	224	135,000	71,000	9.2%
Greenfield Plaza	2,850	1,154	34,886	18,682	47.8%
Pleasant Hill	10,203	3,766	76,371	43,090	18.1%
Polk County	22,295	7,721	109,413	57,874	9.5%
PCRWD 1	6,959	2,622	73,042	36,371	16.1%
Runnells	459	172	88,095	40,167	19.6%
Windsor Heights	5,208	2,137	79,073	32,430	21.6%

Table 3 contains information about the federal poverty level and two alternative poverty measures for Polk County, the MIT Living Wage and the United Way ALICE Survival Budget². A common criticism of the federal poverty level is that it is based on an outdated breakdown of common expenses. These alternatives include a more modern estimate of the cost of living and working based on budgets that include housing, childcare, food, transportation, health care, and technology.

² Additional information about the alternative poverty measures is available at <https://www.unitedforalice.org/household-budgets/iowa> and <https://livingwage.mit.edu/counties/19153>

Table 3: Poverty Measures

Description	Required Income		
	MIT Living Wage	ALICE Budget	FPL
One Adult	\$ 33,625	\$ 28,248	\$ 14,580
One Adult, One Child	69,714	40,200	19,720
Two Adults	53,805	42,528	19,720
Two Adults, One Child	77,864	58,536	24,860
Two Adults, Two Children	99,298	64,524	30,000

Although there is no ACS data that will directly inform how many Polk County households fall below the MIT and ALICE thresholds, there are several data points that provide a useful frame of reference. The median household income for a 4-person household in Polk County is \$111,199 and \$80,259 in Des Moines, both of which are above both income thresholds. Additionally, approximately 44% of all households (of any size) in the County and 55% in Des Moines have income above \$65,000 per year.

2.3. Monthly Water Bill Impacts

Table 4: Des Moines Inside City Monthly Water Bill Impacts Table 4 below presents detailed water bill affordability data for Des Moines Inside City customers. Each row shows a water bill at a different level of water use, shown in 1,000 gallon units in the leftmost column. The next column calculates the average per capita water use allowed at that monthly total for Des Moines average household size of 2.45 people. For example, 4,000 gallons per month is 54.3 gallons per person per day. This bill corresponds to a commonly accepted estimate of indoor water use of 55 gallons per person per day. Indoor water use is often considered a minimum required level of water use – it is a responsible amount for cooking, cleaning, hygiene needs, etc, but does not include any outdoor irrigation or other discretionary use.

The next three columns present information from DMWW’s billing data. The most common water bill size is 3,000 gallons per month, while nearly 90% use 6,000 gallons or less. There are very few residential water bills larger than 20,000 gallons per month. The billing data is followed by breakdown of the monthly water bill, including the fixed charge and the volumetric charges.

The remaining columns provide common metrics of water affordability, including the percent of the lowest quintile income and median income required to pay for a water bill at each level of usage as well as the number of hours of work necessary to pay the corresponding water bill at minimum wage and hourly equivalents of the lowest quintile and median household incomes.

A common threshold for water bill affordability is 2% of income. As shown in the highlighted blue and green rows, ratepayers earning the lowest quintile income can afford 6,000 gallons of water per month; the median income household can afford 15,000 gallons. These amounts are higher than an affordable amount of water in many other cities and higher than a water bill for average indoor use in Des Moines.

Bill impact tables for all service areas are available in Appendix 2.

Table 4: Des Moines Inside City Monthly Water Bill Impacts

Des Moines Inside City	Water Use Data			Monthly Water Bill			Bill % of Income		Hours Worked				
	# of Bills	Cumulative % of Bills	Cumulative % of Usage	Fixed	Volume	Total	Lowest Quintile	MHI	Min. Wage	Lowest Quintile	MHI		
Incomes							\$ 26,234	\$ 58,444	\$ 7.25	\$ 13.12	\$ 29.22		
Volume	g/p/d												
0	-	29,906	3.9%	0.0%	\$ 6.00	\$ -	\$ 6.00	0.3%	0.1%	0.8	0.5	0.2	
1	13.6	79,818	14.5%	25.1%	6.00	5.89	11.89	0.5%	0.2%	1.6	0.9	0.4	
2	27.2	150,533	34.3%	47.4%	6.00	11.78	17.78	0.8%	0.4%	2.5	1.4	0.6	
3	40.7	163,438	55.8%	64.6%	6.00	17.67	23.67	1.1%	0.5%	3.3	1.8	0.8	
4	54.3	Indoor Use	120,338	71.7%	76.1%	6.00	23.56	29.56	1.4%	0.6%	4.1	2.3	1.0
5	67.9		81,667	82.5%	83.5%	6.00	29.45	35.45	1.6%	0.7%	4.9	2.7	1.2
6	81.5	2% LQI	51,221	89.2%	88.1%	6.00	35.34	41.34	1.9%	0.8%	5.7	3.2	1.4
7	95.1		29,577	93.1%	90.9%	6.00	41.23	47.23	2.2%	1.0%	6.5	3.6	1.6
8	108.6		17,120	95.4%	92.7%	6.00	47.12	53.12	2.4%	1.1%	7.3	4.0	1.8
9	122.2		10,815	96.8%	93.9%	6.00	53.01	59.01	2.7%	1.2%	8.1	4.5	2.0
10	135.8		6,672	97.7%	94.7%	6.00	58.90	64.90	3.0%	1.3%	9.0	4.9	2.2
11	149.4		4,239	98.2%	95.3%	6.00	64.79	70.79	3.2%	1.5%	9.8	5.4	2.4
12	162.9		2,844	98.6%	95.8%	6.00	70.68	76.68	3.5%	1.6%	10.6	5.8	2.6
13	176.5		1,877	98.8%	96.2%	6.00	76.57	82.57	3.8%	1.7%	11.4	6.3	2.8
14	190.1		1,443	99.0%	96.5%	6.00	82.46	88.46	4.0%	1.8%	12.2	6.7	3.0
15	203.7	2% MHI	1,046	99.2%	96.7%	6.00	88.35	94.35	4.3%	1.9%	13.0	7.2	3.2
16	217.3		817	99.3%	97.0%	6.00	94.24	100.24	4.6%	2.1%	13.8	7.6	3.4
17	230.8		646	99.4%	97.1%	6.00	100.13	106.13	4.9%	2.2%	14.6	8.1	3.6
18	244.4		509	99.4%	97.3%	6.00	106.02	112.02	5.1%	2.3%	15.5	8.5	3.8
19	258.0		415	99.5%	97.5%	6.00	111.91	117.91	5.4%	2.4%	16.3	9.0	4.0
20	271.6		354	99.5%	97.6%	6.00	117.80	123.80	5.7%	2.5%	17.1	9.4	4.2

3. Affordability Assistance

There are two primary methods to approach addressing affordability issues for Des Moines ratepayers: a direct assistance program or an inclining block rate structure. An assistance program would likely have the largest impact on those who participate but would require additional funding both for water bill assistance and program administration. An inclining block structure, if properly designed, is self-funded but would apply to all residential customers and have a smaller impact on the monthly water bill.

3.1. Direct Assistance Program

A direct assistance program is a common way to provide meaningful targeted assistance to the ratepayers who need it most. Such a program would provide a credit to the water bill of eligible customers, reducing the amount they are required to pay. There are several considerations when developing an assistance program. The first is administration: the program would require staff effort to develop and operate on an ongoing basis. Determining eligibility of applicants is likely the most intensive aspect of program administration, though this could be minimized by linking participation in any DMWW assistance program with another program, such as the Low Income Heat and Energy Assistance Program (LIHEAP) or the Supplemental Nutrition Assistance Program (SNAP). If a ratepayer can demonstrate that they receive benefits from a program such as these, DMWW could consider them eligible for enrollment in the water rate assistance program with no other administrative burden.

The second primary consideration is the amount of assistance to provide, a decision for which DMWW has a great deal of discretion. Many utilities provide a flat amount, such as \$20 per month, to all enrolled ratepayers. A significant downside to this approach for DMWW is that it does not recognize the differences in rates among the service areas. Twenty dollars would cover nearly an entire 4,000 gallon bill in Berwick, but only 35% of the same bill in Polk County. This program would cost approximately \$2.1 million, funded by a one-time 4.75% rate increase. Fixed assistance could be more targeted by providing a credit equal to each service area's monthly fixed charge. One challenge with this approach is that the amount of assistance is relatively small and may not be impactful – the fixed charge for Des Moines Inside City customers is \$6, or about 20% of a typical bill. In Polk County, the area with the highest typical bill, the fixed charge is only 12% of the bill. Eliminating the fixed charge for program enrollees would cost about \$650,000, requiring a 1.5% rate increase.

Other programs cap the amount of the monthly water bill, ensuring that no matter how much water is used an enrolled ratepayer will not receive a bill for more than \$25, for example. However, this creates a moral hazard by removing any link between the use of the water service and the price paid.

Raftelis developed an example based on providing a credit to each enrolled ratepayer equal to 50% of a 4,000 gallon bill in their service area. A customer in the City of Des Moines could receive \$14.28 per month, while one in Cumming could receive \$25.36. An approach like this would target assistance to where it is needed most, which is a key benefit of a direct assistance program.

Another consideration is the amount of funding provided to the program. In order to be effective, the program must be funded to help all or most of those who apply. Analysis of Census data indicates that there are approximately 35,000 households in the DMWW service area at or below 200% of the federal poverty level,

which is the eligibility for LIHEAP assistance in Iowa. IMPACT, DMWW's current assistance program partner, currently administers LIHEAP assistance to approximately 8,500 households. The funding required to provide a 50% bill credit to all of these households is approximately \$1.7 million per year, which could be funded through a one-time 3.75% rate increase on all retail customers in the Des Moines and full-service areas.

Finally, DMWW must consider how water bill assistance would interact with other services charged on the same monthly bill. In most cases, failure to pay the complete "water bill," potentially including water, wastewater, trash service, or more, would result in water service being turned off. Assistance through this program would not apply to other services or prevent the customer from falling behind on the remainder of the payment. DMWW should consider working with other communities and utilities to determine how the water assistance credit may impact billing procedures, as well as encourage the development of similar assistance programs to help disadvantaged customers from falling behind on payments for other services.

3.2. Alternative Rate Structure

Another option to address affordability is the development of an alternative rate structure using inclining block rates. In this structure, the first units of water used in a month are charged at a lower rate than successive units. High water users would pay more than lower water users. Inclining block rate structures are generally developed for the residential class, with a corresponding uniform volume rate for commercial, industrial, and irrigation customers. An advantage to this approach is that it does not require any additional funding. The rates are calculated to recover the amount of revenue needed by the utility, with the higher rates offsetting the lower rates. Table 5 shows an example³ of inclining block rates for Des Moines ratepayers that would collect the same amount of revenue as the current rates. The rate for the first 3,000 gallons would be lower than the current rate, but all additional units would cost more.

Table 5: Example Inclining Block Rates

Step	Use	Alternative Rate	Current Rate
1	1 to 3	\$ 4.90	\$ 5.89
2	4 to 10	7.35	5.89
3	Above 10	9.79	5.89

Another benefit is that the rate structure applies to all customers automatically, requiring no administrative effort to provide. However, this can also be a disadvantage. Since the benefit is spread to all customers, regardless of their need, the benefit to any one customer is small. Table 6 shows a comparison of water bills under the example rate structure compared to the current. The maximum benefit is less than \$3 per month on a water bill for 3,000 gallons. Bills for 5,000 gallons or less would benefit, while all others would increase.

³ These rates are only intended to serve as an example in this affordability report and should not be adopted without further analysis. If DMWW were interested in developing an inclining block rate structure, Raftelis recommends that this be completed as part of a comprehensive Cost of Service study.

Table 6: Monthly Water Bills Under Example Rates

Volume	Water Bill Comparison		
	Current	Alternative	Savings / (Cost)
0	\$ 6.00	\$ 6.00	\$ -
1	11.89	10.90	0.99
2	17.78	15.80	1.98
3	23.67	20.70	2.97
4	29.56	28.05	1.51
5	35.45	35.40	0.05
6	41.34	42.75	(1.41)
7	47.23	50.10	(2.87)
8	53.12	57.45	(4.33)
9	59.01	64.80	(5.79)
10	64.90	72.15	(7.25)

3.3. Communications

No matter which option is selected, the success of the program will depend on DMWW’s ability to communicate the value to customers. It will be important for the utility to target messages based on the stakeholder with whom it is communicating – for example, the message to someone who qualifies for the program will differ from the message to elected officials.

A variety of communication tools should be developed, based on a careful review of stakeholders and target audiences. Some potential tools include:

- Bill stuffers
- Website content
- Social media posts and graphics
- Short “explainer” video(s)
- FAQs
- Fact Sheet / Infographics
- Direct mail
- Paid advertising
- Slide decks and presentations to civic organizations, etc.

Depending on demographic factors, DMWW should consider making these pieces available in all the languages that are commonly spoken in the homes of its customers.

Each program discussed in this report could be communicated using language such as:

3.3.1. Direct Assistance Program

The Des Moines Water Works is proud to provide a direct assistance program aimed at helping our neighbors in greatest need afford their monthly water bills. We see access to clean and safe water as crucial for fostering a healthier and more equitable society, and believe that everyone, regardless of their financial situation, should have clean water for their daily needs.

Water is not just a utility; it's a vital resource for health, hygiene, and well-being. This assistance program aligns with the values of community solidarity and compassion, reinforcing the interconnectedness and responsibility shared among neighbors to ensure that no one in Des Moines is left behind. By lending a helping hand to those in need, customers of the Des Moines Water Works actively contribute to fostering a more supportive, resilient, and caring community for all its members.

3.3.2. Inclining Block Rates

Implementing an inclining block rate water rate structure substantially benefits the Des Moines community by ensuring access to affordable water for low water users. Our tiered pricing model enables households with lower water consumption to pay a lower rate for their usage, thereby promoting affordability and equity in water access.

By charging a lower rate for essential volumes of water and gradually increasing the cost for higher consumption levels, the inclining block rate structure encourages conservation and responsible usage among all residents. This system not only incentivizes efficient water use but also assists low-income households by offering more affordable rates for their essential water needs, ultimately fostering a more sustainable and inclusive community where access to vital resources remains attainable for all residents.

APPENDIX 1:

DMWW Water Rates

Water Rates - 2023	Step Breakpoints		Monthly Fixed Charges			Water Rates per 1,000 Gal.		
	Lower	Upper	DMWW	Local	Total	Water	Capital	Total
Des Moines Inside City			6.00		6.00			-
Step 1 (Daily)	-	5,000				5.64	0.25	5.89
Step 2 (Daily)	5,001	15,000				3.79	0.17	3.96
Step 3 (Daily)	15,001	>				2.91	0.13	3.04
Des Moines Outside City			8.00		8.00			
Step 1 (Daily)	-	5,000				6.82		6.82
Step 2 (Daily)	5,001	15,000				5.13		5.13
Step 3 (Daily)	15,001	>				3.66		3.66
Alleman			6.00	1.85	7.85	11.45		11.45
Berwick			3.00		3.00	4.62		4.62
Cumming			8.00	4.15	12.15	9.64		9.64
Greenfield Plaza			8.00		8.00			
Step 1 (Daily)	-	5,000				6.82		6.82
Step 2 (Daily)	5,001	15,000				5.13		5.13
Step 3 (Daily)	15,001	>				3.66		3.66
Pleasant Hill Inside City			8.00		8.00			
Step 1 (Monthly)	-	20,000				10.34		10.34
Step 2 (Monthly)	20,001	>				8.72		8.72
Pleasant Hill Outside City			10.00		10.00	17.17		17.17
Polk County			7.00		7.00			-
Step 1 (Daily)	-	5,000				11.12	1.50	12.62
Step 2 (Daily)	5,001	15,000				6.80	0.82	7.62
Step 3 (Daily)	15,001	>				5.31	0.71	6.02
PCRWD 1			4.00		4.00	5.42		5.42
Runnells			6.00	2.77	8.77	9.35		9.35
Windsor Heights			6.00		6.00	5.75		5.75

APPENDIX 2:

Detailed Monthly Water Bill Impacts

The tables presented on the following pages provide detailed bill impacts for each service area similar to the one shown in Table 4 above. The column labeled “g/p/d” (gallons per person per day) is unique for each service area based on census data regarding the average household size in the area; 4,000 gallons per month provides a different daily personal use allowance for different household sizes. The bill highlighted for indoor use is based on 55 gallons per person per day. In most areas, this bill is for 4,000 gallons per month, though in areas with larger average household sizes it increases to 5,000 per month.

Des Moines Inside City		Water Use Data			Monthly Water Bill			Bill % of Income		Hours Worked		
		# of Bills	Cumulative % of Bills	Cumulative % of Usage	Fixed	Volume	Total	Lowest Quintile	MHI	Min. Wage	Lowest Quintile	MHI
Incomes								\$ 26,234	\$ 58,444	\$ 7.25	\$ 13.12	\$ 29.22
Volume	g/p/d											
0	-	29,906	3.9%	0.0%	\$ 6.00	\$ -	\$ 6.00	0.3%	0.1%	0.8	0.5	0.2
1	13.6	79,818	14.5%	25.1%	6.00	5.89	11.89	0.5%	0.2%	1.6	0.9	0.4
2	27.2	150,533	34.3%	47.4%	6.00	11.78	17.78	0.8%	0.4%	2.5	1.4	0.6
3	40.7	163,438	55.8%	64.6%	6.00	17.67	23.67	1.1%	0.5%	3.3	1.8	0.8
4	54.3 Indoor Use	120,338	71.7%	76.1%	6.00	23.56	29.56	1.4%	0.6%	4.1	2.3	1.0
5	67.9	81,667	82.5%	83.5%	6.00	29.45	35.45	1.6%	0.7%	4.9	2.7	1.2
6	81.5 2% LQI	51,221	89.2%	88.1%	6.00	35.34	41.34	1.9%	0.8%	5.7	3.2	1.4
7	95.1	29,577	93.1%	90.9%	6.00	41.23	47.23	2.2%	1.0%	6.5	3.6	1.6
8	108.6	17,120	95.4%	92.7%	6.00	47.12	53.12	2.4%	1.1%	7.3	4.0	1.8
9	122.2	10,815	96.8%	93.9%	6.00	53.01	59.01	2.7%	1.2%	8.1	4.5	2.0
10	135.8	6,672	97.7%	94.7%	6.00	58.90	64.90	3.0%	1.3%	9.0	4.9	2.2
11	149.4	4,239	98.2%	95.3%	6.00	64.79	70.79	3.2%	1.5%	9.8	5.4	2.4
12	162.9	2,844	98.6%	95.8%	6.00	70.68	76.68	3.5%	1.6%	10.6	5.8	2.6
13	176.5	1,877	98.8%	96.2%	6.00	76.57	82.57	3.8%	1.7%	11.4	6.3	2.8
14	190.1	1,443	99.0%	96.5%	6.00	82.46	88.46	4.0%	1.8%	12.2	6.7	3.0
15	203.7 2% MHI	1,046	99.2%	96.7%	6.00	88.35	94.35	4.3%	1.9%	13.0	7.2	3.2
16	217.3	817	99.3%	97.0%	6.00	94.24	100.24	4.6%	2.1%	13.8	7.6	3.4
17	230.8	646	99.4%	97.1%	6.00	100.13	106.13	4.9%	2.2%	14.6	8.1	3.6
18	244.4	509	99.4%	97.3%	6.00	106.02	112.02	5.1%	2.3%	15.5	8.5	3.8
19	258.0	415	99.5%	97.5%	6.00	111.91	117.91	5.4%	2.4%	16.3	9.0	4.0
20	271.6	354	99.5%	97.6%	6.00	117.80	123.80	5.7%	2.5%	17.1	9.4	4.2
21	285.2	343	99.6%	97.7%	6.00	123.69	129.69	5.9%	2.7%	17.9	9.9	4.4
22	298.7	286	99.6%	97.8%	6.00	129.58	135.58	6.2%	2.8%	18.7	10.3	4.6
23	312.3	248	99.6%	97.9%	6.00	135.47	141.47	6.5%	2.9%	19.5	10.8	4.8
24	325.9	194	99.7%	98.0%	6.00	141.36	147.36	6.7%	3.0%	20.3	11.2	5.0
25	339.5	177	99.7%	98.1%	6.00	147.25	153.25	7.0%	3.1%	21.1	11.7	5.2
26	353.1	156	99.7%	98.2%	6.00	153.14	159.14	7.3%	3.3%	22.0	12.1	5.4
27	366.6	143	99.7%	98.3%	6.00	159.03	165.03	7.5%	3.4%	22.8	12.6	5.6
28	380.2	131	99.7%	98.3%	6.00	164.92	170.92	7.8%	3.5%	23.6	13.0	5.8
29	393.8	137	99.8%	98.4%	6.00	170.81	176.81	8.1%	3.6%	24.4	13.5	6.1
30	407.4	118	99.8%	98.5%	6.00	176.70	182.70	8.4%	3.8%	25.2	13.9	6.3
31	420.9	119	99.8%	98.5%	6.00	182.59	188.59	8.6%	3.9%	26.0	14.4	6.5
32	434.5	82	99.8%	98.6%	6.00	188.48	194.48	8.9%	4.0%	26.8	14.8	6.7
33	448.1	71	99.8%	98.6%	6.00	194.37	200.37	9.2%	4.1%	27.6	15.3	6.9
34	461.7	89	99.8%	98.7%	6.00	200.26	206.26	9.4%	4.2%	28.4	15.7	7.1
35	475.3	72	99.8%	98.7%	6.00	206.15	212.15	9.7%	4.4%	29.3	16.2	7.3
36	488.8	58	99.8%	98.8%	6.00	212.04	218.04	10.0%	4.5%	30.1	16.6	7.5
37	502.4	53	99.9%	98.8%	6.00	217.93	223.93	10.2%	4.6%	30.9	17.1	7.7
38	516.0	59	99.9%	98.8%	6.00	223.82	229.82	10.5%	4.7%	31.7	17.5	7.9
39	529.6	45	99.9%	98.9%	6.00	229.71	235.71	10.8%	4.8%	32.5	18.0	8.1
40	543.2	38	99.9%	98.9%	6.00	235.60	241.60	11.1%	5.0%	33.3	18.4	8.3
41	556.7	42	99.9%	98.9%	6.00	241.49	247.49	11.3%	5.1%	34.1	18.9	8.5
42	570.3	38	99.9%	99.0%	6.00	247.38	253.38	11.6%	5.2%	34.9	19.3	8.7
43	583.9	43	99.9%	99.0%	6.00	253.27	259.27	11.9%	5.3%	35.8	19.8	8.9
44	597.5	36	99.9%	99.0%	6.00	259.16	265.16	12.1%	5.4%	36.6	20.2	9.1
45	611.1	31	99.9%	99.1%	6.00	265.05	271.05	12.4%	5.6%	37.4	20.7	9.3
46	624.6	29	99.9%	99.1%	6.00	270.94	276.94	12.7%	5.7%	38.2	21.1	9.5
47	638.2	22	99.9%	99.1%	6.00	276.83	282.83	12.9%	5.8%	39.0	21.6	9.7
48	651.8	18	99.9%	99.1%	6.00	282.72	288.72	13.2%	5.9%	39.8	22.0	9.9
49	665.4	27	99.9%	99.2%	6.00	288.61	294.61	13.5%	6.0%	40.6	22.5	10.1
50	679.0	26	99.9%	99.2%	6.00	294.50	300.50	13.7%	6.2%	41.4	22.9	10.3

Des Moines Outside City		Water Use Data			Monthly Water Bill			Bill % of Income		Hours Worked			
		# of Bills	Cumulative % of Bills	Cumulative % of Usage	Fixed	Volume	Total	Lowest Quintile	MHI	Min. Wage	Lowest Quintile	MHI	
Incomes								\$ 39,161	\$ 74,325	\$ 7.25	\$ 19.58	\$ 37.16	
Volume	g/p/d												
0	-	873	16.6%	0.0%	\$ 8.00	\$ -	\$ 8.00	0.2%	0.1%	1.1	0.4	0.2	
1	14.9	444	25.1%	21.5%	8.00	6.82	14.82	0.5%	0.2%	2.0	0.8	0.4	
2	29.8	705	38.5%	40.9%	8.00	13.64	21.64	0.7%	0.3%	3.0	1.1	0.6	
3	44.7	851	54.7%	56.7%	8.00	20.46	28.46	0.9%	0.5%	3.9	1.5	0.8	
4	59.5	Indoor Use	715	68.3%	68.4%	8.00	27.28	35.28	1.1%	0.6%	4.9	1.8	0.9
5	74.4		617	80.0%	76.6%	8.00	34.10	42.10	1.3%	0.7%	5.8	2.2	1.1
6	89.3		332	86.4%	81.8%	8.00	40.92	48.92	1.5%	0.8%	6.7	2.5	1.3
7	104.2		188	89.9%	85.3%	8.00	47.74	55.74	1.7%	0.9%	7.7	2.8	1.5
8	119.1	2% LQI	140	92.6%	87.9%	8.00	54.56	62.56	1.9%	1.0%	8.6	3.2	1.7
9	134.0		107	94.7%	89.8%	8.00	61.38	69.38	2.1%	1.1%	9.6	3.5	1.9
10	148.8		70	96.0%	91.2%	8.00	68.20	76.20	2.3%	1.2%	10.5	3.9	2.1
11	163.7		37	96.7%	92.2%	8.00	75.02	83.02	2.5%	1.3%	11.5	4.2	2.2
12	178.6		21	97.1%	93.1%	8.00	81.84	89.84	2.8%	1.5%	12.4	4.6	2.4
13	193.5		28	97.6%	93.8%	8.00	88.66	96.66	3.0%	1.6%	13.3	4.9	2.6
14	208.4		22	98.0%	94.4%	8.00	95.48	103.48	3.2%	1.7%	14.3	5.3	2.8
15	223.3		12	98.3%	94.9%	8.00	102.30	110.30	3.4%	1.8%	15.2	5.6	3.0
16	238.2		12	98.5%	95.4%	8.00	109.12	117.12	3.6%	1.9%	16.2	6.0	3.2
17	253.0	2% MHI	7	98.6%	95.8%	8.00	115.94	123.94	3.8%	2.0%	17.1	6.3	3.3
18	267.9		5	98.7%	96.1%	8.00	122.76	130.76	4.0%	2.1%	18.0	6.7	3.5
19	282.8		4	98.8%	96.5%	8.00	129.58	137.58	4.2%	2.2%	19.0	7.0	3.7
20	297.7		8	99.0%	96.8%	8.00	136.40	144.40	4.4%	2.3%	19.9	7.4	3.9
21	312.6		8	99.1%	97.0%	8.00	143.22	151.22	4.6%	2.4%	20.9	7.7	4.1
22	327.5		5	99.2%	97.3%	8.00	150.04	158.04	4.8%	2.6%	21.8	8.1	4.3
23	342.3		4	99.3%	97.5%	8.00	156.86	164.86	5.1%	2.7%	22.7	8.4	4.4
24	357.2		4	99.4%	97.7%	8.00	163.68	171.68	5.3%	2.8%	23.7	8.8	4.6
25	372.1		6	99.5%	97.8%	8.00	170.50	178.50	5.5%	2.9%	24.6	9.1	4.8
26	387.0		4	99.5%	98.0%	8.00	177.32	185.32	5.7%	3.0%	25.6	9.5	5.0
27	401.9		3	99.6%	98.1%	8.00	184.14	192.14	5.9%	3.1%	26.5	9.8	5.2
28	416.8		-	99.6%	98.2%	8.00	190.96	198.96	6.1%	3.2%	27.4	10.2	5.4
29	431.7		1	99.6%	98.3%	8.00	197.78	205.78	6.3%	3.3%	28.4	10.5	5.5
30	446.5		3	99.7%	98.4%	8.00	204.60	212.60	6.5%	3.4%	29.3	10.9	5.7
31	461.4		1	99.7%	98.5%	8.00	211.42	219.42	6.7%	3.5%	30.3	11.2	5.9
32	476.3		-	99.7%	98.6%	8.00	218.24	226.24	6.9%	3.7%	31.2	11.6	6.1
33	491.2		1	99.7%	98.6%	8.00	225.06	233.06	7.1%	3.8%	32.1	11.9	6.3
34	506.1		-	99.7%	98.7%	8.00	231.88	239.88	7.4%	3.9%	33.1	12.3	6.5
35	521.0		2	99.8%	98.8%	8.00	238.70	246.70	7.6%	4.0%	34.0	12.6	6.6
36	535.8		1	99.8%	98.8%	8.00	245.52	253.52	7.8%	4.1%	35.0	12.9	6.8
37	550.7		1	99.8%	98.9%	8.00	252.34	260.34	8.0%	4.2%	35.9	13.3	7.0
38	565.6		1	99.8%	99.0%	8.00	259.16	267.16	8.2%	4.3%	36.8	13.6	7.2
39	580.5		1	99.8%	99.0%	8.00	265.98	273.98	8.4%	4.4%	37.8	14.0	7.4
40	595.4		1	99.8%	99.1%	8.00	272.80	280.80	8.6%	4.5%	38.7	14.3	7.6
41	610.3		-	99.8%	99.1%	8.00	279.62	287.62	8.8%	4.6%	39.7	14.7	7.7
42	625.2		-	99.8%	99.1%	8.00	286.44	294.44	9.0%	4.8%	40.6	15.0	7.9
43	640.0		1	99.9%	99.2%	8.00	293.26	301.26	9.2%	4.9%	41.6	15.4	8.1
44	654.9		1	99.9%	99.2%	8.00	300.08	308.08	9.4%	5.0%	42.5	15.7	8.3
45	669.8		-	99.9%	99.2%	8.00	306.90	314.90	9.6%	5.1%	43.4	16.1	8.5
46	684.7		1	99.9%	99.3%	8.00	313.72	321.72	9.9%	5.2%	44.4	16.4	8.7
47	699.6		-	99.9%	99.3%	8.00	320.54	328.54	10.1%	5.3%	45.3	16.8	8.8
48	714.5		-	99.9%	99.3%	8.00	327.36	335.36	10.3%	5.4%	46.3	17.1	9.0
49	729.3		1	99.9%	99.3%	8.00	334.18	342.18	10.5%	5.5%	47.2	17.5	9.2
50	744.2		-	99.9%	99.4%	8.00	341.00	349.00	10.7%	5.6%	48.1	17.8	9.4

Alleman		Water Use Data			Monthly Water Bill			Bill % of Income		Hours Worked		
		# of Bills	Cumulative % of Bills	Cumulative % of Usage	Fixed	Volume	Total	Lowest Quintile	MHI	Min. Wage	Lowest Quintile	MHI
Incomes							\$ 70,500	\$ 115,000	\$	7.25	\$ 35.25	\$ 57.50
Volume	g/p/d											
0	-	18	1.0%	0.0%	\$ 7.85	\$ -	\$ 7.85	0.1%	0.1%	1.1	0.2	0.1
1	13.1	78	5.2%	21.9%	7.85	11.45	19.30	0.3%	0.2%	2.7	0.5	0.3
2	26.2	233	17.8%	42.9%	7.85	22.90	30.75	0.5%	0.3%	4.2	0.9	0.5
3	39.2	504	45.0%	61.1%	7.85	34.35	42.20	0.7%	0.4%	5.8	1.2	0.7
4	52.3 Indoor Use	337	63.2%	73.3%	7.85	45.80	53.65	0.9%	0.6%	7.4	1.5	0.9
5	65.4	254	76.9%	81.4%	7.85	57.25	65.10	1.1%	0.7%	9.0	1.8	1.1
6	78.5	161	85.6%	86.5%	7.85	68.70	76.55	1.3%	0.8%	10.6	2.2	1.3
7	91.6	77	89.8%	89.7%	7.85	80.15	88.00	1.5%	0.9%	12.1	2.5	1.5
8	104.6	53	92.7%	92.0%	7.85	91.60	99.45	1.7%	1.0%	13.7	2.8	1.7
9	117.7 2% LQI	43	95.0%	93.6%	7.85	103.05	110.90	1.9%	1.2%	15.3	3.1	1.9
10	130.8	21	96.1%	94.7%	7.85	114.50	122.35	2.1%	1.3%	16.9	3.5	2.1
11	143.9	17	97.0%	95.6%	7.85	125.95	133.80	2.3%	1.4%	18.5	3.8	2.3
12	157.0	10	97.6%	96.2%	7.85	137.40	145.25	2.5%	1.5%	20.0	4.1	2.5
13	170.1	7	97.9%	96.7%	7.85	148.85	156.70	2.7%	1.6%	21.6	4.4	2.7
14	183.1	7	98.3%	97.2%	7.85	160.30	168.15	2.9%	1.8%	23.2	4.8	2.9
15	196.2	5	98.6%	97.6%	7.85	171.75	179.60	3.1%	1.9%	24.8	5.1	3.1
16	209.3 2% MHI	2	98.7%	97.9%	7.85	183.20	191.05	3.3%	2.0%	26.4	5.4	3.3
17	222.4	6	99.0%	98.2%	7.85	194.65	202.50	3.4%	2.1%	27.9	5.7	3.5
18	235.5	-	99.0%	98.4%	7.85	206.10	213.95	3.6%	2.2%	29.5	6.1	3.7
19	248.5	1	99.1%	98.6%	7.85	217.55	225.40	3.8%	2.4%	31.1	6.4	3.9
20	261.6	2	99.2%	98.8%	7.85	229.00	236.85	4.0%	2.5%	32.7	6.7	4.1
21	274.7	-	99.2%	99.0%	7.85	240.45	248.30	4.2%	2.6%	34.2	7.0	4.3
22	287.8	3	99.4%	99.2%	7.85	251.90	259.75	4.4%	2.7%	35.8	7.4	4.5
23	300.9	2	99.5%	99.3%	7.85	263.35	271.20	4.6%	2.8%	37.4	7.7	4.7
24	313.9	1	99.5%	99.4%	7.85	274.80	282.65	4.8%	2.9%	39.0	8.0	4.9
25	327.0	2	99.6%	99.5%	7.85	286.25	294.10	5.0%	3.1%	40.6	8.3	5.1
26	340.1	1	99.7%	99.6%	7.85	297.70	305.55	5.2%	3.2%	42.1	8.7	5.3
27	353.2	2	99.8%	99.7%	7.85	309.15	317.00	5.4%	3.3%	43.7	9.0	5.5
28	366.3	-	99.8%	99.7%	7.85	320.60	328.45	5.6%	3.4%	45.3	9.3	5.7
29	379.4	2	99.9%	99.8%	7.85	332.05	339.90	5.8%	3.5%	46.9	9.6	5.9
30	392.4	-	99.9%	99.8%	7.85	343.50	351.35	6.0%	3.7%	48.5	10.0	6.1
31	405.5	1	99.9%	99.8%	7.85	354.95	362.80	6.2%	3.8%	50.0	10.3	6.3
32	418.6	-	99.9%	99.8%	7.85	366.40	374.25	6.4%	3.9%	51.6	10.6	6.5
33	431.7	-	99.9%	99.9%	7.85	377.85	385.70	6.6%	4.0%	53.2	10.9	6.7
34	444.8	-	99.9%	99.9%	7.85	389.30	397.15	6.8%	4.1%	54.8	11.3	6.9
35	457.8	-	99.9%	99.9%	7.85	400.75	408.60	7.0%	4.3%	56.4	11.6	7.1
36	470.9	-	99.9%	99.9%	7.85	412.20	420.05	7.1%	4.4%	57.9	11.9	7.3
37	484.0	-	99.9%	99.9%	7.85	423.65	431.50	7.3%	4.5%	59.5	12.2	7.5
38	497.1	-	99.9%	99.9%	7.85	435.10	442.95	7.5%	4.6%	61.1	12.6	7.7
39	510.2	-	99.9%	99.9%	7.85	446.55	454.40	7.7%	4.7%	62.7	12.9	7.9
40	523.2	-	99.9%	99.9%	7.85	458.00	465.85	7.9%	4.9%	64.3	13.2	8.1
41	536.3	-	99.9%	100.0%	7.85	469.45	477.30	8.1%	5.0%	65.8	13.5	8.3
42	549.4	-	99.9%	100.0%	7.85	480.90	488.75	8.3%	5.1%	67.4	13.9	8.5
43	562.5	-	99.9%	100.0%	7.85	492.35	500.20	8.5%	5.2%	69.0	14.2	8.7
44	575.6	-	99.9%	100.0%	7.85	503.80	511.65	8.7%	5.3%	70.6	14.5	8.9
45	588.7	1	100.0%	100.0%	7.85	515.25	523.10	8.9%	5.5%	72.2	14.8	9.1
46	601.7	-	100.0%	100.0%	7.85	526.70	534.55	9.1%	5.6%	73.7	15.2	9.3
47	614.8	-	100.0%	100.0%	7.85	538.15	546.00	9.3%	5.7%	75.3	15.5	9.5
48	627.9	-	100.0%	100.0%	7.85	549.60	557.45	9.5%	5.8%	76.9	15.8	9.7
49	641.0	-	100.0%	100.0%	7.85	561.05	568.90	9.7%	5.9%	78.5	16.1	9.9
50	654.1	-	100.0%	100.0%	7.85	572.50	580.35	9.9%	6.1%	80.0	16.5	10.1

Berwick	Water Use Data			Monthly Water Bill			Bill % of Income		Hours Worked		
	# of Bills	Cumulative % of Bills	Cumulative % of Usage	Fixed	Volume	Total	Lowest Quintile	MHI	Min. Wage	Lowest Quintile	MHI

Incomes \$17,360 \$53,764 \$ 7.25 \$ 8.68 \$ 26.88

Volume	g/p/d											
0	-	122	4.8%	0.0%	\$ 3.00	\$ -	\$ 3.00	0.2%	0.1%	0.4	0.3	0.1
1	14.0	165	11.3%	17.0%	3.00	4.62	7.62	0.5%	0.2%	1.1	0.9	0.3
2	28.0	392	26.7%	32.8%	3.00	9.24	12.24	0.8%	0.3%	1.7	1.4	0.5
3	42.0	566	48.9%	45.9%	3.00	13.86	16.86	1.2%	0.4%	2.3	1.9	0.6
4	56.0 Indoor Use	359	63.0%	55.0%	3.00	18.48	21.48	1.5%	0.5%	3.0	2.5	0.8
5	70.0 2% LQI	270	73.6%	61.6%	3.00	23.10	26.10	1.8%	0.6%	3.6	3.0	1.0
6	84.0	193	81.2%	66.3%	3.00	27.72	30.72	2.1%	0.7%	4.2	3.5	1.1
7	98.0	117	85.7%	69.7%	3.00	32.34	35.34	2.4%	0.8%	4.9	4.1	1.3
8	112.0	73	88.6%	72.2%	3.00	36.96	39.96	2.8%	0.9%	5.5	4.6	1.5
9	126.0	51	90.6%	74.2%	3.00	41.58	44.58	3.1%	1.0%	6.1	5.1	1.7
10	140.0	41	92.2%	75.9%	3.00	46.20	49.20	3.4%	1.1%	6.8	5.7	1.8
11	154.0	30	93.4%	77.3%	3.00	50.82	53.82	3.7%	1.2%	7.4	6.2	2.0
12	168.0	23	94.3%	78.5%	3.00	55.44	58.44	4.0%	1.3%	8.1	6.7	2.2
13	182.0	15	94.9%	79.5%	3.00	60.06	63.06	4.4%	1.4%	8.7	7.3	2.3
14	196.0	13	95.4%	80.4%	3.00	64.68	67.68	4.7%	1.5%	9.3	7.8	2.5
15	210.0	9	95.8%	81.2%	3.00	69.30	72.30	5.0%	1.6%	10.0	8.3	2.7
16	224.0	7	96.0%	82.0%	3.00	73.92	76.92	5.3%	1.7%	10.6	8.9	2.9
17	238.0	3	96.2%	82.7%	3.00	78.54	81.54	5.6%	1.8%	11.2	9.4	3.0
18	251.9	3	96.3%	83.4%	3.00	83.16	86.16	6.0%	1.9%	11.9	9.9	3.2
19	265.9 2% MHI	8	96.6%	84.0%	3.00	87.78	90.78	6.3%	2.0%	12.5	10.5	3.4
20	279.9	15	97.2%	84.6%	3.00	92.40	95.40	6.6%	2.1%	13.2	11.0	3.5
21	293.9	11	97.6%	85.1%	3.00	97.02	100.02	6.9%	2.2%	13.8	11.5	3.7
22	307.9	13	98.1%	85.6%	3.00	101.64	104.64	7.2%	2.3%	14.4	12.1	3.9
23	321.9	6	98.4%	85.9%	3.00	106.26	109.26	7.6%	2.4%	15.1	12.6	4.1
24	335.9	4	98.5%	86.2%	3.00	110.88	113.88	7.9%	2.5%	15.7	13.1	4.2
25	349.9	1	98.5%	86.5%	3.00	115.50	118.50	8.2%	2.6%	16.3	13.7	4.4
26	363.9	-	98.5%	86.7%	3.00	120.12	123.12	8.5%	2.7%	17.0	14.2	4.6
27	377.9	2	98.6%	87.0%	3.00	124.74	127.74	8.8%	2.9%	17.6	14.7	4.8
28	391.9	-	98.6%	87.2%	3.00	129.36	132.36	9.1%	3.0%	18.3	15.2	4.9
29	405.9	2	98.7%	87.5%	3.00	133.98	136.98	9.5%	3.1%	18.9	15.8	5.1
30	419.9	1	98.7%	87.7%	3.00	138.60	141.60	9.8%	3.2%	19.5	16.3	5.3
31	433.9	-	98.7%	87.9%	3.00	143.22	146.22	10.1%	3.3%	20.2	16.8	5.4
32	447.9	2	98.8%	88.1%	3.00	147.84	150.84	10.4%	3.4%	20.8	17.4	5.6
33	461.9	-	98.8%	88.4%	3.00	152.46	155.46	10.7%	3.5%	21.4	17.9	5.8
34	475.9	2	98.9%	88.6%	3.00	157.08	160.08	11.1%	3.6%	22.1	18.4	6.0
35	489.9	2	99.0%	88.8%	3.00	161.70	164.70	11.4%	3.7%	22.7	19.0	6.1
36	503.9	1	99.0%	88.9%	3.00	166.32	169.32	11.7%	3.8%	23.4	19.5	6.3
37	517.9	2	99.1%	89.1%	3.00	170.94	173.94	12.0%	3.9%	24.0	20.0	6.5
38	531.9	2	99.2%	89.3%	3.00	175.56	178.56	12.3%	4.0%	24.6	20.6	6.6
39	545.9	-	99.2%	89.4%	3.00	180.18	183.18	12.7%	4.1%	25.3	21.1	6.8
40	559.9	-	99.2%	89.6%	3.00	184.80	187.80	13.0%	4.2%	25.9	21.6	7.0
41	573.9	3	99.3%	89.7%	3.00	189.42	192.42	13.3%	4.3%	26.5	22.2	7.2
42	587.9	1	99.3%	89.8%	3.00	194.04	197.04	13.6%	4.4%	27.2	22.7	7.3
43	601.9	-	99.3%	90.0%	3.00	198.66	201.66	13.9%	4.5%	27.8	23.2	7.5
44	615.9	-	99.3%	90.1%	3.00	203.28	206.28	14.3%	4.6%	28.5	23.8	7.7
45	629.9	-	99.3%	90.2%	3.00	207.90	210.90	14.6%	4.7%	29.1	24.3	7.8
46	643.9	-	99.3%	90.3%	3.00	212.52	215.52	14.9%	4.8%	29.7	24.8	8.0
47	657.9	1	99.4%	90.4%	3.00	217.14	220.14	15.2%	4.9%	30.4	25.4	8.2
48	671.9	-	99.4%	90.6%	3.00	221.76	224.76	15.5%	5.0%	31.0	25.9	8.4
49	685.9	-	99.4%	90.7%	3.00	226.38	229.38	15.9%	5.1%	31.6	26.4	8.5
50	699.9	-	99.4%	90.8%	3.00	231.00	234.00	16.2%	5.2%	32.3	27.0	8.7

Cumming			Water Use Data			Monthly Water Bill			Bill % of Income		Hours Worked		
			# of Bills	Cumulative % of Bills	Cumulative % of Usage	Fixed	Volume	Total	Lowest Quintile	MHI	Min. Wage	Lowest Quintile	MHI
Incomes								\$71,000	\$ 135,000	\$ 7.25	\$ 35.50	\$ 67.50	
Volume	g/p/d												
0	-		75	4.6%	0.0%	\$ 12.15	\$ -	\$ 12.15	0.2%	0.1%	1.7	0.3	0.2
1	11.6		115	11.7%	17.3%	12.15	9.64	21.79	0.4%	0.2%	3.0	0.6	0.3
2	23.2		199	24.0%	33.4%	12.15	19.28	31.43	0.5%	0.3%	4.3	0.9	0.5
3	34.8		279	41.3%	47.2%	12.15	28.92	41.07	0.7%	0.4%	5.7	1.2	0.6
4	46.4		271	58.0%	57.9%	12.15	38.56	50.71	0.9%	0.5%	7.0	1.4	0.8
5	58.1	Indoor Use	209	71.0%	65.5%	12.15	48.20	60.35	1.0%	0.5%	8.3	1.7	0.9
6	69.7		109	77.7%	70.8%	12.15	57.84	69.99	1.2%	0.6%	9.7	2.0	1.0
7	81.3		81	82.7%	74.8%	12.15	67.48	79.63	1.3%	0.7%	11.0	2.2	1.2
8	92.9		60	86.4%	78.0%	12.15	77.12	89.27	1.5%	0.8%	12.3	2.5	1.3
9	104.5		45	89.2%	80.4%	12.15	86.76	98.91	1.7%	0.9%	13.6	2.8	1.5
10	116.1		26	90.8%	82.4%	12.15	96.40	108.55	1.8%	1.0%	15.0	3.1	1.6
11	127.7	2% LQI	23	92.2%	84.1%	12.15	106.04	118.19	2.0%	1.1%	16.3	3.3	1.8
12	139.3		23	93.6%	85.5%	12.15	115.68	127.83	2.2%	1.1%	17.6	3.6	1.9
13	151.0		12	94.4%	86.7%	12.15	125.32	137.47	2.3%	1.2%	19.0	3.9	2.0
14	162.6		9	94.9%	87.7%	12.15	134.96	147.11	2.5%	1.3%	20.3	4.1	2.2
15	174.2		8	95.4%	88.6%	12.15	144.60	156.75	2.6%	1.4%	21.6	4.4	2.3
16	185.8		11	96.1%	89.4%	12.15	154.24	166.39	2.8%	1.5%	23.0	4.7	2.5
17	197.4		10	96.7%	90.1%	12.15	163.88	176.03	3.0%	1.6%	24.3	5.0	2.6
18	209.0		5	97.0%	90.7%	12.15	173.52	185.67	3.1%	1.7%	25.6	5.2	2.8
19	220.6		5	97.3%	91.3%	12.15	183.16	195.31	3.3%	1.7%	26.9	5.5	2.9
20	232.2		3	97.5%	91.8%	12.15	192.80	204.95	3.5%	1.8%	28.3	5.8	3.0
21	243.9		1	97.6%	92.2%	12.15	202.44	214.59	3.6%	1.9%	29.6	6.0	3.2
22	255.5	2% MHI	3	97.8%	92.6%	12.15	212.08	224.23	3.8%	2.0%	30.9	6.3	3.3
23	267.1		3	98.0%	93.0%	12.15	221.72	233.87	4.0%	2.1%	32.3	6.6	3.5
24	278.7		3	98.1%	93.4%	12.15	231.36	243.51	4.1%	2.2%	33.6	6.9	3.6
25	290.3		2	98.3%	93.8%	12.15	241.00	253.15	4.3%	2.3%	34.9	7.1	3.8
26	301.9		4	98.5%	94.1%	12.15	250.64	262.79	4.4%	2.3%	36.2	7.4	3.9
27	313.5		1	98.6%	94.3%	12.15	260.28	272.43	4.6%	2.4%	37.6	7.7	4.0
28	325.1		1	98.6%	94.6%	12.15	269.92	282.07	4.8%	2.5%	38.9	7.9	4.2
29	336.8		2	98.8%	94.8%	12.15	279.56	291.71	4.9%	2.6%	40.2	8.2	4.3
30	348.4		2	98.9%	95.1%	12.15	289.20	301.35	5.1%	2.7%	41.6	8.5	4.5
31	360.0		1	98.9%	95.3%	12.15	298.84	310.99	5.3%	2.8%	42.9	8.8	4.6
32	371.6		-	98.9%	95.5%	12.15	308.48	320.63	5.4%	2.9%	44.2	9.0	4.8
33	383.2		1	99.0%	95.7%	12.15	318.12	330.27	5.6%	2.9%	45.6	9.3	4.9
34	394.8		-	99.0%	95.8%	12.15	327.76	339.91	5.7%	3.0%	46.9	9.6	5.0
35	406.4		1	99.1%	96.0%	12.15	337.40	349.55	5.9%	3.1%	48.2	9.8	5.2
36	418.0		-	99.1%	96.2%	12.15	347.04	359.19	6.1%	3.2%	49.5	10.1	5.3
37	429.7		-	99.1%	96.3%	12.15	356.68	368.83	6.2%	3.3%	50.9	10.4	5.5
38	441.3		1	99.1%	96.5%	12.15	366.32	378.47	6.4%	3.4%	52.2	10.7	5.6
39	452.9		2	99.3%	96.7%	12.15	375.96	388.11	6.6%	3.4%	53.5	10.9	5.7
40	464.5		2	99.4%	96.8%	12.15	385.60	397.75	6.7%	3.5%	54.9	11.2	5.9
41	476.1		-	99.4%	96.9%	12.15	395.24	407.39	6.9%	3.6%	56.2	11.5	6.0
42	487.7		-	99.4%	97.0%	12.15	404.88	417.03	7.0%	3.7%	57.5	11.7	6.2
43	499.3		-	99.4%	97.1%	12.15	414.52	426.67	7.2%	3.8%	58.9	12.0	6.3
44	510.9		1	99.4%	97.3%	12.15	424.16	436.31	7.4%	3.9%	60.2	12.3	6.5
45	522.6		1	99.5%	97.4%	12.15	433.80	445.95	7.5%	4.0%	61.5	12.6	6.6
46	534.2		-	99.5%	97.4%	12.15	443.44	455.59	7.7%	4.0%	62.8	12.8	6.7
47	545.8		-	99.5%	97.5%	12.15	453.08	465.23	7.9%	4.1%	64.2	13.1	6.9
48	557.4		-	99.5%	97.6%	12.15	462.72	474.87	8.0%	4.2%	65.5	13.4	7.0
49	569.0		1	99.6%	97.7%	12.15	472.36	484.51	8.2%	4.3%	66.8	13.6	7.2
50	580.6		-	99.6%	97.8%	12.15	482.00	494.15	8.4%	4.4%	68.2	13.9	7.3

Greenfield Plaza		Water Use Data			Monthly Water Bill			Bill % of Income		Hours Worked			
		# of Bills	Cumulative % of Bills	Cumulative % of Usage	Fixed	Volume	Total	Lowest Quintile	MHI	Min. Wage	Lowest Quintile	MHI	
Incomes								\$ 18,682	\$ 34,886	\$ 7.25	\$ 9.34	\$ 17.44	
Volume	g/p/d												
0	-	1,628	17.4%	0.0%	\$ 8.00	\$ -	\$ 8.00	0.5%	0.3%	1.1	0.9	0.5	
1	13.5	704	24.9%	25.1%	8.00	6.82	14.82	1.0%	0.5%	2.0	1.6	0.8	
2	27.0	1,451	40.4%	48.0%	8.00	13.64	21.64	1.4%	0.7%	3.0	2.3	1.2	
3	40.5	2% LQI	1,805	59.6%	66.1%	8.00	20.46	28.46	1.8%	1.0%	3.9	3.0	1.6
4	54.0	Indoor Use	1,423	74.8%	78.4%	8.00	27.28	35.28	2.3%	1.2%	4.9	3.8	2.0
5	67.5		873	84.1%	86.0%	8.00	34.10	42.10	2.7%	1.4%	5.8	4.5	2.4
6	81.0		621	90.7%	90.9%	8.00	40.92	48.92	3.1%	1.7%	6.7	5.2	2.8
7	94.5	2% MHI	343	94.4%	93.7%	8.00	47.74	55.74	3.6%	1.9%	7.7	6.0	3.2
8	108.0		188	96.4%	95.4%	8.00	54.56	62.56	4.0%	2.2%	8.6	6.7	3.6
9	121.5		112	97.6%	96.5%	8.00	61.38	69.38	4.5%	2.4%	9.6	7.4	4.0
10	135.0		60	98.2%	97.2%	8.00	68.20	76.20	4.9%	2.6%	10.5	8.2	4.4
11	148.5		37	98.6%	97.7%	8.00	75.02	83.02	5.3%	2.9%	11.5	8.9	4.8
12	162.0		26	98.9%	98.1%	8.00	81.84	89.84	5.8%	3.1%	12.4	9.6	5.2
13	175.5		20	99.1%	98.5%	8.00	88.66	96.66	6.2%	3.3%	13.3	10.3	5.5
14	189.0		11	99.2%	98.7%	8.00	95.48	103.48	6.6%	3.6%	14.3	11.1	5.9
15	202.5		16	99.4%	99.0%	8.00	102.30	110.30	7.1%	3.8%	15.2	11.8	6.3
16	216.0		10	99.5%	99.1%	8.00	109.12	117.12	7.5%	4.0%	16.2	12.5	6.7
17	229.5		9	99.6%	99.3%	8.00	115.94	123.94	8.0%	4.3%	17.1	13.3	7.1
18	242.9		3	99.6%	99.4%	8.00	122.76	130.76	8.4%	4.5%	18.0	14.0	7.5
19	256.4		5	99.7%	99.5%	8.00	129.58	137.58	8.8%	4.7%	19.0	14.7	7.9
20	269.9		2	99.7%	99.6%	8.00	136.40	144.40	9.3%	5.0%	19.9	15.5	8.3
21	283.4		5	99.8%	99.7%	8.00	143.22	151.22	9.7%	5.2%	20.9	16.2	8.7
22	296.9		8	99.9%	99.8%	8.00	150.04	158.04	10.2%	5.4%	21.8	16.9	9.1
23	310.4		3	99.9%	99.8%	8.00	156.86	164.86	10.6%	5.7%	22.7	17.6	9.5
24	323.9		4	99.9%	99.8%	8.00	163.68	171.68	11.0%	5.9%	23.7	18.4	9.8
25	337.4		-	99.9%	99.9%	8.00	170.50	178.50	11.5%	6.1%	24.6	19.1	10.2
26	350.9		2	100.0%	99.9%	8.00	177.32	185.32	11.9%	6.4%	25.6	19.8	10.6
27	364.4		-	100.0%	99.9%	8.00	184.14	192.14	12.3%	6.6%	26.5	20.6	11.0
28	377.9		-	100.0%	99.9%	8.00	190.96	198.96	12.8%	6.8%	27.4	21.3	11.4
29	391.4		-	100.0%	99.9%	8.00	197.78	205.78	13.2%	7.1%	28.4	22.0	11.8
30	404.9		-	100.0%	99.9%	8.00	204.60	212.60	13.7%	7.3%	29.3	22.8	12.2
31	418.4		1	100.0%	99.9%	8.00	211.42	219.42	14.1%	7.5%	30.3	23.5	12.6
32	431.9		-	100.0%	99.9%	8.00	218.24	226.24	14.5%	7.8%	31.2	24.2	13.0
33	445.4		-	100.0%	100.0%	8.00	225.06	233.06	15.0%	8.0%	32.1	25.0	13.4
34	458.9		1	100.0%	100.0%	8.00	231.88	239.88	15.4%	8.3%	33.1	25.7	13.8
35	472.4		1	100.0%	100.0%	8.00	238.70	246.70	15.8%	8.5%	34.0	26.4	14.1
36	485.9		-	100.0%	100.0%	8.00	245.52	253.52	16.3%	8.7%	35.0	27.1	14.5
37	499.4		-	100.0%	100.0%	8.00	252.34	260.34	16.7%	9.0%	35.9	27.9	14.9
38	512.9		-	100.0%	100.0%	8.00	259.16	267.16	17.2%	9.2%	36.8	28.6	15.3
39	526.4		-	100.0%	100.0%	8.00	265.98	273.98	17.6%	9.4%	37.8	29.3	15.7
40	539.9		-	100.0%	100.0%	8.00	272.80	280.80	18.0%	9.7%	38.7	30.1	16.1
41	553.4		-	100.0%	100.0%	8.00	279.62	287.62	18.5%	9.9%	39.7	30.8	16.5
42	566.9		-	100.0%	100.0%	8.00	286.44	294.44	18.9%	10.1%	40.6	31.5	16.9
43	580.4		1	100.0%	100.0%	8.00	293.26	301.26	19.4%	10.4%	41.6	32.3	17.3
44	593.9		-	100.0%	100.0%	8.00	300.08	308.08	19.8%	10.6%	42.5	33.0	17.7
45	607.4		-	100.0%	100.0%	8.00	306.90	314.90	20.2%	10.8%	43.4	33.7	18.1
46	620.9		-	100.0%	100.0%	8.00	313.72	321.72	20.7%	11.1%	44.4	34.4	18.4
47	634.4		-	100.0%	100.0%	8.00	320.54	328.54	21.1%	11.3%	45.3	35.2	18.8
48	647.9		-	100.0%	100.0%	8.00	327.36	335.36	21.5%	11.5%	46.3	35.9	19.2
49	661.4		-	100.0%	100.0%	8.00	334.18	342.18	22.0%	11.8%	47.2	36.6	19.6
50	674.9		-	100.0%	100.0%	8.00	341.00	349.00	22.4%	12.0%	48.1	37.4	20.0

Pleasant Hill Inside City	Water Use Data			Monthly Water Bill			Bill % of Income		Hours Worked		
	# of Bills	Cumulative % of Bills	Cumulative % of Usage	Fixed	Volume	Total	Lowest Quintile	MHI	Min. Wage	Lowest Quintile	MHI

Incomes \$43,090 \$76,371 \$ 7.25 \$ 21.55 \$ 38.19

Volume	g/p/d												
0	-		504	1.3%	0.0%	\$ 8.00	\$ -	\$ 8.00	0.2%	0.1%	1.1	0.4	0.2
1	12.3		2,803	8.3%	25.8%	8.00	10.34	18.34	0.5%	0.3%	2.5	0.9	0.5
2	24.6		7,254	26.6%	49.7%	8.00	20.68	28.68	0.8%	0.5%	4.0	1.3	0.8
3	36.9		9,229	49.9%	68.8%	8.00	31.02	39.02	1.1%	0.6%	5.4	1.8	1.0
4	49.2		7,971	70.0%	81.9%	8.00	41.36	49.36	1.4%	0.8%	6.8	2.3	1.3
5	61.5	Indoor Use	5,179	83.1%	89.7%	8.00	51.70	59.70	1.7%	0.9%	8.2	2.8	1.6
6	73.8	2% LQI	3,003	90.7%	94.1%	8.00	62.04	70.04	2.0%	1.1%	9.7	3.3	1.8
7	86.1		1,686	94.9%	96.5%	8.00	72.38	80.38	2.2%	1.3%	11.1	3.7	2.1
8	98.4		885	97.2%	97.9%	8.00	82.72	90.72	2.5%	1.4%	12.5	4.2	2.4
9	110.7		444	98.3%	98.6%	8.00	93.06	101.06	2.8%	1.6%	13.9	4.7	2.6
10	123.0		231	98.9%	99.0%	8.00	103.40	111.40	3.1%	1.8%	15.4	5.2	2.9
11	135.3	2% MHI	139	99.2%	99.3%	8.00	113.74	121.74	3.4%	1.9%	16.8	5.7	3.2
12	147.6		103	99.5%	99.5%	8.00	124.08	132.08	3.7%	2.1%	18.2	6.1	3.5
13	159.9		52	99.6%	99.7%	8.00	134.42	142.42	4.0%	2.2%	19.6	6.6	3.7
14	172.2		42	99.7%	99.8%	8.00	144.76	152.76	4.3%	2.4%	21.1	7.1	4.0
15	184.6		32	99.8%	99.8%	8.00	155.10	163.10	4.5%	2.6%	22.5	7.6	4.3
16	196.9		12	99.8%	99.9%	8.00	165.44	173.44	4.8%	2.7%	23.9	8.1	4.5
17	209.2		29	99.9%	99.9%	8.00	175.78	183.78	5.1%	2.9%	25.3	8.5	4.8
18	221.5		14	99.9%	100.0%	8.00	186.12	194.12	5.4%	3.1%	26.8	9.0	5.1
19	233.8		12	100.0%	100.0%	8.00	196.46	204.46	5.7%	3.2%	28.2	9.5	5.4
20	246.1		9	100.0%	100.0%	8.00	206.80	214.80	6.0%	3.4%	29.6	10.0	5.6
21	258.4		-	100.0%	100.0%	8.00	215.52	223.52	6.2%	3.5%	30.8	10.4	5.9
22	270.7		-	100.0%	100.0%	8.00	224.24	232.24	6.5%	3.6%	32.0	10.8	6.1
23	283.0		-	100.0%	100.0%	8.00	232.96	240.96	6.7%	3.8%	33.2	11.2	6.3
24	295.3		-	100.0%	100.0%	8.00	241.68	249.68	7.0%	3.9%	34.4	11.6	6.5
25	307.6		-	100.0%	100.0%	8.00	250.40	258.40	7.2%	4.1%	35.6	12.0	6.8
26	319.9		-	100.0%	100.0%	8.00	259.12	267.12	7.4%	4.2%	36.8	12.4	7.0
27	332.2		-	100.0%	100.0%	8.00	267.84	275.84	7.7%	4.3%	38.0	12.8	7.2
28	344.5		-	100.0%	100.0%	8.00	276.56	284.56	7.9%	4.5%	39.2	13.2	7.5
29	356.8		-	100.0%	100.0%	8.00	285.28	293.28	8.2%	4.6%	40.5	13.6	7.7
30	369.1		1	100.0%	100.0%	8.00	294.00	302.00	8.4%	4.7%	41.7	14.0	7.9
31	381.4		1	100.0%	100.0%	8.00	302.72	310.72	8.7%	4.9%	42.9	14.4	8.1
32	393.7		-	100.0%	100.0%	8.00	311.44	319.44	8.9%	5.0%	44.1	14.8	8.4
33	406.0		-	100.0%	100.0%	8.00	320.16	328.16	9.1%	5.2%	45.3	15.2	8.6
34	418.3		-	100.0%	100.0%	8.00	328.88	336.88	9.4%	5.3%	46.5	15.6	8.8
35	430.6		-	100.0%	100.0%	8.00	337.60	345.60	9.6%	5.4%	47.7	16.0	9.1
36	442.9		-	100.0%	100.0%	8.00	346.32	354.32	9.9%	5.6%	48.9	16.4	9.3
37	455.2		-	100.0%	100.0%	8.00	355.04	363.04	10.1%	5.7%	50.1	16.9	9.5
38	467.5		-	100.0%	100.0%	8.00	363.76	371.76	10.4%	5.8%	51.3	17.3	9.7
39	479.8		-	100.0%	100.0%	8.00	372.48	380.48	10.6%	6.0%	52.5	17.7	10.0
40	492.1		-	100.0%	100.0%	8.00	381.20	389.20	10.8%	6.1%	53.7	18.1	10.2
41	504.4		-	100.0%	100.0%	8.00	389.92	397.92	11.1%	6.3%	54.9	18.5	10.4
42	516.7		-	100.0%	100.0%	8.00	398.64	406.64	11.3%	6.4%	56.1	18.9	10.6
43	529.1		-	100.0%	100.0%	8.00	407.36	415.36	11.6%	6.5%	57.3	19.3	10.9
44	541.4		-	100.0%	100.0%	8.00	416.08	424.08	11.8%	6.7%	58.5	19.7	11.1
45	553.7		-	100.0%	100.0%	8.00	424.80	432.80	12.1%	6.8%	59.7	20.1	11.3
46	566.0		-	100.0%	100.0%	8.00	433.52	441.52	12.3%	6.9%	60.9	20.5	11.6
47	578.3		-	100.0%	100.0%	8.00	442.24	450.24	12.5%	7.1%	62.1	20.9	11.8
48	590.6		-	100.0%	100.0%	8.00	450.96	458.96	12.8%	7.2%	63.3	21.3	12.0
49	602.9		-	100.0%	100.0%	8.00	459.68	467.68	13.0%	7.3%	64.5	21.7	12.2
50	615.2		-	100.0%	100.0%	8.00	468.40	476.40	13.3%	7.5%	65.7	22.1	12.5

Pleasant Hill Outside City	Monthly Water Bill			Bill % of Income		Hours Worked		
	Fixed	Volume	Total	Lowest Quintile	MHI	Min. Wage	Lowest Quintile	MHI

Incomes \$43,090 \$76,371 \$ 7.25 \$ 21.55 \$ 38.19

Volume g/p/d

0	-		\$ 10.00	\$ -	\$ 10.00	0.3%	0.2%	1.4	0.5	0.3
1	12.3		10.00	17.17	27.17	0.8%	0.4%	3.7	1.3	0.7
2	24.6		10.00	34.34	44.34	1.2%	0.7%	6.1	2.1	1.2
3	36.9	2% LQI	10.00	51.51	61.51	1.7%	1.0%	8.5	2.9	1.6
4	49.2		10.00	68.68	78.68	2.2%	1.2%	10.9	3.7	2.1
5	61.5	Indoor Use	10.00	85.85	95.85	2.7%	1.5%	13.2	4.4	2.5
6	73.8		10.00	103.02	113.02	3.1%	1.8%	15.6	5.2	3.0
7	86.1	2% MHI	10.00	120.19	130.19	3.6%	2.0%	18.0	6.0	3.4
8	98.4		10.00	137.36	147.36	4.1%	2.3%	20.3	6.8	3.9
9	110.7		10.00	154.53	164.53	4.6%	2.6%	22.7	7.6	4.3
10	123.0		10.00	171.70	181.70	5.1%	2.9%	25.1	8.4	4.8
11	135.3		10.00	188.87	198.87	5.5%	3.1%	27.4	9.2	5.2
12	147.6		10.00	206.04	216.04	6.0%	3.4%	29.8	10.0	5.7
13	159.9		10.00	223.21	233.21	6.5%	3.7%	32.2	10.8	6.1
14	172.2		10.00	240.38	250.38	7.0%	3.9%	34.5	11.6	6.6
15	184.6		10.00	257.55	267.55	7.5%	4.2%	36.9	12.4	7.0
16	196.9		10.00	274.72	284.72	7.9%	4.5%	39.3	13.2	7.5
17	209.2		10.00	291.89	301.89	8.4%	4.7%	41.6	14.0	7.9
18	221.5		10.00	309.06	319.06	8.9%	5.0%	44.0	14.8	8.4
19	233.8		10.00	326.23	336.23	9.4%	5.3%	46.4	15.6	8.8
20	246.1		10.00	343.40	353.40	9.8%	5.6%	48.7	16.4	9.3
21	258.4		10.00	360.57	370.57	10.3%	5.8%	51.1	17.2	9.7
22	270.7		10.00	377.74	387.74	10.8%	6.1%	53.5	18.0	10.2
23	283.0		10.00	394.91	404.91	11.3%	6.4%	55.8	18.8	10.6
24	295.3		10.00	412.08	422.08	11.8%	6.6%	58.2	19.6	11.1
25	307.6		10.00	429.25	439.25	12.2%	6.9%	60.6	20.4	11.5
26	319.9		10.00	446.42	456.42	12.7%	7.2%	63.0	21.2	12.0
27	332.2		10.00	463.59	473.59	13.2%	7.4%	65.3	22.0	12.4
28	344.5		10.00	480.76	490.76	13.7%	7.7%	67.7	22.8	12.9
29	356.8		10.00	497.93	507.93	14.1%	8.0%	70.1	23.6	13.3
30	369.1		10.00	515.10	525.10	14.6%	8.3%	72.4	24.4	13.8
31	381.4		10.00	532.27	542.27	15.1%	8.5%	74.8	25.2	14.2
32	393.7		10.00	549.44	559.44	15.6%	8.8%	77.2	26.0	14.7
33	406.0		10.00	566.61	576.61	16.1%	9.1%	79.5	26.8	15.1
34	418.3		10.00	583.78	593.78	16.5%	9.3%	81.9	27.6	15.5
35	430.6		10.00	600.95	610.95	17.0%	9.6%	84.3	28.4	16.0
36	442.9		10.00	618.12	628.12	17.5%	9.9%	86.6	29.2	16.4
37	455.2		10.00	635.29	645.29	18.0%	10.1%	89.0	30.0	16.9
38	467.5		10.00	652.46	662.46	18.4%	10.4%	91.4	30.7	17.3
39	479.8		10.00	669.63	679.63	18.9%	10.7%	93.7	31.5	17.8
40	492.1		10.00	686.80	696.80	19.4%	10.9%	96.1	32.3	18.2
41	504.4		10.00	703.97	713.97	19.9%	11.2%	98.5	33.1	18.7
42	516.7		10.00	721.14	731.14	20.4%	11.5%	100.8	33.9	19.1
43	529.1		10.00	738.31	748.31	20.8%	11.8%	103.2	34.7	19.6
44	541.4		10.00	755.48	765.48	21.3%	12.0%	105.6	35.5	20.0
45	553.7		10.00	772.65	782.65	21.8%	12.3%	108.0	36.3	20.5
46	566.0		10.00	789.82	799.82	22.3%	12.6%	110.3	37.1	20.9
47	578.3		10.00	806.99	816.99	22.8%	12.8%	112.7	37.9	21.4
48	590.6		10.00	824.16	834.16	23.2%	13.1%	115.1	38.7	21.8
49	602.9		10.00	841.33	851.33	23.7%	13.4%	117.4	39.5	22.3
50	615.2		10.00	858.50	868.50	24.2%	13.6%	119.8	40.3	22.7

Polk County		Water Use Data			Monthly Water Bill			Bill % of Income		Hours Worked		
		# of Bills	Cumulative % of Bills	Cumulative % of Usage	Fixed	Volume	Total	Lowest Quintile	MHI	Min. Wage	Lowest Quintile	MHI
Incomes								\$57,874	\$109,413	\$ 7.25	\$ 28.94	\$ 54.71
Volume	g/p/d											
0	-	2,819	3.4%	0.0%	\$ 7.00	\$ -	\$ 7.00	0.1%	0.1%	1.0	0.2	0.1
1	11.5	6,586	11.3%	20.7%	7.00	12.62	19.62	0.4%	0.2%	2.7	0.7	0.4
2	23.1	13,492	27.4%	39.7%	7.00	25.24	32.24	0.7%	0.4%	4.4	1.1	0.6
3	34.6	16,882	47.6%	55.3%	7.00	37.86	44.86	0.9%	0.5%	6.2	1.6	0.8
4	46.2	14,028	64.4%	66.5%	7.00	50.48	57.48	1.2%	0.6%	7.9	2.0	1.1
5	57.7 Indoor Use	9,897	76.3%	74.1%	7.00	63.10	70.10	1.5%	0.8%	9.7	2.4	1.3
6	69.3	6,490	84.0%	79.2%	7.00	75.72	82.72	1.7%	0.9%	11.4	2.9	1.5
7	80.8 2% LQI	3,948	88.7%	82.6%	7.00	88.34	95.34	2.0%	1.0%	13.2	3.3	1.7
8	92.3	2,369	91.6%	85.0%	7.00	100.96	107.96	2.2%	1.2%	14.9	3.7	2.0
9	103.9	1,572	93.5%	86.8%	7.00	113.58	120.58	2.5%	1.3%	16.6	4.2	2.2
10	115.4	1,091	94.8%	88.2%	7.00	126.20	133.20	2.8%	1.5%	18.4	4.6	2.4
11	127.0	770	95.7%	89.4%	7.00	138.82	145.82	3.0%	1.6%	20.1	5.0	2.7
12	138.5	521	96.3%	90.3%	7.00	151.44	158.44	3.3%	1.7%	21.9	5.5	2.9
13	150.1	428	96.8%	91.1%	7.00	164.06	171.06	3.5%	1.9%	23.6	5.9	3.1
14	161.6 2% MHI	362	97.3%	91.7%	7.00	176.68	183.68	3.8%	2.0%	25.3	6.3	3.4
15	173.2	287	97.6%	92.3%	7.00	189.30	196.30	4.1%	2.2%	27.1	6.8	3.6
16	184.7	215	97.9%	92.8%	7.00	201.92	208.92	4.3%	2.3%	28.8	7.2	3.8
17	196.2	201	98.1%	93.3%	7.00	214.54	221.54	4.6%	2.4%	30.6	7.7	4.0
18	207.8	160	98.3%	93.7%	7.00	227.16	234.16	4.9%	2.6%	32.3	8.1	4.3
19	219.3	130	98.5%	94.1%	7.00	239.78	246.78	5.1%	2.7%	34.0	8.5	4.5
20	230.9	118	98.6%	94.4%	7.00	252.40	259.40	5.4%	2.8%	35.8	9.0	4.7
21	242.4	109	98.7%	94.7%	7.00	265.02	272.02	5.6%	3.0%	37.5	9.4	5.0
22	254.0	85	98.8%	95.0%	7.00	277.64	284.64	5.9%	3.1%	39.3	9.8	5.2
23	265.5	93	98.9%	95.2%	7.00	290.26	297.26	6.2%	3.3%	41.0	10.3	5.4
24	277.0	61	99.0%	95.5%	7.00	302.88	309.88	6.4%	3.4%	42.7	10.7	5.7
25	288.6	65	99.1%	95.7%	7.00	315.50	322.50	6.7%	3.5%	44.5	11.1	5.9
26	300.1	54	99.2%	95.9%	7.00	328.12	335.12	6.9%	3.7%	46.2	11.6	6.1
27	311.7	47	99.2%	96.0%	7.00	340.74	347.74	7.2%	3.8%	48.0	12.0	6.4
28	323.2	52	99.3%	96.2%	7.00	353.36	360.36	7.5%	4.0%	49.7	12.5	6.6
29	334.8	35	99.3%	96.4%	7.00	365.98	372.98	7.7%	4.1%	51.4	12.9	6.8
30	346.3	46	99.4%	96.5%	7.00	378.60	385.60	8.0%	4.2%	53.2	13.3	7.0
31	357.9	25	99.4%	96.7%	7.00	391.22	398.22	8.3%	4.4%	54.9	13.8	7.3
32	369.4	39	99.4%	96.8%	7.00	403.84	410.84	8.5%	4.5%	56.7	14.2	7.5
33	380.9	30	99.5%	96.9%	7.00	416.46	423.46	8.8%	4.6%	58.4	14.6	7.7
34	392.5	24	99.5%	97.0%	7.00	429.08	436.08	9.0%	4.8%	60.1	15.1	8.0
35	404.0	29	99.5%	97.1%	7.00	441.70	448.70	9.3%	4.9%	61.9	15.5	8.2
36	415.6	25	99.6%	97.2%	7.00	454.32	461.32	9.6%	5.1%	63.6	15.9	8.4
37	427.1	13	99.6%	97.3%	7.00	466.94	473.94	9.8%	5.2%	65.4	16.4	8.7
38	438.7	24	99.6%	97.4%	7.00	479.56	486.56	10.1%	5.3%	67.1	16.8	8.9
39	450.2	18	99.6%	97.5%	7.00	492.18	499.18	10.4%	5.5%	68.9	17.3	9.1
40	461.7	20	99.7%	97.6%	7.00	504.80	511.80	10.6%	5.6%	70.6	17.7	9.4
41	473.3	11	99.7%	97.6%	7.00	517.42	524.42	10.9%	5.8%	72.3	18.1	9.6
42	484.8	12	99.7%	97.7%	7.00	530.04	537.04	11.1%	5.9%	74.1	18.6	9.8
43	496.4	8	99.7%	97.8%	7.00	542.66	549.66	11.4%	6.0%	75.8	19.0	10.0
44	507.9	14	99.7%	97.8%	7.00	555.28	562.28	11.7%	6.2%	77.6	19.4	10.3
45	519.5	10	99.7%	97.9%	7.00	567.90	574.90	11.9%	6.3%	79.3	19.9	10.5
46	531.0	8	99.7%	97.9%	7.00	580.52	587.52	12.2%	6.4%	81.0	20.3	10.7
47	542.6	12	99.8%	98.0%	7.00	593.14	600.14	12.4%	6.6%	82.8	20.7	11.0
48	554.1	8	99.8%	98.1%	7.00	605.76	612.76	12.7%	6.7%	84.5	21.2	11.2
49	565.6	4	99.8%	98.1%	7.00	618.38	625.38	13.0%	6.9%	86.3	21.6	11.4
50	577.2	9	99.8%	98.2%	7.00	631.00	638.00	13.2%	7.0%	88.0	22.0	11.7

PCRWD 1	Water Use Data			Monthly Water Bill			Bill % of Income		Hours Worked		
	# of Bills	Cumulative % of Bills	Cumulative % of Usage	Fixed	Volume	Total	Lowest Quintile	MHI	Min. Wage	Lowest Quintile	MHI
Incomes							\$36,371	\$73,042	\$ 7.25	\$ 18.19	\$ 36.52
Volume g/p/d											
0	217	4.0%	0.0%	\$ 4.00	\$ -	\$ 4.00	0.1%	0.1%	0.6	0.2	0.1
1 12.6	69	5.3%	21.3%	4.00	5.42	9.42	0.3%	0.2%	1.3	0.5	0.3
2 25.1	1,522	33.6%	42.3%	4.00	10.84	14.84	0.5%	0.2%	2.0	0.8	0.4
3 37.7	1,088	53.9%	57.0%	4.00	16.26	20.26	0.7%	0.3%	2.8	1.1	0.6
4 50.2	119	56.1%	67.2%	4.00	21.68	25.68	0.8%	0.4%	3.5	1.4	0.7
5 62.8 Indoor Use	1,305	80.4%	76.9%	4.00	27.10	31.10	1.0%	0.5%	4.3	1.7	0.9
6 75.4	330	86.5%	81.3%	4.00	32.52	36.52	1.2%	0.6%	5.0	2.0	1.0
7 87.9	30	87.1%	84.3%	4.00	37.94	41.94	1.4%	0.7%	5.8	2.3	1.1
8 100.5	304	92.7%	87.1%	4.00	43.36	47.36	1.6%	0.8%	6.5	2.6	1.3
9 113.0	83	94.3%	88.7%	4.00	48.78	52.78	1.7%	0.9%	7.3	2.9	1.4
10 125.6 2% LQI	8	94.4%	90.0%	4.00	54.20	58.20	1.9%	1.0%	8.0	3.2	1.6
11 138.2	99	96.2%	91.3%	4.00	59.62	63.62	2.1%	1.0%	8.8	3.5	1.7
12 150.7	39	97.0%	92.1%	4.00	65.04	69.04	2.3%	1.1%	9.5	3.8	1.9
13 163.3	6	97.1%	92.8%	4.00	70.46	74.46	2.5%	1.2%	10.3	4.1	2.0
14 175.8	21	97.5%	93.4%	4.00	75.88	79.88	2.6%	1.3%	11.0	4.4	2.2
15 188.4	36	98.1%	94.0%	4.00	81.30	85.30	2.8%	1.4%	11.8	4.7	2.3
16 200.9	6	98.3%	94.4%	4.00	86.72	90.72	3.0%	1.5%	12.5	5.0	2.5
17 213.5	3	98.3%	94.8%	4.00	92.14	96.14	3.2%	1.6%	13.3	5.3	2.6
18 226.1	12	98.5%	95.2%	4.00	97.56	101.56	3.4%	1.7%	14.0	5.6	2.8
19 238.6	-	98.5%	95.5%	4.00	102.98	106.98	3.5%	1.8%	14.8	5.9	2.9
20 251.2	4	98.6%	95.8%	4.00	108.40	112.40	3.7%	1.8%	15.5	6.2	3.1
21 263.7	7	98.7%	96.1%	4.00	113.82	117.82	3.9%	1.9%	16.3	6.5	3.2
22 276.3 2% MHI	1	98.8%	96.4%	4.00	119.24	123.24	4.1%	2.0%	17.0	6.8	3.4
23 288.9	-	98.8%	96.7%	4.00	124.66	128.66	4.2%	2.1%	17.7	7.1	3.5
24 301.4	7	98.9%	96.9%	4.00	130.08	134.08	4.4%	2.2%	18.5	7.4	3.7
25 314.0	5	99.0%	97.2%	4.00	135.50	139.50	4.6%	2.3%	19.2	7.7	3.8
26 326.5	2	99.0%	97.4%	4.00	140.92	144.92	4.8%	2.4%	20.0	8.0	4.0
27 339.1	7	99.1%	97.6%	4.00	146.34	150.34	5.0%	2.5%	20.7	8.3	4.1
28 351.7	10	99.3%	97.8%	4.00	151.76	155.76	5.1%	2.6%	21.5	8.6	4.3
29 364.2	5	99.4%	98.0%	4.00	157.18	161.18	5.3%	2.6%	22.2	8.9	4.4
30 376.8	4	99.5%	98.1%	4.00	162.60	166.60	5.5%	2.7%	23.0	9.2	4.6
31 389.3	1	99.5%	98.2%	4.00	168.02	172.02	5.7%	2.8%	23.7	9.5	4.7
32 401.9	1	99.5%	98.3%	4.00	173.44	177.44	5.9%	2.9%	24.5	9.8	4.9
33 414.5	2	99.6%	98.4%	4.00	178.86	182.86	6.0%	3.0%	25.2	10.1	5.0
34 427.0	2	99.6%	98.5%	4.00	184.28	188.28	6.2%	3.1%	26.0	10.4	5.2
35 439.6	1	99.6%	98.6%	4.00	189.70	193.70	6.4%	3.2%	26.7	10.7	5.3
36 452.1	-	99.6%	98.7%	4.00	195.12	199.12	6.6%	3.3%	27.5	10.9	5.5
37 464.7	5	99.7%	98.8%	4.00	200.54	204.54	6.7%	3.4%	28.2	11.2	5.6
38 477.3	-	99.7%	98.8%	4.00	205.96	209.96	6.9%	3.4%	29.0	11.5	5.7
39 489.8	-	99.7%	98.9%	4.00	211.38	215.38	7.1%	3.5%	29.7	11.8	5.9
40 502.4	2	99.8%	99.0%	4.00	216.80	220.80	7.3%	3.6%	30.5	12.1	6.0
41 514.9	1	99.8%	99.0%	4.00	222.22	226.22	7.5%	3.7%	31.2	12.4	6.2
42 527.5	-	99.8%	99.1%	4.00	227.64	231.64	7.6%	3.8%	32.0	12.7	6.3
43 540.0	1	99.8%	99.1%	4.00	233.06	237.06	7.8%	3.9%	32.7	13.0	6.5
44 552.6	-	99.8%	99.2%	4.00	238.48	242.48	8.0%	4.0%	33.4	13.3	6.6
45 565.2	-	99.8%	99.2%	4.00	243.90	247.90	8.2%	4.1%	34.2	13.6	6.8
46 577.7	1	99.8%	99.2%	4.00	249.32	253.32	8.4%	4.2%	34.9	13.9	6.9
47 590.3	-	99.8%	99.3%	4.00	254.74	258.74	8.5%	4.3%	35.7	14.2	7.1
48 602.8	-	99.8%	99.3%	4.00	260.16	264.16	8.7%	4.3%	36.4	14.5	7.2
49 615.4	1	99.8%	99.4%	4.00	265.58	269.58	8.9%	4.4%	37.2	14.8	7.4
50 628.0	2	99.9%	99.4%	4.00	271.00	275.00	9.1%	4.5%	37.9	15.1	7.5

Runnells	Water Use Data			Monthly Water Bill			Bill % of Income		Hours Worked		
	# of Bills	Cumulative % of Bills	Cumulative % of Usage	Fixed	Volume	Total	Lowest Quintile	MHI	Min. Wage	Lowest Quintile	MHI

Incomes

\$ 40,167 \$ 88,095 \$ 7.25 \$ 20.08 \$ 44.05

Volume g/p/d

0	-	85	3.8%	0.0%	\$ 8.77	\$ -	\$ 8.77	0.3%	0.1%	1.2	0.4	0.2
1	12.5	223	13.8%	24.8%	8.77	9.35	18.12	0.5%	0.2%	2.5	0.9	0.4
2	25.0	353	29.7%	47.1%	8.77	18.70	27.47	0.8%	0.4%	3.8	1.4	0.6
3	37.5	496	52.0%	65.2%	8.77	28.05	36.82	1.1%	0.5%	5.1	1.8	0.8
4	50.0	454	72.4%	77.6%	8.77	37.40	46.17	1.4%	0.6%	6.4	2.3	1.0
5	62.5 Indoor Use	272	84.7%	84.7%	8.77	46.75	55.52	1.7%	0.8%	7.7	2.8	1.3
6	74.9 2% LQI	133	90.6%	88.7%	8.77	56.10	64.87	1.9%	0.9%	8.9	3.2	1.5
7	87.4	85	94.5%	91.1%	8.77	65.45	74.22	2.2%	1.0%	10.2	3.7	1.7
8	99.9	55	96.9%	92.5%	8.77	74.80	83.57	2.5%	1.1%	11.5	4.2	1.9
9	112.4	31	98.3%	93.3%	8.77	84.15	92.92	2.8%	1.3%	12.8	4.6	2.1
10	124.9	6	98.6%	93.7%	8.77	93.50	102.27	3.1%	1.4%	14.1	5.1	2.3
11	137.4	5	98.8%	94.1%	8.77	102.85	111.62	3.3%	1.5%	15.4	5.6	2.5
12	149.9	6	99.1%	94.4%	8.77	112.20	120.97	3.6%	1.6%	16.7	6.0	2.7
13	162.4	5	99.3%	94.6%	8.77	121.55	130.32	3.9%	1.8%	18.0	6.5	3.0
14	174.9	3	99.5%	94.8%	8.77	130.90	139.67	4.2%	1.9%	19.3	7.0	3.2
15	187.4 2% MHI	1	99.5%	95.0%	8.77	140.25	149.02	4.5%	2.0%	20.6	7.4	3.4
16	199.9	1	99.6%	95.1%	8.77	149.60	158.37	4.7%	2.2%	21.8	7.9	3.6
17	212.3	4	99.7%	95.2%	8.77	158.95	167.72	5.0%	2.3%	23.1	8.4	3.8
18	224.8	1	99.8%	95.3%	8.77	168.30	177.07	5.3%	2.4%	24.4	8.8	4.0
19	237.3	-	99.8%	95.3%	8.77	177.65	186.42	5.6%	2.5%	25.7	9.3	4.2
20	249.8	-	99.8%	95.4%	8.77	187.00	195.77	5.8%	2.7%	27.0	9.7	4.4
21	262.3	1	99.8%	95.4%	8.77	196.35	205.12	6.1%	2.8%	28.3	10.2	4.7
22	274.8	-	99.8%	95.5%	8.77	205.70	214.47	6.4%	2.9%	29.6	10.7	4.9
23	287.3	-	99.8%	95.5%	8.77	215.05	223.82	6.7%	3.0%	30.9	11.1	5.1
24	299.8	-	99.8%	95.6%	8.77	224.40	233.17	7.0%	3.2%	32.2	11.6	5.3
25	312.3	-	99.8%	95.6%	8.77	233.75	242.52	7.2%	3.3%	33.5	12.1	5.5
26	324.8	-	99.8%	95.7%	8.77	243.10	251.87	7.5%	3.4%	34.7	12.5	5.7
27	337.3	-	99.8%	95.7%	8.77	252.45	261.22	7.8%	3.6%	36.0	13.0	5.9
28	349.7	-	99.8%	95.8%	8.77	261.80	270.57	8.1%	3.7%	37.3	13.5	6.1
29	362.2	-	99.8%	95.8%	8.77	271.15	279.92	8.4%	3.8%	38.6	13.9	6.4
30	374.7	-	99.8%	95.9%	8.77	280.50	289.27	8.6%	3.9%	39.9	14.4	6.6
31	387.2	-	99.8%	95.9%	8.77	289.85	298.62	8.9%	4.1%	41.2	14.9	6.8
32	399.7	-	99.8%	95.9%	8.77	299.20	307.97	9.2%	4.2%	42.5	15.3	7.0
33	412.2	-	99.8%	96.0%	8.77	308.55	317.32	9.5%	4.3%	43.8	15.8	7.2
34	424.7	-	99.8%	96.0%	8.77	317.90	326.67	9.8%	4.4%	45.1	16.3	7.4
35	437.2	-	99.8%	96.1%	8.77	327.25	336.02	10.0%	4.6%	46.3	16.7	7.6
36	449.7	-	99.8%	96.1%	8.77	336.60	345.37	10.3%	4.7%	47.6	17.2	7.8
37	462.2	-	99.8%	96.2%	8.77	345.95	354.72	10.6%	4.8%	48.9	17.7	8.1
38	474.7	-	99.8%	96.2%	8.77	355.30	364.07	10.9%	5.0%	50.2	18.1	8.3
39	487.1	-	99.8%	96.3%	8.77	364.65	373.42	11.2%	5.1%	51.5	18.6	8.5
40	499.6	-	99.8%	96.3%	8.77	374.00	382.77	11.4%	5.2%	52.8	19.1	8.7
41	512.1	-	99.8%	96.4%	8.77	383.35	392.12	11.7%	5.3%	54.1	19.5	8.9
42	524.6	-	99.8%	96.4%	8.77	392.70	401.47	12.0%	5.5%	55.4	20.0	9.1
43	537.1	-	99.8%	96.5%	8.77	402.05	410.82	12.3%	5.6%	56.7	20.5	9.3
44	549.6	-	99.8%	96.5%	8.77	411.40	420.17	12.6%	5.7%	58.0	20.9	9.5
45	562.1	-	99.8%	96.6%	8.77	420.75	429.52	12.8%	5.9%	59.2	21.4	9.8
46	574.6	-	99.8%	96.6%	8.77	430.10	438.87	13.1%	6.0%	60.5	21.9	10.0
47	587.1	1	99.9%	96.6%	8.77	439.45	448.22	13.4%	6.1%	61.8	22.3	10.2
48	599.6	-	99.9%	96.7%	8.77	448.80	457.57	13.7%	6.2%	63.1	22.8	10.4
49	612.1	-	99.9%	96.7%	8.77	458.15	466.92	13.9%	6.4%	64.4	23.2	10.6
50	624.5	-	99.9%	96.7%	8.77	467.50	476.27	14.2%	6.5%	65.7	23.7	10.8

Windsor Heights	Water Use Data			Monthly Water Bill			Bill % of Income		Hours Worked		
	# of Bills	Cumulative % of Bills	Cumulative % of Usage	Fixed	Volume	Total	Lowest Quintile	MHI	Min. Wage	Lowest Quintile	MHI

Incomes \$32,430 \$79,073 \$ 7.25 \$ 16.22 \$ 39.54

Volume	g/p/d												
0	-		676	2.8%	0.0%	\$ 6.00	\$ -	\$ 6.00	0.2%	0.1%	0.8	0.4	0.2
1	13.7		2,176	12.0%	24.3%	6.00	5.75	11.75	0.4%	0.2%	1.6	0.7	0.3
2	27.4		4,499	31.0%	46.2%	6.00	11.50	17.50	0.6%	0.3%	2.4	1.1	0.4
3	41.0		4,912	51.7%	63.5%	6.00	17.25	23.25	0.9%	0.4%	3.2	1.4	0.6
4	54.7	Indoor Use	3,966	68.4%	75.5%	6.00	23.00	29.00	1.1%	0.4%	4.0	1.8	0.7
5	68.4		2,808	80.2%	83.4%	6.00	28.75	34.75	1.3%	0.5%	4.8	2.1	0.9
6	82.1		1,788	87.8%	88.4%	6.00	34.50	40.50	1.5%	0.6%	5.6	2.5	1.0
7	95.7		1,051	92.2%	91.4%	6.00	40.25	46.25	1.7%	0.7%	6.4	2.9	1.2
8	109.4	2% LQI	597	94.7%	93.4%	6.00	46.00	52.00	1.9%	0.8%	7.2	3.2	1.3
9	123.1		372	96.3%	94.7%	6.00	51.75	57.75	2.1%	0.9%	8.0	3.6	1.5
10	136.8		219	97.2%	95.6%	6.00	57.50	63.50	2.3%	1.0%	8.8	3.9	1.6
11	150.5		143	97.8%	96.3%	6.00	63.25	69.25	2.6%	1.1%	9.6	4.3	1.8
12	164.1		105	98.2%	96.9%	6.00	69.00	75.00	2.8%	1.1%	10.3	4.6	1.9
13	177.8		81	98.6%	97.3%	6.00	74.75	80.75	3.0%	1.2%	11.1	5.0	2.0
14	191.5		65	98.9%	97.7%	6.00	80.50	86.50	3.2%	1.3%	11.9	5.3	2.2
15	205.2		44	99.0%	98.0%	6.00	86.25	92.25	3.4%	1.4%	12.7	5.7	2.3
16	218.8		39	99.2%	98.2%	6.00	92.00	98.00	3.6%	1.5%	13.5	6.0	2.5
17	232.5		38	99.4%	98.4%	6.00	97.75	103.75	3.8%	1.6%	14.3	6.4	2.6
18	246.2		17	99.4%	98.6%	6.00	103.50	109.50	4.1%	1.7%	15.1	6.8	2.8
19	259.9		24	99.5%	98.7%	6.00	109.25	115.25	4.3%	1.7%	15.9	7.1	2.9
20	273.6		17	99.6%	98.8%	6.00	115.00	121.00	4.5%	1.8%	16.7	7.5	3.1
21	287.2		9	99.7%	98.9%	6.00	120.75	126.75	4.7%	1.9%	17.5	7.8	3.2
22	300.9	2% MHI	10	99.7%	99.0%	6.00	126.50	132.50	4.9%	2.0%	18.3	8.2	3.4
23	314.6		9	99.7%	99.1%	6.00	132.25	138.25	5.1%	2.1%	19.1	8.5	3.5
24	328.3		6	99.8%	99.1%	6.00	138.00	144.00	5.3%	2.2%	19.9	8.9	3.6
25	341.9		3	99.8%	99.2%	6.00	143.75	149.75	5.5%	2.3%	20.7	9.2	3.8
26	355.6		3	99.8%	99.2%	6.00	149.50	155.50	5.8%	2.4%	21.4	9.6	3.9
27	369.3		8	99.8%	99.3%	6.00	155.25	161.25	6.0%	2.4%	22.2	9.9	4.1
28	383.0		4	99.8%	99.3%	6.00	161.00	167.00	6.2%	2.5%	23.0	10.3	4.2
29	396.7		4	99.9%	99.4%	6.00	166.75	172.75	6.4%	2.6%	23.8	10.7	4.4
30	410.3		1	99.9%	99.4%	6.00	172.50	178.50	6.6%	2.7%	24.6	11.0	4.5
31	424.0		1	99.9%	99.5%	6.00	178.25	184.25	6.8%	2.8%	25.4	11.4	4.7
32	437.7		5	99.9%	99.5%	6.00	184.00	190.00	7.0%	2.9%	26.2	11.7	4.8
33	451.4		5	99.9%	99.5%	6.00	189.75	195.75	7.2%	3.0%	27.0	12.1	5.0
34	465.0		1	99.9%	99.5%	6.00	195.50	201.50	7.5%	3.1%	27.8	12.4	5.1
35	478.7		1	99.9%	99.6%	6.00	201.25	207.25	7.7%	3.1%	28.6	12.8	5.2
36	492.4		3	99.9%	99.6%	6.00	207.00	213.00	7.9%	3.2%	29.4	13.1	5.4
37	506.1		2	99.9%	99.6%	6.00	212.75	218.75	8.1%	3.3%	30.2	13.5	5.5
38	519.8		2	99.9%	99.6%	6.00	218.50	224.50	8.3%	3.4%	31.0	13.8	5.7
39	533.4		-	99.9%	99.6%	6.00	224.25	230.25	8.5%	3.5%	31.8	14.2	5.8
40	547.1		1	99.9%	99.7%	6.00	230.00	236.00	8.7%	3.6%	32.6	14.6	6.0
41	560.8		1	99.9%	99.7%	6.00	235.75	241.75	8.9%	3.7%	33.3	14.9	6.1
42	574.5		-	99.9%	99.7%	6.00	241.50	247.50	9.2%	3.8%	34.1	15.3	6.3
43	588.1		1	100.0%	99.7%	6.00	247.25	253.25	9.4%	3.8%	34.9	15.6	6.4
44	601.8		2	100.0%	99.7%	6.00	253.00	259.00	9.6%	3.9%	35.7	16.0	6.6
45	615.5		-	100.0%	99.7%	6.00	258.75	264.75	9.8%	4.0%	36.5	16.3	6.7
46	629.2		-	100.0%	99.7%	6.00	264.50	270.50	10.0%	4.1%	37.3	16.7	6.8
47	642.9		1	100.0%	99.7%	6.00	270.25	276.25	10.2%	4.2%	38.1	17.0	7.0
48	656.5		-	100.0%	99.7%	6.00	276.00	282.00	10.4%	4.3%	38.9	17.4	7.1
49	670.2		1	100.0%	99.8%	6.00	281.75	287.75	10.6%	4.4%	39.7	17.7	7.3
50	683.9		-	100.0%	99.8%	6.00	287.50	293.50	10.9%	4.5%	40.5	18.1	7.4

AGENDA ITEM FORM

SUBJECT: Public Hearing on Central Iowa Water Works (CIWW) Asset Transfers and Final Adoption of CIWW Asset Transfers and Agreements

SUMMARY:

- Discussions to form a regional production utility, Central Iowa Water Works (CIWW) have been occurring in earnest since 2017, when representatives from Des Moines Water Works, Urbandale Water Utility (UWU) and West Des Moines Water Works (WDMWW) launched a study into regional governance options. A national financial consultant specializing in utility management was retained. A group representing communities across the metro met in open meetings throughout 2018 and 2019, and representatives from DMWW, UWU, and WDMWW met through the pandemic in 2020 and 2021 to develop a framework for a cooperative agreement governing drinking water production in the DM metro.
- The Board approved a "Central Iowa Water Works Founding Resolution" in December 2021 stating the Board's desire to participate as a Founding Agency of CIWW, subject to acceptable terms in a 28E/28F and a "critical mass" of participation among potential members. Throughout 2022 and 2023, several drafts of a 28/28F Agreement have been distributed, revised, and edited based on comments received from all potential members.
- On November 22, 2023, the final Execution version of the CIWW 28E/28F was distributed to potential Members and published on DMWW's website at <https://bit.ly/CIWWExecution28E28F>.
- There has been an invitation for public comment on regional governance at each month's Board meeting since February 2022; many presentations throughout the community and media outreach have occurred; and DMWW has hosted four public informational meetings, with one being virtual (Zoom). Both the Des Moines City Council and Polk County Board of Supervisors have passed resolutions of support for the creation of CIWW.
- At the November board meeting, the Board approved a "Resolution Conditionally Authorizing the Inclusion of Board of Water Works Trustees of the City of Des Moines, Iowa as a Founding Agency of Central Iowa Water Works and Setting Public Hearing on Transfer of Assets." This resolution authorized the inclusion of the Board of Water Works Trustees as a Founding Agency of CIWW and set a public hearing on transfer of assets conditioned on 1) the formal approval by all other named parties in the CIWW Agreement, and 2) a public hearing on the proposed transfer of the DMWW Water Supply Facilities described in Exhibit A to the resolution, and the Board's final determination of this transfer subsequent to the public hearing.
- This action is the public hearing on the proposed transfer of assets, and the Board's final determination of this transfer of assets subsequent to the public hearing. Notice of the public hearing was published, as required by law, in the Des Moines Register on December 13, 2023.
- Participating in CIWW provides benefit to DMWW and our customers, including collaborative planning and management of water resources, equitable sharing of system costs and risks, and system resiliency.

FISCAL IMPACT:

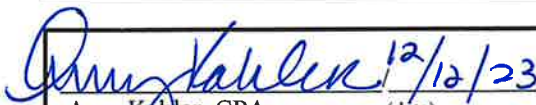
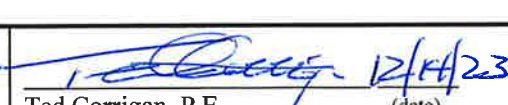
Financial analysis indicates regional governance of water production in the Des Moines metro area will result in the lowest total cost of drinking water production.

RECOMMENDED ACTION:

Pass the Resolution Conditionally Approving the Transfer of Interests in Real Property by DMWW to Central Iowa Water Works and Confirming Joinder by DMWW as a Founding Member of CIWW.

BOARD REQUIRED ACTION:

- Public Hearing – Opened by Chairperson for comments from the public regarding the proposed transfer of DMWW Water Supply Facilities described in Exhibit A.
- Chairperson closes the public hearing.
- Motion to pass the Resolution Conditionally Approving the Transfer of Interests in Real Property by DMWW to Central Iowa Water Works and Confirming Joinder by DMWW as a Founding Member of CIWW.

 Amy Kahler, CPA Chief Financial Officer	<div style="text-align: center;">  Ted Corrigan, P.E. CEO and General Manager </div>	<div style="text-align: center;"> 12/12/23 (date) </div> <div style="text-align: center;"> 12/14/23 (date) </div>
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Attachment: Resolution Conditionally Approving the Transfer of Interests in Real Property by DMWW to Central Iowa Water Works and Confirming Joinder by DMWW as a Founding Member of CIWW; Nov 17, 2023 DRAFT CIWW-DMWW Operating Agreement

RESOLUTION CONDITIONALLY APPROVING THE TRANSFER OF INTERESTS IN REAL PROPERTY BY DMWW TO CENTRAL IOWA WATER WORKS AND CONFIRMING JOINDER BY DMWW AS A FOUNDING MEMBER OF CIWW.

WHEREAS, the Board of Water Works Trustees of the City of Des Moines, Iowa ("DMWW") has a duty to provide the quantity and quality of water needed by its customers within and without the City of Des Moines;

WHEREAS, historically the Des Moines metropolitan regional area (the "Region") has successfully joined together to provide water services to citizens and customers through shared facilities under various agreements;

WHEREAS, the concept of regional governance and ownership of water supply facilities has been studied for many years among the water utilities serving communities in the Region to analyze and recommend a way to provide the needed quality and quantity of water to citizens and customers in the Region both now and in the future;

WHEREAS, the Board of DMWW considers it desirable to establish a shared regional system of drinking water supply production facilities under regional ownership and governance to meet all of its existing and future needs for safe, reliable, abundant, and reasonably priced drinking water to be distributed to its customers;

WHEREAS, certain water utilities, rural water districts and governmental entities have developed an agreement for the organization of a new regional water authority as a separate public entity created under Chapter 28E and Chapter 28F, Iowa Code, to be known as the "Central Iowa Water Works" ("CIWW") to act as a regional water wholesale production and supply entity under the material terms and conditions as set forth in the form of the Central Iowa Water Works 28E/28F Agreement dated November 28, 2023 (the "CIWW Agreement") that has been previously approved and adopted by the Board of DMWW;

WHEREAS, the conditions of membership of DMWW in CIWW, include the transfer of certain water production and supply assets to CIWW in accordance with, and pursuant to, the terms of the CIWW Agreement (a list of the proposed assets to be transferred to CIWW is attached hereto as Exhibit A) (the "DMWW Water Supply Facilities");

WHEREAS, a form of Operating Contract for the operation of the DMWW Water Supply Facilities between DMWW and CIWW has been established to be adopted by CIWW and DMWW (the "CIWW-DMWW Operating Contract") that has been previously approved and adopted by the Board of DMWW;

WHEREAS, in compliance with Iowa Code 364.7, the Board has set forth its proposal to dispose of interests in the DMWW Water Supply Facilities as provided in the CIWW Agreement by publication of notice of a public hearing; and

WHEREAS, pursuant to said notice published as required by law, this Board has held a public meeting and hearing upon the proposal to transfer the DMWW Water Supply Facilities and, accordingly the following action is now considered to be in the best interests of DMWW and the customers thereof.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Water Works Trustees of the City of Des Moines, Iowa hereby makes a final determination that the transfer of the DMWW Water Supply Facilities is in the best interests of DMWW and its customers;

BE IT FURTHER RESOLVED, that the transfer of the DMWW Water Supply Facilities to Central Iowa Water Works in accordance with the CIWW Agreement is hereby approved, conditioned on the final approval and the due execution and delivery of the CIWW Agreement by all other Founding Members of the CIWW as named in the CIWW Agreement and the filing thereof with the Iowa Secretary of State, and the execution by CIWW and DMWW of the CIWW-DMWW Operating Contract;

BE IT FURTHER RESOLVED, that the prior approval and authorization of the CIWW Agreement and the related CIWW-DMWW Operating Contract are hereby confirmed and ratified in all respects and particulars; and

BE IT FURTHER RESOLVED, that upon and after the due and full execution of the CIWW Agreement by all of the Founding Members named therein and the filing thereof with the Iowa Secretary of State, and the execution by CIWW and DMWW of the CIWW-DMWW Operating Contract; the Board Chair and the CEO and General Manager of DMWW be and are hereby authorized, empowered and directed to execute, attest, and deliver the transfer documents required for the transfer of the DMWW Water Supply Facilities to CIWW in accordance with the CIWW Agreement for and on behalf of the DMWW, and that the Board Chair and the CEO and General Manager are hereby authorized, empowered and directed to do all such acts and things and to execute all such documents as may be necessary to carry out and comply with these Resolutions.

EXHIBIT A: Summary of Assets to Be Transferred

MTR	Wholesale Meters
SOS	Infiltration Gallery
SOS	Raccoon River Intake
SOS	Des Moines River Intake
SOS	Des Moines River Pump Station
SOS	Saylorville Lake Storage Rights
SOS	McMullen Water Treatment Plant Shallow Alluvial Wells

SOS	Maffitt Reservoir and Grounds
SOS	Crystal Lake
SOS	Purple Martin Lake Water Resource Area
SOS	Hallett Lake
SOS	Saylorville Water Treatment Plant Radial Collector Wells
STO	Army Post Road ASR Well
STO	LP Moon ASR Well
STO	McMullen ASR Well
STO	Tenny Standpipe
BPS	LP Moon Pumping Station and Ground Storage Reservoir
BPS	Polk County Pumping Station and Ground Storage Reservoir
BPS	Joint Maffitt Lake Booster Station
BPS	NW 26 th St. Booster Station
TMT	Fleur Drive Water Treatment Plant
TMT	Laboratory
TMT	McMullen Water Treatment Plant
TMT	Saylorville Water Treatment Plant
TRN	Core Network Transmission and Raw Water Mains

*MTR = Meters; BPS = Booster/Pumping Station; SOS = Sources of Supply; STO = Storage; TMT = Treatment Facilities; TRN= Transmission Network
Further detail is provided in the Notes to Schedule IV-7 to the CIWW Agreement, which is available for review at <https://bit.ly/CIWWExecution28E28F> and a copy of which is on file at the offices of DMWW located at 2201 George Flagg Pkwy, Des Moines, Iowa 50321.

CERTIFICATE

I, the undersigned, Secretary to the Board of Trustees of the City of Des Moines, Iowa ("DMWW") do hereby certify that the attached and foregoing is a true and complete copy of a portion of the records of the DMWW showing proceedings of the Board, and the same is a true and complete copy of an action taken by the Board at a duly called and conducted meeting of the Board on December 19, 2023 after a public hearing and with a quorum present with respect to the matter set forth above, which resolutions remain in full force and effect, and have not been amended or rescinded in any way; that meeting and all proceeding therein were duly and publicly held in accordance with applicable law.

Dated this ____ day of _____ 2023.

Secretary to the Board of Water Works
Trustees of the City of Des Moines, Iowa

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WATER SUPPLY FACILITY OPERATING CONTRACT

Between

CENTRAL IOWA WATER WORKS (“CIWW”)

And

BOARD OF WATER WORKS TRUSTEES OF THE CITY OF DES MOINES, IOWA (“DMWW”)

For Operation, Maintenance and Management of
Drinking Water Source, Treatment and Transmission System Facilities

EFFECTIVE AS OF THE CIWW OPERATIONAL COMMENCEMENT DATE

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THIS CONTRACT is made and entered into as of the ____ day of _____, 2024 by and between Central Iowa Water Works ("CIWW"), a joint and cooperative legal entity organized and existing under Iowa Code Chapters 28E and 28F, and the Board of Water Works Trustees of the City of Des Moines, Iowa Works ("DMWW"), a municipal utility organized and existing under Iowa Code Chapter 388 (hereinafter sometimes jointly referred to as "the Parties" or either referred to individually as a "Party").

WHEREAS CIWW is a regional water wholesale production and supply entity created and governed by the Central Iowa Water Works 28E/28F Agreement executed by and among its Founding Agencies and filed with the Iowa Secretary of State as Agreement No _____ ("the CIWW 28E-28F Agreement");

WHEREAS, CIWW has the right and duty to create and supply treated water to its Member Agencies, and for this purpose CIWW will acquire the water supply facilities of DMWW and other Water Producing Member Agencies of CIWW as of the Operational Commencement Date of CIWW;

WHEREAS DMWW is a Water Producing Member of CIWW and the current owner and operator of certain Designated Water Supply Facilities as defined in the CIWW 28E-28F Agreement (the "DMWW Designated Water Supply Facilities");

WHEREAS, CIWW and DMWW desire to implement the water facility operation provisions contemplated by the CIWW 28E-28F Agreement during the Term of this Contract by providing that DMWW shall be engaged as the contract operator of the DMWW Designated Water Supply Facilities acquired by CIWW for twenty years from the Operational Commencement Date of CIWW on the terms provided in this Contract.

NOW, THEREFORE, in consideration of the mutual promises and covenants of each Party to the other as provided in this Contract, and other good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, CIWW and DMWW hereby agree as follows:

ARTICLE I. SCOPE AND TERM OF CONTRACT

Section 1. Scope. This Contract shall govern the relationship between CIWW and DMWW under the CIWW 28E-28F Agreement with respect to the operation and maintenance of the DMWW Designated Water Supply Facilities by DMWW as contract operator from the Effective Date and during the Term of this Contract. As used in this Contract, except as the context may otherwise require, the DMWW Designated Water Supply Facilities shall include all modifications, improvements, updates and expansion thereto during the Term of this Contract.

This Contract shall not govern the purchase of water from CIWW by DMWW and shall not govern any provision for administrative support by DMWW to CIWW or other services provided by and between the Parties. The Parties may enter into other separate Contracts respecting such matters.

Section 2. Effective Date. The "Effective Date" of this Contract shall be the Operational Commencement Date as defined in the CIWW 28E-28F Agreement.

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Section 3. Term. The term of this Contract, subject to the termination provisions herein, shall be twenty years from its Effective Date (the “Term”). Provided, however, such term shall automatically be extended for successive five year periods thereafter unless either party shall, not less than three years prior to the expiration of the first twenty year period hereunder or any subsequent renewal period, give notice in writing to the other party of its intention to terminate such Term. Nothing shall prevent DMWW and CIWW from agreeing to an earlier termination or to an extension of the Term by further agreement in writing.

Section 4. Supplement to CIWW 28E-28F Agreement. This Contract shall be a supplement to the CIWW 28E-28F Agreement and shall be filed as such with the Iowa Secretary of State after its execution by the Parties. This Contract shall govern certain matters between the Parties hereto under the CIWW 28E-28F Agreement. Except as otherwise defined in this Contract, the capitalized terms used herein that are defined in the CIWW 28E-28F Agreement shall have the meanings as defined in the CIWW 28E-28F Agreement. As used herein, the term CIWW 28E-28F Agreement shall not be construed to mean or include any subsequently adopted amendment to such Contract, except to the extent DMWW shall expressly agree in writing to accept any such amendment as applying to this Contract. In the event of a conflict between this Contract and the CIWW 28E-28F Agreement, the terms of this Contract shall control.

ARTICLE II. THE RELATIONSHIP BETWEEN CIWW AND DMWW

Section 1. Nature of Relationship. DMWW shall be, and hereby is, engaged by CIWW as the sole operator of the DMWW Designated Water Supply Facilities acquired by CIWW. In such capacity, DMWW shall provide all labor, services, materials, and supplies necessary to CIWW’s production and delivery of finished drinking water under this Contract, including all operations, maintenance, repairs, planning, engineering (whether staffed or contracted), capital improvements, residuals removal, and procurements required to effectively operate, maintain, and manage the DMWW Designated Water Supply Facilities to their full capacity under prevailing conditions as they exist from time to time, including capital and technical upgrades as needed. DMWW shall supply labor and services through its own staff or under contract with others, in its discretion.

Section 2. Operation Obligations. DMWW’s obligations under this Contract shall be to operate and maintain the DMWW Designated Water Supply Facilities on behalf of CIWW with a level of care, effort, and diligence as may be reasonably expected to enable CIWW to meet the service obligations of CIWW to its Member Agencies as set forth in Schedule IV-6 of the CIWW 28E-28F Agreement, to the extent possible in view of the actual capacities and limitations of the DMWW Designated Water Supply Facilities under prevailing source water and other conditions. DMWW operations shall be deemed reasonable to the extent consistent with its existing practices and procedures as of the Effective Date with any changes required by changes in prevailing conditions, law or regulation.

Section 3. Independent Contractor. The relationship of DMWW to CIWW under this Contract shall at all times be that of independent contractor. Services under this Contract shall be performed in accordance with good and accepted industry practices for operators similarly situated. However, any such services shall not be considered engineering services, and nothing herein is intended to imply that DMWW is to supply professional engineering services to CIWW, unless specifically stated in this Contract or specifically hereafter agreed by the Parties to the contrary. This provision shall not, however, preclude DMWW from

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providing any services under this Contract by means of professional engineers employed by WMDWW on its staff.

Section 4. Individual Ownership and Responsibility. Except as otherwise explicitly provided in this Contract, each Party shall at all times hold and own its respective properties. Each Party shall be solely authorized to supervise, direct, and manage its own activities and the activities of its respective employees and agents. Each Party shall retain sole responsibility and liability for its own acts and omissions hereunder and for the acts and omissions of its respective employees and agents hereunder. Nothing in this Contract shall be deemed to supersede, replace, impair or limit any collective bargaining agreement between DMWW and any bargaining unit now existing or hereafter arising.

ARTICLE III. OPERATIONAL PROVISIONS

Section 1. DMWW General Authority. DMWW shall at all times during the Term of this Contract have the power and authority to operate and maintain the DMWW Designated Water Supply Facilities to meet applicable provisions of law.

Section 2. Permits and Regulatory Compliance. DMWW shall have and maintain all licenses and permits, including but not limited to Water Use and Water Supply Operations permits, which are required to be obtained by it from State or Federal regulatory agencies for ongoing operation of the DMWW Designated Water Supply Facilities. Unless otherwise required by law or the CIWW 28E-28F Agreement, all such permits shall be obtained and held in the name of DMWW. DMWW shall be responsible for regulatory compliance as outlined in these permits. CIWW shall have and maintain such licenses and permits, if any, to the extent required by applicable law or the CIWW 28E-28F Agreement to allow the Parties to perform their respective obligations under this Contract.

Section 3. Sampling and Laboratory Testing. DMWW will provide, through staff or contract, sampling and laboratory testing necessary to monitor water treatment plant performance in addition to sampling and laboratory testing required to meet regulatory requirements set forth in water supply operations permits, NPDES permits, and/or any federal, state or local laws, rules and regulations, local ordinances, permit or license requirements.

Section 4. Periodic Reporting. DMWW shall prepare and make such periodic reports for the DMWW Designated Water Supply Facilities as are required by applicable laws, rules, regulations or orders, and shall submit them directly to the appropriate regulatory agencies with copies to the CIWW Executive Director as submitted. DMWW shall assist CIWW in meeting any regulatory reporting requirements that it has as to CIWW facilities operated by DMWW.

Section 5. Other Information. DMWW shall make available to CIWW all such reasonably accessible information, schedules, and analysis concerning the DMWW Designated Water Supply Facilities and their operation as CIWW may request.

Section 6. Operation in Accordance with Budgets. DMWW shall operate, maintain, and manage the DMWW Designated Water Supply Facilities in accordance with the budget established as provided in Section 3 of Article VI of this Contract to the extent possible, subject to such unforeseen changes and contingencies as may arise in the ordinary course of business, and subject to emergencies or other circumstances that require deviation from the budgets.

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Section 7. DMWW's Authority to Act in an Emergency. In any emergency affecting the safety of persons, property or water quality, DMWW shall act, at its discretion, and without prior CIWW authorization, but with reasonable notification under the circumstances to the CIWW Executive Director, to prevent threatened damage, injury or loss notwithstanding any provision in this Contract or any previously approved budget and CIWW shall have financial responsibility to reimburse DMWW for the full costs thereof.

Section 8. Ownership of Distribution Facilities. Each CIWW Member Agency, including DMWW, shall exclusively own, operate, maintain, and be responsible, for its own Water Distribution Facilities, including its own Connection Facilities as defined in Section 10 of this Article III.

Section 9. Connection Points. The "Connection Points" at which water is delivered by CIWW to CIWW Member Agencies. Including DMWW, shall be as follows:

- (a) In the case of water sold by CIWW to a specific CIWW Member Agency with a metered point of connection, the Connection Point shall be the point of delivery to the tee or main tap connected to the meter.
- (b) In the case of water produced by the DMWW Designated Water Supply Facilities and sold by CIWW to DMWW for delivery to any retail or wholesale customer of DMWW for which there is no metered point of connection, the Connection Points shall be the points at which the DMWW Water Distribution Facilities connect to the Water Supply Facilities owned by, or dedicated to, CIWW under the CIWW 28E-28F Agreement.

Section 10. Connection Facilities. As used herein "Connection Facilities" shall mean any taps, pipes, corporations, pumps, or other facilities required by any CIWW Member Agency to connect to, or receive water from the DMWW Designated Water Supply Facilities or to meter the water delivered to such Member Agency. DMWW shall have no obligation to supply or maintain the Connection Facilities, including any metering facilities of any other Member Agency. All new wholesale metering facilities that are part of any Connection Facilities shall be constructed and installed in accordance with drawing, plans and specification approved by CIWW, DMWW and affected Member Agency. Any new Connection Facilities established after the Effective Date shall include such device or devices as may be reasonably required to prevent reverse flow.

Section 11. Dual Use Facilities. The Parties recognize that some facilities and equipment, including certain valves and control systems that may be owned by either CIWW and DMWW after Asset Transfer under the CIWW 28E-28F Agreement will be used or usable for both Water Supply Activity on behalf of CIWW and for the Water Distribution Activity of DMWW("Dual Use Facilities"). DMWW is authorized to utilize all Dual Use Facilities for both purposes. The costs of operation, maintenance, repair and replacement of Dual Use Facilities shall be reasonably allocated between CIWW and DMWW based on benefit to each of such use by application of such allocation methods as the Parties may agree upon from time to time. Any dispute as to such allocation shall be resolved under the dispute resolution provisions of the CIWW 28E-28F Agreement.

Section 12. Supply Coordination. CIWW shall assist DMWW and other Water Producing Member Agencies in planning to meet the requirements of all CIWW Member Agencies and shall cause each

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CIWW Member Agency taking water from the DMWW Designated Water Supply Facilities to keep DMWW advised of its requirements and changing requirements. CIWW shall establish a staff-level working group consisting of a single authorized representative from each of the Member Agencies, each to individually serve as an ongoing contact point and coordinator with DMWW to facilitate and optimize water supply operations by DMWW. Such working group shall meet collectively when needed on call from DMWW to coordinate and plan for DMWW operations.

ARTICLE IV. WARRANTIES, EXCLUSION OF WARRANTIES AND DISCLAIMERS

Section 1. Warranty and Exclusion of Implied Warranties. DMWW warrants that its operation of the DMWW Designated Water Supply Facilities shall be reasonable under prevailing source water and other conditions. **DMWW MAKES NO OTHER WARRANTY OF ANY PARTICULAR RESULTS OR OUTCOME FROM ITS OPERATION OF THE DMWW DESIGNATED WATER SUPPLY FACILITIES.**

Section 2. Disclaimers. CIWW agrees that the DMWW Designated Water Supply Facilities of DMWW are special purpose facilities and the performance of such facilities are affected by external conditions over which DMWW has no control. DMWW neither warrants nor guarantees that its facilities existing as of the date of this Contract or that its operation of such facilities will function efficiently or accomplish any specific results under this Contract. CIWW acknowledges that no representations or warranties have been provided to CIWW regarding the DMWW Designated Water Supply Facilities or the ability of DMWW to deliver any particular results in the operation of such facilities. DMWW agrees to cooperate in good faith with CIWW and its Member Agencies to exercise diligence in performing its obligations hereunder, and to use its best efforts to carry out the provisions of this Contract but makes no guarantee of any particular results.

Section 3. Quality and Quantity. DMWW shall use reasonable diligence and efforts to produce finished drinking water and to operate, maintain and manage the DMWW Designated Water Supply Facilities to produce finished drinking water which is (i) in compliance with applicable State and Federal drinking water quality regulations; (ii) in compliance with all applicable water supply operation permits; (iii) delivered in adequate quantity and at adequate pressure to meet the needs of CIWW to supply the customers of CIWW. **DMWW MAKES NO REPRESENTATION OR WARRANTY THAT SUCH OBJECTIVES WILL ALWAYS BE MET UNDER THIS CONTRACT.**

Section 4. Shortages of Water. It is understood that this Contract does not constitute any warranty or assurance by DMWW that water in the quantity required by CIWW and CIWW Member Agencies will always be available or that water quality requirements will always be able to be met.

Section 5. Variation in Quantity and Quality. All Parties acknowledge and agree that there may be fluctuations in the quantity and quality of finished drinking water produced or delivered under this Contract as a result of prevailing source water, operating conditions, and other conditions and that such variations are acceptable under this Contract.

ARTICLE V. CAPITAL PROJECTS

Section 1. Non-expansion Capital Projects. During the Term of this Contract, DMWW shall plan and execute such non-expansion capital projects as DMWW shall deem necessary and proper to enable DMWW to meet its obligations under this Contract. Planning for such projects shall be coordinated with

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the CIWW Technical Committee. Such projects may be designed by staff of DMWW or by consultants selected and engaged by DMWW, or both. Execution of such projects shall be under the sole supervision of DMWW, but shall subject to the review and approval of the CIWW Board as part of the CIWW Budget process, except for projects executed under DMWW's emergency authority provided by Section 7 of Article III. CIWW shall be responsible to pay for the costs of such projects as provided under the CIWW 28E-28F Agreement.

Section 2. Expansion of Capacity. Under the CIWW 28E-28F Agreement CIWW is responsible for planning, engineering, financing, and construction of all new drinking water source, treatment and transmission system facilities needed to expand the capacity of CIWW to meet the requirements of its customers. Such new facilities are referred to herein as "Expansion Facilities", and may include, in CIWW's discretion, facilities constructed or installed to increase the capacity of the DMWW Designated Water Supply Facilities. DMWW shall cooperate and assist CIWW in planning for and constructing any Expansion Facilities that affect the DMWW Designated Water Supply Facilities.

Section 3. Capital Improvement Program. DMWW shall, in coordination with the CIWW Technical Committee, provide data and recommendations to the engineering consultant selected by CIWW, to aid the engineering consultant in developing a multi-year Capital Improvements Program ("CIP") for the DMWW Designated Water Supply Facilities, based on performance and needs assessments as provided in Section 4 of this Article V. CIWW shall provide the capital required for such projects, and DMWW shall cooperate with CIWW in the execution of projects under the CIP for the DMWW Acquired Facilities with DMWW reimbursed by CIWW for the costs incurred for its efforts.

Section 4. Continuous Performance Monitoring and Needs Assessment. DMWW shall, in consultation with the CIWW Technical Committee, the engineering consultant selected by CIWW, and CIWW staff:

- (a) Continuously monitor and assess the DMWW Designated Water Supply Facilities to determine if they are performing optimally;
- (b) Identify and implement operational strategies to optimize the performance of the DMWW Designated Water Supply Facilities;
- (c) Identify facility improvements needed to optimize performance of the DMWW Designated Water Supply Facilities and to keep them in compliance with evolving regulatory requirements, source water quality threats, and evolving technical and operational best practices for facilities of such kind;
- (d) Continuously monitor and assess the use of the DMWW Designated Water Supply Facilities by CIWW Member Agencies to determine if their needs are being optimally met

ARTICLE VI. COMPENSATION TO DMWW

Section 1. Compensation. DMWW shall be compensated in amounts equal to the actual full cost incurred by DMWW of providing materials and services under this Contract, plus 2%, with such amounts to be computed and paid as provided in the CIWW 28E-28F Agreement and Section 2 of this Article VI.

Section 2. CIWW Payment to DMWW. CIWW shall pay DMWW for operation, materials, supplies, and services supplied under this Contract on a cost plus basis, based on the cost and payment principles set forth in Schedule V-2 to the CIWW 28E-28F Agreement. Such amounts shall be paid in seasonally

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adjusted monthly installments with an Annual true-up as set forth in such Schedule. For the avoidance of doubt, it is the intent of this Contract that DMWW be paid its full actual costs, plus a fixed percentage of 2%, after such costs are fully incurred and determined.

Section 3. Operation, Maintenance, and Management (“OM&M”) Budget. For each calendar year beginning on or after the Operational Commencement Date, DMWW shall prepare and submit to CIWW a proposed OM&M budget for the next calendar year on such time schedule as may be required to permit the annual budget process of CIWW to proceed pursuant to the terms of the CIWW 28E-28F Agreement.

The proposed OM&M budget shall govern DMWW’s expenditures for the budget year and shall include:

- (a) A projection of the anticipated reimbursable expenditures that will be incurred by DMWW for production of water in the budget year;
- (b) A comparison of budgeted expenditures for the budget year to the actual expenditures for the prior budget year;
- (c) The insurance and risk management coverages to be in place for the budget year and the expected costs thereof that are chargeable to CIWW; and
- (d) Any additional information requested by the CIWW in advance of DMWW’s budget process commencement.

The Board of CIWW shall conduct a budget hearing on the proposed OM&M budget at its next regular meeting following receipt of the proposed budget. If the proposed budget is not approved by the CIWW Board, CIWW shall provide a detailed statement to DMWW of its objections. Any CIWW objections will be resolved by negotiation between the Parties if possible, but if no approved budget is reached, then DMWW shall operate under its proposed budget, subject to the right of CIWW to challenge any expenditure to which objection is made by claim in arbitration commenced not later than 180 days after the budget was first submitted to CIWW.

Section 4. Information and Input to be Provided by DMWW. Upon the request of CIWW or any CIWW Member Agency, DMWW shall make available such reasonably accessible information, schedules, comparisons and analysis as may be deemed reasonably necessary in order to fully analyze the proposed OM&M budget. DMWW shall cause such members of its staff to be present at the budget hearing established by CIWW as are necessary to explain the proposed budget and respond to inquiries made concerning same.

Article VII. OBLIGATIONS OF CIWW

Section 1. Financial Obligations. CIWW shall promptly satisfy all of its financial obligations to DMWW hereunder, including without limitation, funding under Article V for capital projects. Any loss, damage, or injury resulting from the failure of CIWW to provide funding for capital projects, when reasonably requested by DMWW, shall be the sole responsibility of CIWW.

Section 2. CIWW Rates and Charges. CIWW shall at all times set, impose, and collect rates and charges to its Member Agencies that produce revenues at least sufficient to pay the expenses of operation of

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CIWW, including obligations to DMWW, and all other obligations including principal and interest of bonds and other debt obligations as they become due.

Section 3. Taxes. CIWW shall pay all sales, excise, ad valorem, property, or other taxes, if any, associated with sales or operations under this Contract or assessed against CIWW property.

Section 4. Cooperation and Support. CIWW shall reasonably cooperate in good faith with DMWW in the performance of its obligations under this Contract, and shall all times govern and manage its affairs consistent with the terms of the CIWW 28E-28F Agreement so as to enable and support DMWW's ability to fully perform its obligations under this Contract.

ARTICLE VIII. TERMINATION PROVISIONS

Section 1 Automatic Termination. This Contract shall automatically terminate upon the termination of existence of CIWW for any reason. Such termination shall be effective upon reversion of assets including any dual purpose assets to DMWW as provided in the CIWW 28E-28F Agreement, with the intent that there shall be no interruption of water production upon termination of the existence of CIWW.

Section 2 Termination for Default. In the event that either Party determines that the other Party has defaulted in the performance of its obligations hereunder, the aggrieved Party may declare that default has occurred and give notice thereof to the defaulting Party. Notice of default shall be given in writing, shall specify the nature of the default and the provisions of the Contract involved, and shall specify what action is required of the defaulting Party to correct the default.

The defaulting Party shall have 180 days from the date of its receipt of the notice of default to correct the default. If at the end of said 180-day period the default has not, in the opinion of the aggrieved Party, been corrected, and if such default shall constitute a material breach of this Contract, the aggrieved Party may thereupon terminate the Contract for material breach by giving 60 days written notice of termination. Termination of this Contract shall be effective at the end of said 60-day period unless judicial proceedings are initiated by either Party in a court of competent jurisdiction to determine if a material breach has occurred.

Upon termination of this Contract by the either Party, or upon entry of a court order terminating this Contract, DMWW shall assist CIWW in assuming operation of the DMWW Designated Supply Facilities. CIWW shall pay DMWW the costs of such assistance within thirty (30) days of its receipt of an invoice for such costs.

Any disputes arising under this Section shall not be subject to mandatory arbitration.

ARTICLE IX. LIABILITY, INDEMNITY, INSURANCE, AUDIT, AND GENERAL TERMS

Section 1. No Liability. DMWW shall not be liable to CIWW, to any Member Agency or to any of their customers by reason of any interruption or failure to provide any water supplied or for services contemplated by this Contract, or for any error of judgment by DMWW or its staff, except for any bad faith, willful misconduct, or willful disregard for the terms of this Contract.

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Section 2. Non-Liability for Main Breaks. DMWW shall have no liability to any person for direct or indirect damage caused by water main breaks of CIWW or any other party. CIWW shall indemnify DMWW from any such claimed liabilities, and hold DMWW harmless from all such claims, including all attorney fees and other costs of defense.

Section 3. Limitations of Liability. NO PARTY SHALL BE LIABLE TO ANY OTHER PARTY UNDER THIS CONTRACT FOR ANY CLAIM FOR CONSEQUENTIAL, INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE, OR EXEMPLARY DAMAGES, INCLUDING WITHOUT LIMITATION LOSS OF PROFITS OR REVENUE OR THE LOSS OF USE OF EITHER, OR COSTS OF REPLACEMENT CAPITAL, EXCEPT AS EXPRESSLY PROVIDED IN THIS CONTRACT.

Section 4. Indemnification. DMWW and CIWW to the fullest extent permitted by law, each hereby agrees to indemnify, defend, pay on behalf of, and hold harmless the other and their respective elected officials, appointed officials, agents, employees and volunteers, and others working on behalf of such party ("Indemnities"), against any and all claims, demands, suits, damages or losses, together with any and all outlay and expense connected therewith including, but not limited to, attorneys' fees and court costs, that may be asserted or claimed against, recovered from or suffered by the Indemnities by reason of any injury or loss arising out of any wrongful act or omission of the Indemnifying Party, including, but not limited to, bodily injury or death, property damage, including loss of use thereof, and economic damages that arise out of or are in any way connected to this Contract. No party shall have any right of indemnity for damages or claims proximately caused by its own negligent or intentionally wrongful acts. Each party's Contracts and obligations as set forth in this Section are applicable for the duration of and following expiration or termination of this Contract, regardless of the manner of termination, and notwithstanding other provisions of this Contract.

Section 5. Insurance. The Parties shall each separately, or jointly, establish and maintain insurance and risk management programs with respect its own properties and liabilities within the scope of this Contract. Each Party waives subrogation against the other Party with respect to losses covered by such Party's insurance. DMWW shall adopt insurance and risk management programs to cover risks arising under this Contract that meet or exceed minimum insurance coverage requirements established by the Board of CIWW from time to time, and that are otherwise consistent with: (i) the insurance and risk management programs pertaining to DMWW's other properties and operations; and (ii) the approved annual OM&M Budget hereunder. The respective assets of DMWW and CIWW shall be insured as their interests may appear and except as they may otherwise agree, DMWW and CIWW shall each name the other, and their respective officers, officials, employees, and volunteers, as an additional insured under their respective policies of insurance with respect to their respective insurable risks arising under this Agreement.

Section 6. Audit. CIWW may by notice in writing request access to DMWW's records for purposes of conducting an independent audit of DMWW's financial records relation to compensation or other amounts paid or payable by CIWW to DMWW. Such notice shall identify the records sought for audit, and DMWW shall provide access to the records sought for audit within 30 days after receipt of the notice requesting audit. Such audit shall be conducted by a certified public accounting firm retained by CIWW and it CIWW's sole cost. The audit findings shall be promptly provided to DMWW. In the event that such audit reveals that any overpayment or under payment to DMWW, the Parties shall make such

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adjustments to balances paid or payable between them as the audit determines are proper, with such adjustments to be made within 30 days of the issuance of the audit report. In the event that either Party disputes the findings of the audit, it may notify the other Party of its objection thereto and request binding arbitration to resolve the matter.

Section 7. Assignment of Contract. Neither Party may assign this Contract to a third party without the written consent of the other Party.

Article X. GENERAL TERMS

Section 1. Provisions to be Severable. If any provision of this Contract is held to be invalid by a court of competent jurisdiction, the invalidity of any such provision shall not affect the other provisions of this Contract that can be given effect without the provision determined to be invalid, and to that end, the provisions of this Contract are severable.

Section 2. Notices. Notices which DMWW or CIWW are authorized or required to give one another pursuant to this Contract shall be in writing and may be personally delivered, may be or sent by ordinary mail or delivery service to the addresses for such party reflected in the records of CIWW or DMWW, or may be sent by electronic means, including email. Notice by personal delivery, by delivery service, or by electronic means shall be effective upon actual receipt. Mailed notices shall be effective and deemed to be received by the party to whom directed when they are postmarked.

Section 3. Arbitration.

- (a) CIWW and DMWW agree that any disputes and any claims for money damages arising between or among them with regard to matters within the scope of this Contract shall be submitted to mandatory, binding arbitration at the request of any party. A request for arbitration must be in the form of a written notice requesting arbitration. Such notice shall identify each disputed matter to be submitted to arbitration. In the absence of agreement by the parties to the contrary, the question or questions to be arbitrated shall be those specified in the notice requesting arbitration.
- (b) If the parties agree, there may be one arbitrator. If they fail to agree on a single arbitrator, there shall be three arbitrators, one named in writing by the party or parties requesting arbitration, one named in writing by the adverse party or parties, and the third chosen by the first two arbitrators so chosen.
- (c) The party or parties requesting arbitration shall choose an arbitrator within ten (10) days following the parties' decision that they will not agree to use one arbitrator. Failure to do so shall be deemed a waiver of its request for arbitration. If the adverse party or parties desire to appoint a different arbitrator, they shall name their arbitrator within ten (10) days following the receipt of notice of the naming of the first arbitrator. The two arbitrators first chosen shall name the third arbitrator within ten (10) days following the selection of the

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second arbitrator. Extensions of the time periods to select arbitrators shall not be unreasonably withheld if requested prior to the original deadlines above. Should any party refuse or neglect to supply the arbitrators with any papers or information requested in writing by the arbitrators, the arbitrators are empowered to proceed ex parte. The parties shall agree on the rules to govern the conduct of the arbitration, but in the absence of such an agreement, the most recently published commercial arbitration rules of the American Arbitration Association shall be deemed to apply. The arbitrator or arbitrators must provide a minimum of thirty (30) days' notice before the date set for any hearing on the merits of the dispute.

- (d) No one shall be qualified to act as an arbitrator if service in such role would create a conflict of interest. Each arbitrator selected shall be qualified by experience and knowledge of the matter to be submitted to arbitration. Conflicts of interest include, but are not limited to: (i) current service on the board, commission, council, or other governing body of CIWW or any Member Agency of CIWW; (ii) current employment, either as an employee or independent contractor, by any CIWW or any Member Agency of CIWW; (iii) employment, either as an employee or independent contractor, within the last five (5) years by CIWW or any Member Agency of CIWW; (iv) any prior participation in negotiations related to the dispute; (v) any direct involvement in the dispute, including as a witness to relevant facts; and (vi) other circumstances that would materially impair the ability of the individual to serve as a neutral arbitrator.
- (e) If there is one arbitrator, the award of the sole arbitrator shall be binding; if three, the agreed upon award of any two shall be binding. The award may be set aside only for reasons permitted under Iowa law.
- (f) The award of the arbitrator or arbitrators shall be in writing and separately state the factual and legal analysis relied upon to reach the decision, and it shall not be open to objection on account of the form of the proceeding or the award.
- (g) The arbitrator or arbitrators may retain special counsel for the purpose of conducting the arbitration proceedings and preparing the arbitration award. In selecting special counsel, the arbitrator or arbitrators may not retain any attorney who has represented CIWW or a DMWW within the last five (5) years.
- (h) The costs of arbitration and reasonable attorneys' fees for both parties shall be paid by the party requesting arbitration if it does not prevail in said arbitration proceedings. If the party requesting arbitration prevails in the arbitration proceedings, the cost of arbitration shall be shared equally by the parties. Costs of the arbitration, include, but are not limited to, fees to the arbitrator or arbitrators, special counsel fees, and any other costs of the proceeding, but excluding reasonable attorneys' fees. If the party requesting arbitration prevails, each party shall be responsible for its own attorneys' fees. (i) CIWW and DMWW consent that any award granted through arbitration will be confirmed in the Iowa District Court for Polk County.

Section 4. Specific Performance. In addition to any other remedies available under

REVISED DRAFT NOVEMBER 17, 2023

applicable law, CIWW and DMWW shall have the right to the equitable remedy of specific performance to enforce compliance with any provision of this Contract.

Section 5. Actions in Court. Except for disputes covered by Section 3 of this Article X requiring arbitration, either CIWW or DMWW may bring an action in Court for declaratory relief, for specific performance, or for any equitable remedy. Any such action shall be brought in the Iowa District Court in Polk County. EACH PARTY WAIVES TRIAL BY JURY IN ANY SUCH ACTION.

Section 6. Duty to Mitigate. CIWW and DMWW each agrees that it has a duty to mitigate damages under this Contract and covenants that it will use reasonable efforts to minimize any damages it may incur as a result of an Event of Default involving any other party.

Section 7. No Third Party Benefit and Limitation. No provision of this Contract shall inure to the benefit of any other entity, or any individual resident, taxpayer, or ratepayer of any Member Agencies of CIWW. This Contract may be the basis of a claim or cause of action on behalf of any other person or entity against CIWW, DMWW or any Member Agency of CIWW or any of their respective residents, taxpayers, or ratepayers.

Section 8. Entire Contract. This Contract and the CIWW 28E-28F Agreement as in force on the Effective Date hereof shall be construed to form a single agreement, and are the entire agreement between the parties respecting the matters within the scope of this Contract. Any subsequent change or modification to the terms of this Contract shall be in the form of a duly approved and executed written amendment to this Contract.

Section 9. Governing Law. This Contract shall be governed by, construed and enforced in accordance with the laws of the State of Iowa.

Section 10. Partnership Disclaimer. Nothing in this Contract is intended or shall be construed as in any way creating or establishing a partnership between the parties hereto, or as constituting any party as an agent or representative of the other for any purpose or in any manner, other than as specified herein.

Section 11. Counterparts. This Contract may be executed in multiple counterparts, each of which so executed shall be deemed to be an original.

Section 12. Force Majeure. No party shall be liable for any failure to perform any or all of the provisions of this Contract if and to the extent performance has been delayed or prevented by reason of any cause beyond the reasonable control of such party. The expression "cause beyond the reasonable control" and the term "Force Majeure" as used in this Contract shall mean and be deemed to include, but not be limited to acts, regulations, laws, or restraints imposed by any governmental official or body; wars, hostilities, sabotage, riots, or commotions; acts of God; pandemic; or fires, floods, storms, or lightning.

Article XI. EXECUTION OF CONTRACT

Section 1. Passage of Resolution. This Contract shall not go into effect unless approved by resolution of the governing boards of DMWW and CIWW.

REVISED DRAFT
NOVEMBER 17, 2023

Section 2. Signature Pages. Each party shall execute the separate signature page provided for it, and the Parties hereto authorize their counsel to assemble the signature pages of all signatory Parties and to append such signature pages to copies of this Contract for filing with the Iowa Secretary of State.

[Signature Pages Follow]

CENTRAL IOWA WATER WORKS

By: _____
_____, Board Chairperson

ATTEST:

_____, Board Secretary

STATE OF IOWA)
) SS:
COUNTY OF POLK)

On this _____ day of _____, 2024, before me, a Notary Public in and for the State of Iowa, personally appeared _____ and _____ to me personally known, and, who being by me duly sworn, did say that they are the Board Chairperson and Board Secretary of CENTRAL IOWA WATER WORKS that no seal has been procured by the entity; that the attached instrument was signed on behalf of the said entity by authority of its Board as contained in the resolution adopted by the Board on the ____ day of _____, 2024, and that _____ and _____ acknowledged the execution of the instrument to be the voluntary act and deed of the CENTRAL IOWA WATER WORKS, by it and by them voluntarily executed.

Notary Public in and for the State of Iowa

BOARD OF WATER WORKS TRUSTEES OF THE CITY OF
DES MOINES, IOWA

By: _____
_____, Board Chairperson

ATTEST:

_____, CEO & General Manager

STATE OF IOWA)
) SS:
COUNTY OF POLK)

On this _____ day of _____, 2024, before me, a Notary Public in and for the State of Iowa, personally appeared _____ and _____ to me personally known, and, who being by me duly sworn, did say that they are the Board Chairperson and the CEO & General Manager of the BOARD OF WATER WORKS TRUSTEES OF THE CITY OF DES MOINES, IOWA, that no seal has been procured by the entity; that the attached instrument was signed on behalf of the said entity by authority of its Board as contained in the resolution adopted by the Board on the ____ day of _____, 202_, and that _____ and _____ acknowledged the execution of the instrument to be their voluntary act and deed of the BOARD OF WATER WORKS TRUSTEES OF THE CITY OF DES MOINES, IOWA, by it and by them voluntarily executed.

Notary Public in and for the State of Iowa

AGENDA ITEM FORM

SUBJECT: Acceptance of L. P. Moon Pumping Station – Pump No. 8

SUMMARY:

- At its November 2021 Board meeting, the Board of Water Works Trustees awarded a contract to The Waldinger Corporation, in the amount of \$123,390, for the L. P. Moon Pumping Station – Pump No. 8 project.
- The purpose of this project was to add a fourth pump to the Clive, West Des Moines, and Waukee system that is part of the L. P. Moon Pumping Station.
- This fourth pump serves as a back-up pump for the Clive, West Des Moines, and Waukee system in the event one of the existing three pumps that provides water to those systems unexpectedly fails or requires repairs.
- All work associated with this contract has been satisfactorily completed.
- Five change orders to the contract were negotiated with The Waldinger Corporation totaling \$11,697. Following is a summary of the change orders:

<u>Change Order</u>	<u>Amount</u>	<u>Description</u>
1	+\$1,710.00	Substitute manufacturer of vacuum priming valve to improve delivery time.
2	+\$1,335.00	Add bonding agent to improve longevity of new pump/motor foundation.
3	+\$866.00	Substitute concentric reducer for eccentric reducer on discharge piping.
4	+\$743.00	Drill/tap bottom flange of pump/motor baseplate to accommodate leveling screws.
5	+\$7,043.00	Furnish alternate bolting material and hardware to match pump flanges.
	+\$11,697.00 = Total Cost of Change Orders.	

- The final contract price for the L.P. Moon Pumping Station – Pump No. 8 project is \$135,087.
- Staff has briefed the Technical Committee of Central Iowa Water Works on the construction efforts and the recommendation to accept the contract.

FISCAL IMPACT:




No fiscal impact. A memorandum of understanding has been executed between DMWW and the staff from the cities of Clive, West Des Moines, and Waukee to share in the cost of this project.

RECOMMENDED ACTION:

Accept the L.P. Moon Pumping Station – Pump No. 8 project, completed by The Waldinger Corporation, in the amount of \$135,087.

BOARD REQUIRED ACTION:

Motion to accept the L.P. Moon Pumping Station – Pump No. 8 project, completed by The Waldinger Corporation, in the amount of \$135,087.

 Vern Rash, P.E., L.S. Project Manager	 Michael J. McCurnin, P.E. Director of Engineering Services	 Ted Corrigan, P.E. CEO and General Manager
12/14/23 (date)	12/14/23 (date)	12/14/23 (date)

Attachment: None

AGENDA ITEM FORM

SUBJECT: Environmental Review of Aquifer Storage and Recovery (ASR) Well

SUMMARY:

- At its December 2022 meeting, the Board of Water Works Trustees authorized the CEO and General Manager to execute a Professional Services Agreement with Strand Associates, Inc. for the 2023 Aquifer Storage and Recovery (ASR) Well design.
- Strand Associates, Inc. will provide engineering consulting services throughout the course of the project including design and construction of a new ASR well facility at the Polk County Pumping Station site.
- This project will improve Des Moines Water Works' (DMWW) operations by designing and constructing an additional ASR well facility at Polk County Pumping Station.
- Operational benefits of the project include:
 - Increased availability of seasonal, long-term, and emergency storage.
 - Improved ability to maintain distribution system pressure during peak demand.
 - Enhanced capability to maintain distribution system flow during low demand months.
 - Flexibility to respond to dramatic and prolonged reductions in raw water quality of surface water supplies.
 - Ability to defer expansion of water treatment and storage facilities.
- 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 (DNR) performs an environmental review for the project. 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 Iowa DNR has completed the environmental review for the proposed ASR well project and has cited several reasons for concluding the proposed project will result in no significant impact to the environment. These reasons are included in the full Environmental Information Document (EID) – copy attached. DMWW must now hold a public hearing to continue the SRF loan application process.

FISCAL IMPACT:



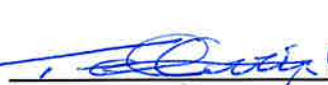
There is no fiscal impact associated with this item. Holding the public hearing is required to pursue the SRF financing once the project has bid.

RECOMMENDED ACTION:

Authorize staff to report that a public hearing was held on the Aquifer Storage and Recovery (ASR) Well project environmental review.

BOARD REQUIRED ACTION:

- Public Hearing – Opened by Chairperson for comments from the public regarding the environmental review of the Aquifer Storage and Recovery (ASR) Well project.
- Motion to close the public hearing and authorize staff to report that a public hearing was held.

 Vern Rash, P.E., L.S. Project Manager	 Michael J. McCurnin, P.E. Director of Engineering Services	 Ted Corrigan, P.E. CEO and General Manager
12/17/23 (date)	12/14/23 (date)	12/14/23 (date)

Attachments: Environmental Information Document

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
County: Polk
State: Iowa

SRF Number: FS-77-24-DWSRF-021
Iowa DNR Project Number: W2023-0463

COMMUNITY DESCRIPTION

Location and Population: The Des Moines Water Works (DMWW) in Des Moines, Iowa is located in Polk County, Iowa and is centrally located within the state. The DMWW is a regional utility providing drinking water to approximately 600,000 customers in the City of Des Moines and the surrounding metropolitan area. More than 20 central Iowa cities, rural water districts, and other entities located in Polk, Warren, Madison, and Dallas Counties are served by DMWW. Based on the consistent growth of the population served by DMWW, the planning period for this project will be approximately 15 years, or 2040. In 2040, that population is expected to be approximately 835,342 persons.

Project Background: Water demands are projected to increase as the population served by DMWW grows. DMWW uses a combination of surface water and alluvial groundwater sources. The surface water sources are the Raccoon and Des Moines Rivers. The groundwater sources are along the Raccoon and Des Moines Rivers and include an infiltration gallery and horizontal and radial collector wells. In addition, DMWW has three Cambrian-Ordovician (Jordan) Aquifer Storage and Recovery (ASR) wells. These ASR wells do not supply raw water to the water system. ASR wells effectively supply underground water storage for the water supply system. During periods of low water demand, water is pumped into the ASR; later, during high demand the flow is reversed. Strict regulations track the input and output to balance the system fairly. Based on projected water demands, DMWW will have to provide additional peak capacity water. DMWW will need to continue developing further solutions to meet existing and projected water demands in coming years.

PROJECT DESCRIPTION

Purpose: The purpose of this project is to make improvements to the water supply system to enhance their reliability, increase storage capacity, and to operational flexibility to better continue to safely and reliably operate the Des Moines Water Works water supply system for at least the next 20 years.

Proposed Improvements: The project will consist of construction a new Aquifer Storage and Recovery (ASR) well and associated facilities, including a building for flow control and monitoring, water quality monitoring, disinfection and other chemical feed systems, and other components required to support ASR operation. Site work will include piping to connect the new well to the building and to connect the building to the distribution system, piping to route well flush water discharge for disposal, grading and access drive modifications, and other site work as required. The pumping capacity of the ASR facility will be 3.0 million gallons per day (mgd).

ALTERNATIVES CONSIDERED

Alternatives Considered: In order to provide solutions to meet existing and projected water demands for the coming years, options include additional ASR wells, expansion of the existing water treatment plants, and additional storage structures.

Reasons for Selection of Proposed Alternative: The No-Action alternative is not viable due to the expected increase in demand due to population growth. The project site was selected for the availability of land, proximity to existing infrastructure, engineering criteria, expected population/demand growth geographically, and capacity/demand modeling as well as minimization of the impacts to the environment.

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

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 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 effect 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 will be submitted by the DMWW'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 on the project, it does not appear to 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, it will not impact wetlands provided that any necessary Nationwide Permit is obtained and the terms of which are abided by. While the Iowa DNR Flood Plain Management Section has not yet commented on the project, 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.

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 determined 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. An Underground Injection Control (UIC) permit must be issued by the EPA. Provided that the UIC permit is 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, or water supply.

During testing, which is required for the well to be permitted, water will be recovered from the ASR well and flushed and cannot be pumped to the distribution system. The purpose of testing is to test the water quality upon recovery compared to the injection water, as well as monitor the confirm flow rates and water levels during injection and recovery from the aquifer bubble. There are no sanitary sewers near the Northeast 14th Street site with adequate capacity to be used for flush water disposal; therefore, the flush water will be discharged through a new 16-inch storm sewer to the ditch located northwest of the site. A National Pollutant Discharge Elimination System (NPDES) permit will be required for the flushing water discharge. The flush water will require dechlorination before it is discharged.

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 quantity for the customers of the DMWW. By using the temporary storage in the ASR, fluctuating water demands can be better managed.

SUMMARY OF REASONS FOR CONCLUDING NO SIGNIFICANT IMPACT

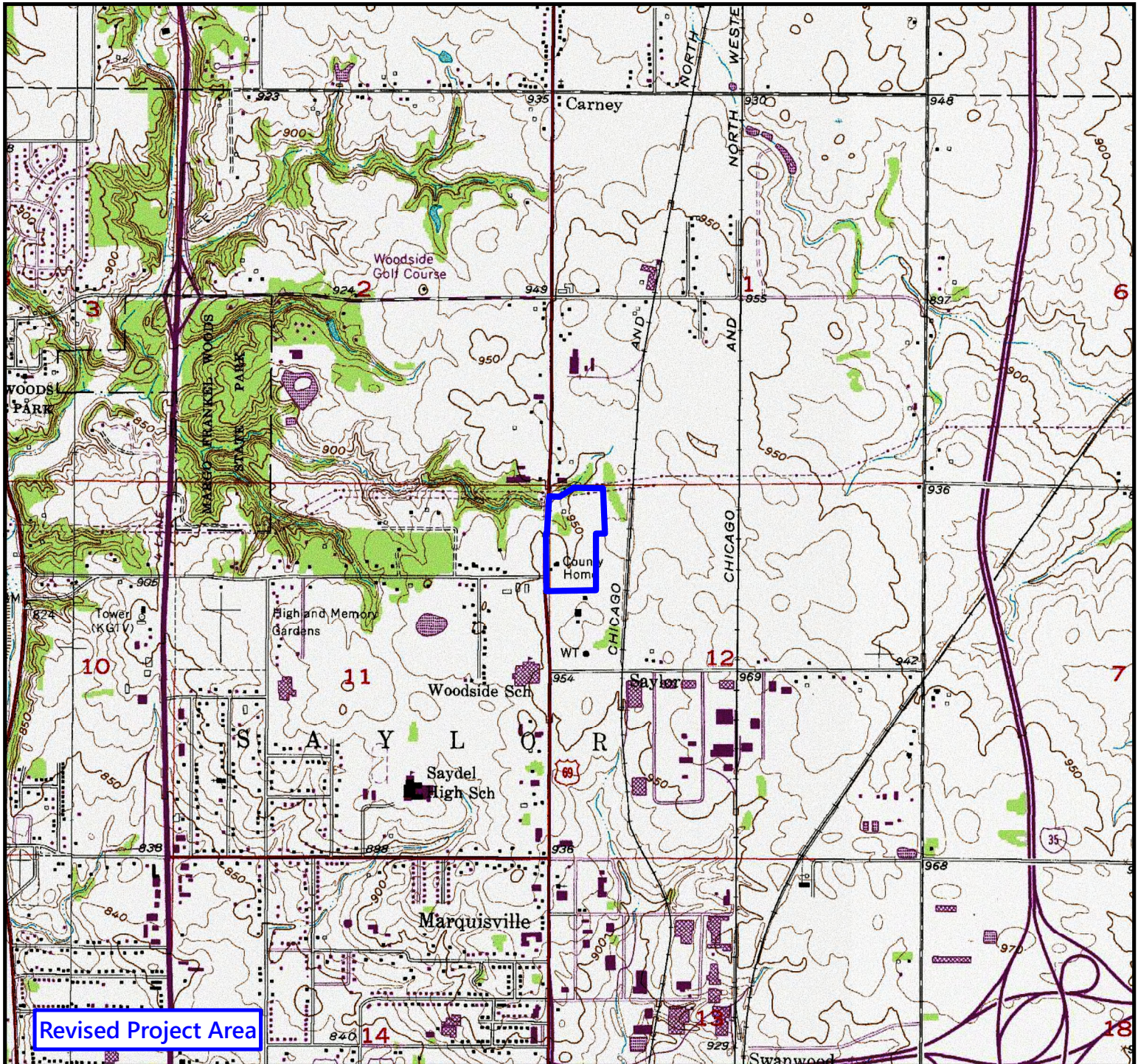
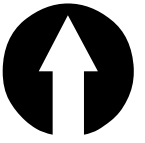
- The project will not significantly affect the pattern and type of land use (industrial, commercial, agricultural, recreational, residential) or growth and distribution of population.
- The project will not conflict with local, regional or State land use plans or policies.
- While the Iowa DNR Conservation and Recreation Division has not yet commented on the project, it does not appear to 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, it will not impact wetlands provided that any necessary Nationwide Permit is obtained and the terms of which are abided by.
- While the Iowa DNR Flood Plain Management Section has not yet commented on the project, 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.
- The project will not affect 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.
- 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 effect 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.
- 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) and the NPDES permit for well testing are obtained and the terms of which are abided by.
- An Underground Injection Control (UIC) permit must be issued by the EPA. Provided that the UIC permit is 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, or water supply.

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

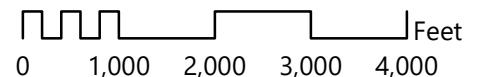
Printed Name of the Chair, Des Moines Water Works

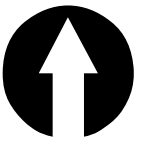


Topographic Map

DMWW Aquifer Storage and Recovery Well (ASR) Revised
Des Moines, Iowa (Polk County)

Scale: 1 inch = 2,000 feet

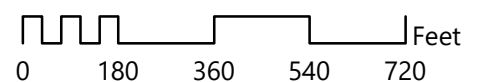


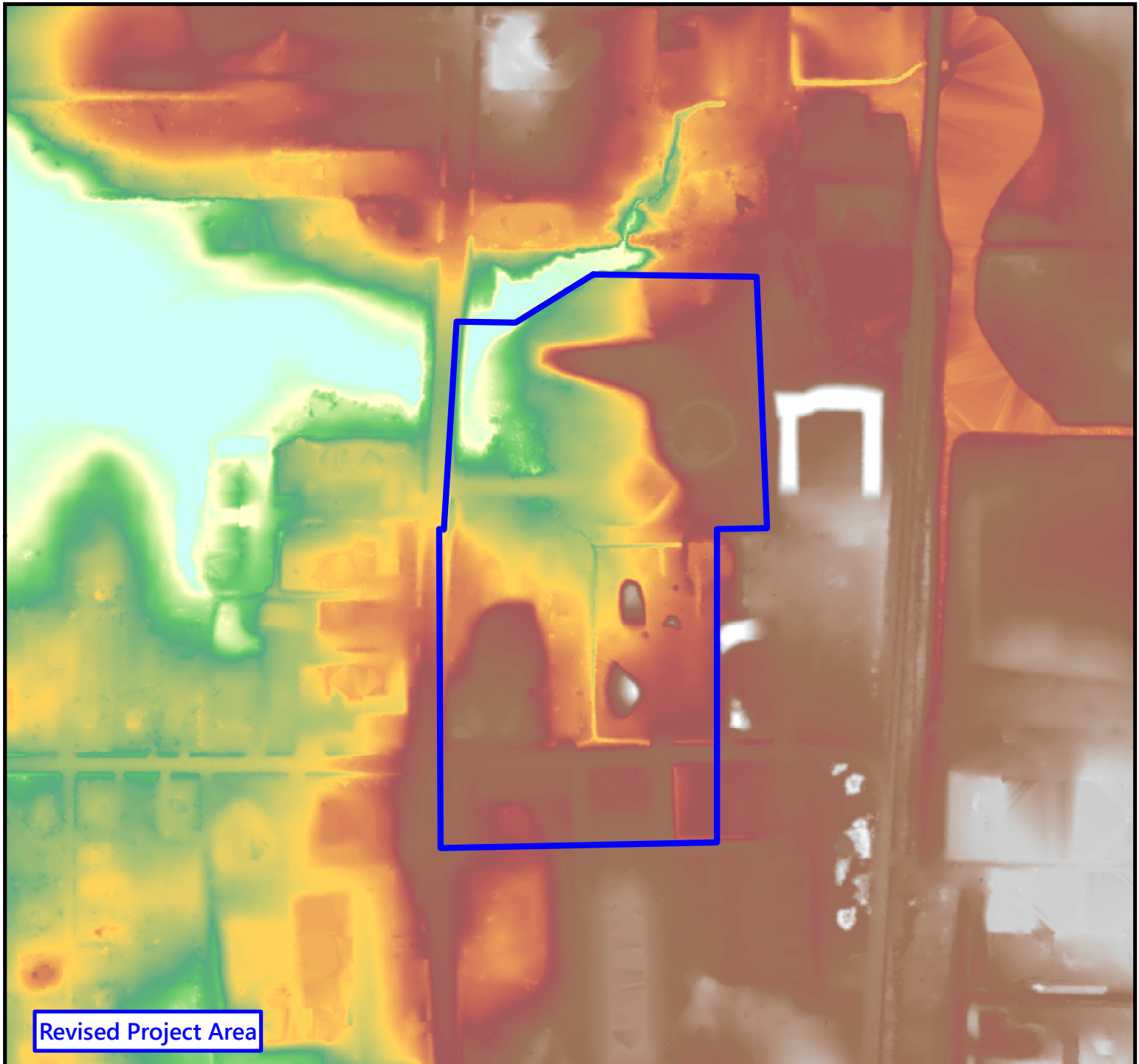
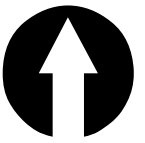


Aerial Photograph

DMWW Aquifer Storage and Recovery Well (ASR) Revised
Des Moines, Iowa (Polk County)

Scale: 1 inch = 361 feet

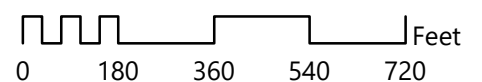




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DMWW Aquifer Storage and Recovery Well (ASR) Revised
Des Moines, Iowa (Polk County)

Scale: 1 inch = 361 feet





DES MOINES WATER WORKS
Board of Water Works Trustees

Agenda Item No. III-E
Meeting Date: December 19, 2023
Chairperson's Signature ☒ Yes ☐ No

AGENDA ITEM FORM

SUBJECT: 2023 FWTP - Pump Station HVAC Upgrades

SUMMARY:

- At its October 2023 meeting, the Board of Water Works Trustees authorized staff to solicit bids for the 2023 FWTP-Pump Station HVAC Upgrade project. The Public Hearing was established as the date of the December 2023 Board meeting.
- Plans, specifications, and contract documents were sent to 14 prospective bidders and 6 plan houses on November 3, 2023. A pre-bid meeting and a subsequent site visit on November 15th and 16th resulted in five contractors looking at the existing conditions and potential project.
- Staff reached out to several contractors the week of November 27th to remind them about the project, and ultimately, only one (1) bid was submitted on December 5, 2023. The bid result is below:

Bidder:
Corn States Metal Fabricators, Inc.

Lump Sum Bid:
\$1,047,000

- The engineer's estimate for the Lump Sum Bid was \$1,106,000 so the lone bid came in slightly below the estimate.
- Staff has briefed the Technical Committee of Central Iowa Water Works on the project design, bid results, and the recommendation to award.
- Staff recommends the Board award the 2023 FWTP-Pump Station HVAC Upgrades project to Corn States Metal Fabricators, Inc., in the amount of \$1,047,000.

FISCAL IMPACT:




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

RECOMMENDED ACTION:

Staff recommends the Board award the 2023 FWTP-Pump Station HVAC Upgrades Contract in the amount of \$1,047,000 to Corn States Metal Fabricators, Inc. 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 the hearing.
- Motion for adoption of form of contract, plans and specifications, and estimated cost.
- Analysis of bids received.
- Award the 2023 FWTP-Pump Station HVAC Upgrades Contract in the amount of \$1,047,000 to Corn States Metal Fabricators, Inc. and authorize the Chairperson and CEO and General Manager to execute the contract.

 Lindsey Wanderscheid, P.E. (date) <u>12/14/23</u> Engineering Supervisor	 Michael J. McCurnin, P.E. (date) <u>12/14/23</u> Director of Engineering Services	 Ted Corrigan, P.E. (date) <u>12/14/23</u> CEO and General Manager
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Attachment: None

AGENDA ITEM FORM

SUBJECT: 2024 Filter Media Replacement – Fleur Drive Water Treatment Plant

SUMMARY:

- At its October 2023 meeting, the Board of Water Works Trustees authorized staff to solicit bids for the 2024 Filter Media Replacement – Fleur Drive Water Treatment Plant project. The Public Hearing was established as the date of the December 2023 Board meeting.
- Contract documents were configured to replace filter media in four of the existing sixteen filters at the Fleur Drive Water Treatment Plant.
- Provisions of the contract documents allowed an optional Alternate Bid 1 for substituting placement of high-density support gravel, consisting of garnet, in lieu of silica gravel for the top layer of the filter media support gravel system.
- The engineer's cost estimate for the 2024 Filter Media Replacement – Fleur Drive Water Treatment Plant project was \$840,000.
- Bids were received and opened on December 6, 2023, and are summarized, below:

<u>Bidder</u>	<u>Base Bid</u>	<u>Alternate Bid 1</u>
Hydro-Klean, LLC	\$990,595	No Bid
Minturn, Inc.	\$1,098,500	No Bid
Shank Constructors, Inc.	\$1,391,500	No Bid

- The lowest Base Bid, in the amount of \$990,595, was submitted by Hydro-Klean, LLC, of Des Moines, Iowa. None of the three bidders submitted an Alternate Bid 1 due to unavailability of the specified high-density support gravel material.
- Hydro-Klean, LLC, has successfully completed several projects for Des Moines Water Works including the last filter media replacement project in the mid-1990s.
- Staff has briefed the Technical Committee of Central Iowa Water Works on the project design, bid results, and the recommendation to award.
- Staff recommends award of the 2024 Filter Media Replacement – Fleur Drive Water Treatment Plant contract to Hydro-Klean, LLC, for the \$990,595 Base Bid amount, and that the Chairperson and the CEO and General Manager be authorized to execute the contract.

FISCAL IMPACT:




Funds for this project will come from the Fleur Drive Treatment Plant - Filter Plant Rehabilitation budget.

RECOMMENDED ACTION:

Award the 2024 Filter Media Replacement – Fleur Drive Water Treatment Plant contract to Hydro-Klean, LLC, for the \$990,595 Base Bid amount, and authorize the Chairperson and the 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 the 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 2024 Filter Media Replacement – Fleur Drive Water Treatment Plant contract to Hydro-Klean, LLC, for the \$990,595 Base Bid amount, and authorize the Chairperson and the CEO and General Manager to execute the contract.

 Vern Rash, P.E., L.S. Project Manager	 Michael J. McCurnin, P.E. Director of Engineering Services	 Ted Corrigan, P.E. CEO and General Manager
12/14/23 (date)	12/14/23 (date)	12/14/23 (date)

Attachments: None



DES MOINES WATER WORKS
Board of Water Works Trustees

AGENDA ITEM FORM

Agenda Item No. III-G
Meeting Date: December 19, 2023
Chairperson's Signature ☒ Yes ☐ No

SUBJECT: 2023 Des Moines Water Main Replacement – Contract 4

SUMMARY:

- In October 2023, the Board of Water Works Trustees authorized staff to solicit bids for the 2023 Des Moines Water Main Replacement – Contract 4 project. The Public Hearing was established as the date of the December 2023 Board meeting.
- The work under this Contract will consist of the replacement of approximately 3,600 feet of water main on streets including E Pleasant View Dr., E Virginia Ave., SE 6th St., and SE 7th St.
- Plans, specifications, and contract documents were taken out by several prospective bidders. Staff reached out to several contractors the week of December 4th to remind them of the project. Six bids were submitted on December 7, 2023. The bid from J&K Contracting was not opened because required documents were missing.

BIDDER

Rognes Corporation
MPS Engineers PC
On Track Construction, LLC
Corell Contractors, Inc.
Synergy Contracting, LLC
J&K Contracting, LLC

TOTAL OF ALL BASE BIDS

\$1,844,549.00
\$1,992,182.00
\$2,239,687.00
\$2,392,225.50
\$2,992,195.00
Nonresponsive

- The engineer's estimate for this contract is \$1,808,083.
- Rognes Corporation has successfully completed other projects for Des Moines Water Works in the past.
- Staff recommends the Board award the 2023 Des Moines Water Main Replacement - Contract 4 project to Rognes Corporation, in the amount of \$1,844,549.

FISCAL IMPACT:

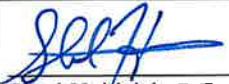
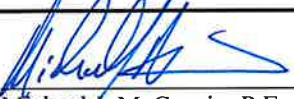

Funds for this project will come from the 2023 Des Moines Water Main Replacement Budget.

RECOMMENDED ACTION:

Award the 2023 Des Moines Water Main Replacement - Contract 4 project in the amount of \$1,844,549.00 to Rognes Corporation 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.
- Motion for adoption of form of contract, plans and specifications, and estimated cost.
- Analysis of bids received.
- Award the 2023 Des Moines Water Main Replacement – Contract 4 project in the amount of \$1,844,549.00 to Rognes Corporation authorize the Chairperson and CEO and General Manager to execute the contract.

 Shad Haidisiak, P.E. Professional Engineer	12/14/23 (date)	 Michael J. McCurnin, P.E. Director of Engineering Services	12/14/23 (date)	 Ted Corrigan, P.E. CEO and General Manager	12/14/23 (date)
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Attachments: Site Map

PROJECT LOCATIONS

Des Moines
Water Works
Water You Can Trust for Life

2023 DES MOINES WATER MAIN REPLACEMENT
CONTRACT 4

NOT TO SCALE



DES MOINES WATER WORKS
Board of Water Works Trustees

Agenda Item No. III-H
Meeting Date: December 19, 2023
Chairperson's Signature Yes ☒ No ☐

AGENDA ITEM FORM

SUBJECT: Award 2023 FWTP Distribution Building Improvements – Structural Repairs

SUMMARY:

- On December 12, 2023, Engineering Staff received bids for concrete restoration structural repairs to be performed in the parking garage portion of the Distribution Building. The upper-level concrete floor system is exhibiting corrosive distress resulting from deposition of de-icing salts carried into the facility by utility vehicles. The deterioration is extensive enough to warrant discontinuing vehicle parking use, but with repairs implemented in this project, the structure can be restored and repurposed to provide needed space for offices and meeting rooms.
- The scope of this project is to remove deteriorated concrete elements and replace them with new materials to restore the overall structure to suitably support the new facility function.
- Four bids were received for the work from all qualified contractors. The bid tabulation is:

<u>BIDDERS</u>	<u>BASE BID TOTAL</u>
Woodruff Construction, Inc.	\$97,327.00
Nate Todd Construction, LLC	\$123,552.50
Minturn, Inc.	\$127,000.00
Bi-State Masonry	\$185,625.00

- The engineer's estimate for work on this project was \$135,000.
- Staff recommends the Board award of the 2023 FWTP Distribution Building Improvements – Structural Repairs contract to Woodruff Construction, Inc., in the amount of \$97,327.

FISCAL IMPACT:

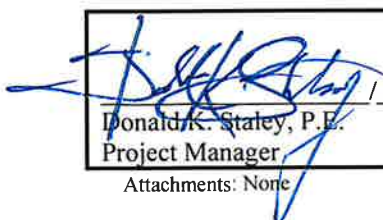
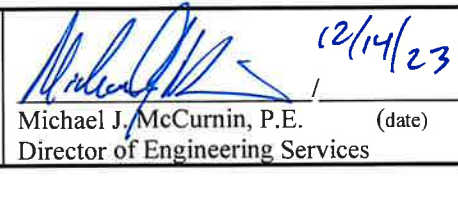
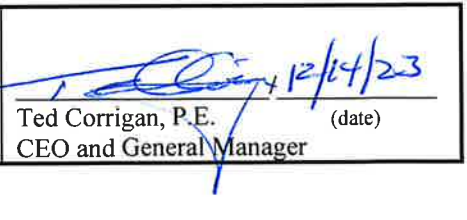
Funds for the project will come from the 2023 Facility Management budget.

RECOMMENDED ACTION:

Award the 2023 FWTP Distribution Building Improvements – Structural Repairs to Woodruff Construction, Inc. in the amount of \$96,727.00 and authorize the Chairperson and the CEO and General Manager to execute the contract.

BOARD REQUIRED ACTION:

Award the 2023 FWTP Distribution Building Improvements – Structural Repairs to Woodruff Construction, Inc. in the amount of \$96,727.00 and the Chairperson and the CEO and General Manager to execute the contract.

 Donald K. Staley, P.E. Project Manager Attachments: None	 Michael J. McCurnin, P.E. Director of Engineering Services	 Ted Corrigan, P.E. CEO and General Manager
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DES MOINES WATER WORKS
Board of Water Works Trustees

Agenda Item No. III-1
Meeting Date: December 19, 2023
Chairperson's Signature ☐ Yes ☒ No

AGENDA ITEM FORM

SUBJECT: Request Authorization to Solicit Bids for 2023 Des Moines Water Main Replacement - Contract 3 and Establish the Date of the Public Hearing as the Date of the January 2024 Board Meeting

SUMMARY:

- As part of the approved 2023 Des Moines Water Main Replacement budget, the streets identified in the table below are to receive new water mains due to a history of main breaks and other service issues.

Streets

Bell Avenue, from SW 30th Street to 2270 Bell Avenue
Sunset Road, from SW 28th Street to 2260 Sunset Road

Engineer's Est.

\$1,482,000

\$1,547,000

Total

\$3,029,000

- Preparation of plans, specifications, and contract documents for the 2023 Des Moines Water Main Replacement - Contract 3 is nearing completion.
- Work on Bell Avenue will call for the installation of approximately 3,100 feet of 12-inch polyvinyl chloride (PVC) water main.
- Work on Sunset Road will call for the installation of approximately 2,604 feet of 12-inch and 78 feet of 8-inch ductile iron pipe (DIP) water main.
- The engineer's estimate for this contract is \$3,029,000.

FISCAL IMPACT:




Funds for this project will come from the 2023 Des Moines Water Main Replacement budget.

RECOMMENDED ACTION:

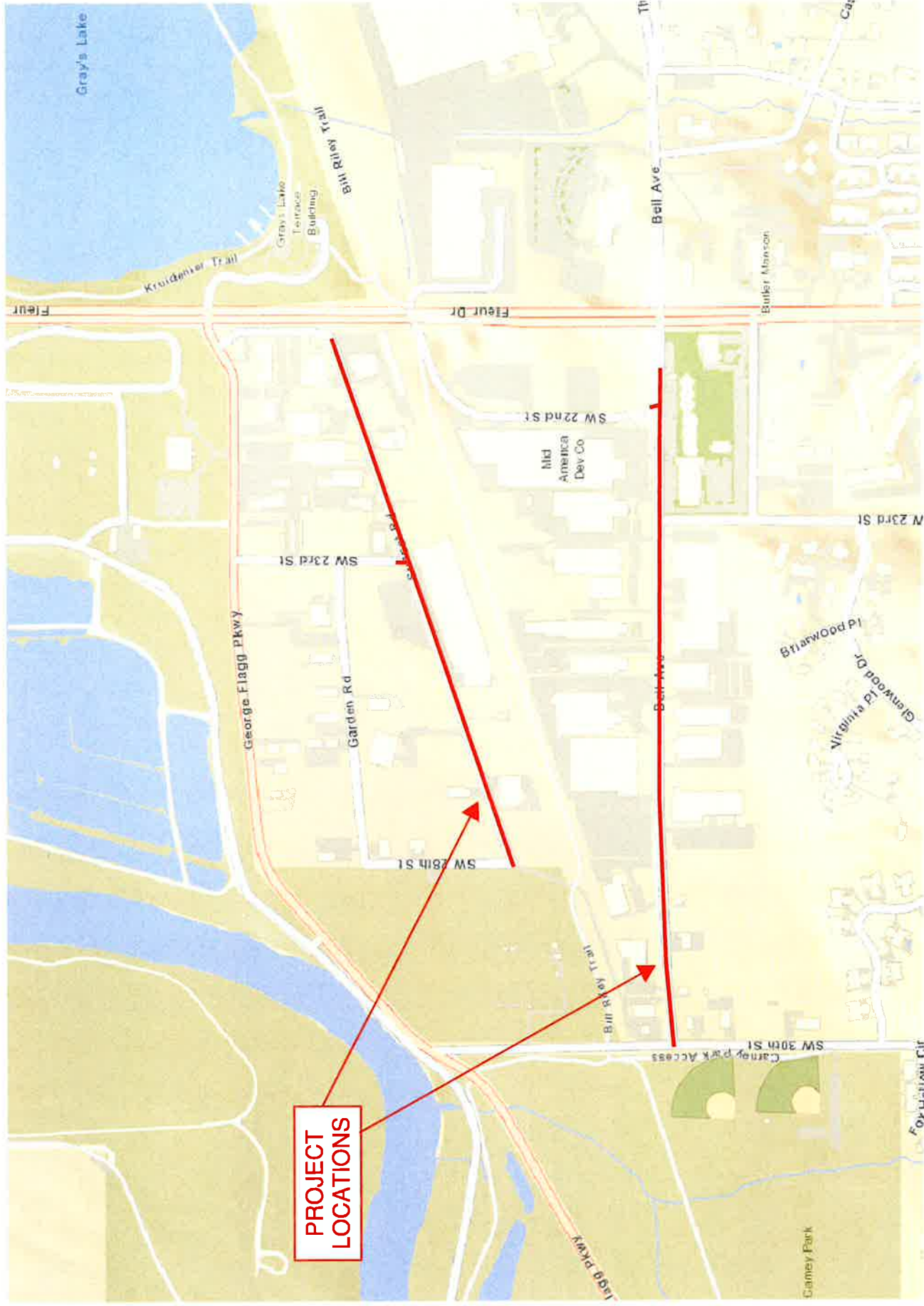
Authorize staff to solicit bids for 2023 Des Moines Water Main Replacement - Contract 3 and establish the date of the Public Hearing as the date of the January 2024 Board meeting.

BOARD REQUIRED ACTION:

Motion to authorize staff to solicit bids for 2023 Des Moines Water Main Replacement - Contract 3 and establish the date of the Public Hearing as the date of the January 2024 Board meeting, and direct staff to publish notice as provided by law.

 Mike Zach, P.E. Project Manager (date) <u>12-14-23</u>	 Michael J. McCurnin, P.E. Director of Engineering Services (date) <u>12/15/23</u>	 Ted Corrigan, P.E. CEO and General Manager (date) <u>12/14/23</u>
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Attachments: Site Map



AGENDA ITEM FORM

SUBJECT: Request Authorization to Execute the Second Amendment to Chapter 28E Agreement between Des Moines Water Works, the City of Waukee, and Xenia Rural Water District for the Waukee/Xenia Joint System Facilities

SUMMARY:

- During the first quarter of 2019, Des Moines Water Works (DMWW), the City of Waukee, and Xenia Rural Water District entered into a 28E Agreement that allowed additional water to be delivered to the City of Waukee.
- Waukee acquired, from Xenia, 0.4 million gallons per day (MGD) of capacity in both a 24-inch feeder main and a corresponding pumping station.
- DMWW acquired operations and maintenance responsibilities of both the feeder main and the pumping station. All operations and maintenance expenses for such efforts are to be proportionately billed back to Xenia and Waukee based upon relative consumption.
- A new meter pit and new chemical feed facilities were constructed by Waukee. Modifications to the chemical feed system at the pumping station (located on the LP Moon site) were constructed by DMWW.
- A First Amendment to the Chapter 28E Agreement was executed February 23, 2022 to clarify the actual location of the new meter pit and chemical feed facilities.
- A Second Amendment is now desired for this 28E that would allow Waukee to increase the acquired capacity (up to 0.864 MGD under normal conditions and up to 1200 gallons per minute in emergency situations) in the same 24-inch feeder main and the corresponding pumping station. Operations and maintenance elements along with the proportional billing back to Waukee and Xenia documented in the original 28E remain unchanged with this Second Amendment.
- Staff has briefed the Technical Committee of Central Iowa Water Works on the key elements of the Second Amendment to the Chapter 28E Agreement.
- Respective staff and legal counsel for DMWW, Xenia, and Waukee are in favor of the Second Amendment to the Chapter 28E Agreement.

FISCAL IMPACT:




There is no fiscal impact.

RECOMMENDED ACTION:

Authorize the Chairperson to execute the Second Amendment to the Chapter 28E Agreement between Des Moines Water Works, the City of Waukee, and Xenia Rural Water District for the Waukee/Xenia Joint System Facilities.

BOARD REQUIRED ACTION:

Motion to approve and authorize the Chairperson to execute the Second Amendment to the Chapter 28E Agreement between Des Moines Water Works, the City of Waukee, and Xenia Rural Water District for the Waukee/Xenia Joint System Facilities.

 Michael J. McCurnin, P.E. (date) <u>12/14/23</u> Director of Engineering Services	 Kyle A. Danley, P.E. (date) <u>12/15/23</u> COO	 Ted Corrigan, P.E. (date) <u>12/14/23</u> CEO and General Manager
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Attachments: 28E Agreement with all exhibits and attachments, First Amendment to 28E Agreement, Second Amendment to 28E Agreement



Paul D. Pate
Secretary of State
State of Iowa

28E Agreement

FOR OFFICE USE ONLY:

FILED

M511603

4/3/2019 2:07:10 PM

PLEASE READ INSTRUCTIONS ON BACK BEFORE COMPLETING THIS FORM

Item 1. The full legal name, organization type and county of each participant to this agreement are:

	Full Legal Name	Organization Type	*County
Party 1	Board of Water Works Trustees - City of Des Moines	Other	Polk
Party 2	Xenia Rural Water District	Other	Dallas
Party 3	City of Waukee, Iowa	City	Dallas
Party 4			
Party 5			

**Enter "Other" if
not in Iowa*

Item 2. The type of Public Service included in this agreement is: 310 Water System
(Enter only one Service Code and Description) Code Number Service Description

Item 3. The purpose of this agreement is: (please be specific)

To undertake certain enhancements to the water systems as describe herein in order to provide service to Waukee and Xenia from facilities currently owned by Xenia.

Item 4. The duration of this agreement is: (check one) ☒ Agreement Expires 6/10/2045 ☐ Indefinite Duration
[mm/dd/yyyy]

Item 5. Does this agreement amend or renew an existing agreement? (check one)

☒ **NO**

☐ **YES** Filing # of the agreement: _____

(Use the filing number of the most recent version filed for this agreement)

The filing number of the agreement may be found by searching the 28E database at: <http://sos.iowa.gov/28e>.

Item 6. Attach two copies of the agreement to this form if not filing online.

Item 7. The primary contact for further information regarding this agreement is: (optional)

LAST Name Watson **FIRST** Name Michelle

Title ENG Svcs Admin Assistant Department ENG Svcs Admin Assistant

Email watson@dmww.com Phone 515-283-8730

**CHAPTER 28E AGREEMENT BY AND BETWEEN
THE CITY OF WAUKEE, IOWA
XENIA RURAL WATER DISTRICT,
AND THE BOARD OF WATER WORKS TRUSTEES OF THE
CITY OF DES MOINES, IOWA**

THIS CHAPTER 28E AGREEMENT (hereinafter "this Agreement") is made and entered into by and among the CITY OF WAUKEE, IOWA ("Waukee"), XENIA RURAL WATER DISTRICT ("Xenia"), and the BOARD OF WATER WORKS TRUSTEES OF THE CITY OF DES MOINES, IOWA ("DMWW") (each a "party" and collectively "the parties") as of the dates set forth below.

PREAMBLE

WITNESSETH:

WHEREAS, the parties desire to enter into an Agreement pursuant to Chapter 28E, Iowa Code, to cause, and to undertake certain enhancements to the water systems as described herein in order to provide service to Waukee and Xenia from facilities currently owned by Xenia.

WHEREAS, Waukee has previously entered into a Wholesale Water Service Master Agreement with DMWW dated June 10, 2005, with related Adoption Annex executed effective August 15, 2005 as supplemented by Supplement Number 1 to Adoption Annex dated July 1, 2012 (the "2005 Wholesale Master Agreement") which shall continue to govern the wholesale supply of water by DMWW; and

WHEREAS, Xenia has previously entered into a Wholesale Water Service Master Agreement with DMWW dated June 10, 2005, with related Adoption Annex executed effective July 26, 2005 as supplemented by Supplement Number 1 to Adoption Annex dated December 18, 2007, Supplement Number 2 to Adoption Annex dated October 1, 2013 (the "2005 Wholesale Master Agreement"), and Supplement Number 3 to Adoption Annex dated December 18, 2014 which shall continue to govern the wholesale supply of water by DMWW; and

WHEREAS, Xenia desires to sell to Waukee capacity in its existing 24" feeder main located along West Hickman Road from DMWW's LP Moon facility (the "L.P. Moon Site") to T Avenue and capacity in its existing booster station located at the L.P. Moon Site. Following such sale Waukee and Xenia will jointly own this facility.

WHEREAS, Waukee and Xenia desire that DMWW assume responsibility for operation and maintenance of the jointly owned Waukee/Xenia booster station located at the L.P. Moon Site and the 24" feeder main to T Avenue. The cost of operation, maintenance and improvements to this station will be paid by Waukee and Xenia to DMWW according to the provisions of this agreement.

WHEREAS, Waukee and Xenia also desire to provide for design and construction of certain improvements to the shared water service facilities as established, with Waukee to proceed with design, bidding, and construction of new facilities, and with costs to be paid and shared, as provided herein;

NOW THEREFORE, in consideration of the mutual undertakings hereby provided, Waukee, Xenia, and DMWW do hereby agree as follows:

**Article I - Joint Exercise of Powers Under
Chapter 28E of the Code of Iowa.**

1. **Purpose.** Pursuant to Chapter 28E, Code of Iowa (2017), the parties agree that the purposes of this Agreement are: (i) to provide for the shared use of certain water utility facilities located as shown in Exhibit A and to share capacity in an existing water main and booster station as set forth in Exhibit B-1 and B-2 to be improved as provided herein (hereinafter referred to collectively as the "Waukee/Xenia Joint System Facilities"); (ii) to provide for the design and construction of certain improvements to the Waukee/Xenia Joint System Facilities; (iii) to provide for the ownership, operation, use and maintenance of the Waukee/Xenia Joint System Facilities, including operation of a part thereof by DMWW; and (iv) to make appropriate provision for the costs and expenses of the foregoing.

2. **Scope.** The Waukee/Xenia Joint System Facilities shall consist of newly constructed improvements at the locations shown in Exhibit A together with shared use of an existing water main and booster station with the total project to be implemented in five parts as follows:

Part 1 – The sale by Xenia to Waukee of the right of use of 400,000 gallons per day of capacity in the existing 24" water main along West Hickman Road from the L.P. Moon site to T Avenue. Following the sale Xenia and Waukee shall jointly own this facility.

Part 2 – The sale by Xenia to Waukee of the right to use 400,000 gallons per day of capacity in the existing Waukee/Xenia booster station located at the L.P. Moon site. Following the sale Xenia and Waukee shall jointly own this facility.

Part 3 – Waukee shall design and construct all new facilities required to make the Waukee/Xenia Joint System operate including, chloramination and chemical feed facility, a new control valve to control flow into Waukee, a new meter pit for metering water into Waukee, a new control valve to control flow to Xenia, a new meter pit for metering of water to Xenia, along with analyzers, telemetry and controls at these facilities.

Part 4 – Xenia shall disconnect the current chemical feed systems in the Clive Booster Station. DMWW shall design and construct a chlorine feed system from the L. P. Moon Pump Station that will be piped over to the Waukee/Xenia booster station to provide the opportunity to control the chlorine residual leaving the Waukee/Xenia booster station. Waukee shall pay all costs associated with these improvements.

Part 5 –DMWW shall operate the Waukee/Xenia booster station located at the L.P. Moon Site until such time as such operation is terminated as provided herein. Costs for ongoing operation and maintenance of the facilities shall be paid by Waukee and Xenia as provided in Article IV of this Agreement.

The Xenia sale of capacity to Waukee is intended to support the respective needs of Waukee with ownership, use, and costs allocated as provided herein. The Waukee/Xenia Joint System Facilities shall be owned as provided in Article I Section 7 and Article III of this Agreement, and the costs of sale shall be paid by Waukee as detailed in Exhibits B-1 through B-4.

3. 28E Finding. The parties agree that the improvements to the Waukee/Xenia Joint System Facilities to be constructed hereunder reflect appropriate regional planning, and, in conformity with Section 28E.18, Code of Iowa (2017) that there are no other suitable facilities available for rent or sharing in lieu of such improvements.

4. Effective Date. Pursuant to Section 28E.5 of the Code of Iowa (2017), the parties agree that this Agreement shall be effective upon its approval and execution by all parties and its filing with the Iowa Secretary of State (the "Effective Date").

5. No Entity. No separate entity is created hereby.

6. Designated Administrator. The parties hereby agree that CEO and General Manager of DMWW shall be designated as the sole administrator of this Agreement as provided by Section 28E.6 of the Code of Iowa.

7. Individual Ownership and Responsibility. Except as otherwise explicitly provided herein, each party shall at all times hold and own its respective properties. Each party shall be solely authorized to supervise, direct, and manage its own activities and the activities of its respective employees and agents hereunder. Each party shall retain sole responsibility and liability for its own acts and omissions hereunder and for the acts and omissions of its respective employees and agents hereunder, and each party waives subrogation against the other for all claims, suits, damages, and demands which are covered by any insurance, including but not limited to property, casualty and workers compensation insurance.

8. Master Agreement and Other Existing Agreements. The 2005 Wholesale Master Agreement between DMWW and Waukee and DMWW and Xenia shall remain in full force and effect. DMWW and Waukee shall separately execute a Supplement Number 2 to Adoption Annex in the form set forth in Exhibit C to reflect the terms hereof. DMWW and Xenia shall separately execute a Supplement Number 4 to Adoption Annex in the form set forth in Exhibit D to reflect the terms hereof.

9. Authority. Each of the parties represents and warrants that it has authority to enter into this Agreement and to perform its obligations hereunder and that the execution of this Agreement has been duly authorized by its governing body.

Article II - Responsibilities

1. Project Implementation. The Waukee/Xenia Service Facilities will be established by execution of five (5) steps, identified herein as Part 1, 2, 3, 4, and 5. Waukee and DMWW shall be responsible for undertaking construction of the required public improvements as detailed herein.

2. Part 1 Responsibilities. Xenia shall provide 400,000 gallons per day of capacity rights in its existing 24" water main along West Hickman Road from the Xenia Booster Station located at the L.P. Moon Site to T Avenue (the "West Hickman Road Main") to Waukee in exchange for payment computed as set forth in Exhibit B-1 and as provided in Article IV of this Agreement. Such payment shall be made as provided in Article IV of this Agreement.

3. Part 2 Responsibilities. Xenia shall provide 400,000 gallons per day of capacity rights in its existing booster station located at the L.P. Moon Site to Waukee in exchange for payment computed as set forth in Exhibit B-2 and as provided in Article IV of this Agreement. Such payment shall be made as provided in Article IV of this Agreement.

4. Part 3 Responsibilities. Waukee shall be responsible for the design and construction of the improvements to the Waukee/Xenia Service Facilities identified in Part 3. Xenia will assume responsibility for operation and maintenance of the new chemical feed building and related underground facilities. DMWW will assume responsibility for operation and maintenance of the Waukee meter pit and control valve along with related controls in the chemical feed building.

5. Part 4 Responsibilities. DMWW shall be responsible for designing and constructing improvements to the Waukee/Xenia Service Facilities as identified in Part 4. Waukee shall pay DMWW for the full costs of the improvements made as provided in Article IV of this Agreement.

6. Part 5 Responsibilities. DMWW shall operate and maintain the Waukee/Xenia booster station located at the L.P. Moon Site and the 24" feeder main to T Avenue on behalf of Waukee and Xenia as an independent contractor beginning on May 31, 2019 and continuing until such responsibility shall be terminated by not less than six months' notice given jointly by Waukee and Xenia to DMWW. Xenia will be responsible for responding to utility locates requests. Waukee and Xenia shall be responsible to pay DMWW the full costs of such operation as provided in Article IV of this Agreement. DMWW's operation shall be at the sole risk of Waukee and Xenia and such parties shall have sole responsibility for any liability arising therefrom, except as provided in Article VII, Section 1 of this Agreement, and shall bear all risk of loss to such facilities.

7. Connection to DMWW Core Network. The Waukee/Xenia booster station has an existing connection, to DMWW's Core Network transmission main. This connection is expected to remain in use following transfer of capacity as provided herein. A new metered connection to Waukee off the West Hickman Road Main will be needed and shall be constructed by Waukee at its sole cost and expense. A new metered connection to Xenia off the West Hickman Road Main will be needed and shall be constructed by Waukee at its sole cost and expense. Flows from these meters will be billed directly to each entity by DMWW.

Article III – Ownership and Use of Facilities

1. Shared Ownership. Xenia and Waukee shall have, and shall maintain, shared ownership of the existing facilities as set forth in Part 1 and Part 2, with capacity rights as allocated in Section 2 and 3 of Article III of this Agreement. Facilities constructed under Part 3 will include a chloramination facility, flow meter and control valve located at 1512 W. Hickman Road which

will be wholly owned by Xenia and a control valve and a flow meter also located at 1512 W. Hickman Road which will be owned by Waukee. Waukee's ownership interest shall be equal to 4% of the West Hickman Main and 12% of the Waukee/Xenia booster station located at the L.P. Moon Site. Xenia and Waukee shall bear all risk of loss to the Waukee/Xenia Service Facilities and shall insure or self-insure such interests separately or jointly as they may separately determine. DMWW shall have no ownership interests in such facilities and no liability for operation or loss thereof, except as otherwise provided herein.

2. Xenia Capacity Rights. Xenia shall have the right to use up to 9.68 million gallons per day, or an average of 6,722 gallons per minute, of the capacity in the existing 24" West Hickman Road Main. Xenia shall have the right to use up to 2.9 million gallon per day, or an average of 2,014 gallons per minute in the Xenia booster station located at the L.P. Moon Site.

3. Waukee Capacity Rights. Waukee shall have the right to use up to 400,000 gallon per day, or an average of 278 gallons per minute, of the capacity in the existing West Hickman Road Main and the Xenia booster station located at the L.P. Moon Site.

4. Documentation. The capacity rights of Waukee and Xenia under this Agreement shall be documented by this Agreement. All rights shall be transferred free and clear of all liens and encumbrances.

Article IV – Payment for Capacity, Improvements, and Operation and Maintenance Costs.

1. Sale of Capacity under Part 1 and Part 2. Waukee shall pay Xenia \$121,216.67 for 400,000 gallons per day of capacity in the existing 24" West Hickman Road Main and \$135,686.11 for 400,000 gallons per day of capacity in the Xenia booster station located at the L.P. Moon Site as provided herein. Such Payment shall be made within thirty (30) days of the Effective Date.

2. Costs under Part 3 and Part 4. Waukee shall incur and pay the full costs of the Part 3 improvements. DMWW shall incur the costs of the Part 4 work and improvements as provided in Exhibit B-4. Waukee shall pay DMWW for the full actual costs incurred by DMWW for the improvements constructed by DMWW. Full actual costs to include design, materials, equipment contractor work, and fully loaded labor directly provided by DMWW as reflected in DMWW's final accounting. The preliminary engineer's estimate of the cost for Part 3 and 4 of the Waukee/Xenia Joint System Facilities is \$1,505,000 in new infrastructure, plus, \$256,902.78 in additional costs for transfer of capacity rights, further broken down as outlined in Exhibits B-1 through B-4. The amounts shown are estimates only. The actual costs incurred as provided herein shall govern the required payments, rather than any existing or subsequent engineering estimate. DMWW will issue invoices to Waukee for the actual costs it incurs and Waukee shall pay such invoices within thirty (30) days of receipt.

3. Documentation. Waukee and DMWW will provide documentation to Xenia evidencing the contract awards, project work progresses, and when the Part 3 and Part 4 projects are completed.

4. Future Expansion. The cost of any future expansions to meet increased capacities beyond the current capacities of the Waukee/Xenia Joint System Facilities shall be borne by Waukee and/or Xenia based on their proportionate share of the needed expansion.

5. Ongoing Operation and Maintenance of Booster Pump Station. The costs of operation, maintenance, and any future improvements of the Waukee/Xenia booster station located at the L.P. Moon Site, shall be borne by Waukee and Xenia based on their proportionate use of the facility at the time of the expense. These costs will be initially incurred and tracked by DMWW and aggregated quarterly. DMWW will invoice Waukee and Xenia quarterly for its proportionate costs and such parties shall pay such invoice by the due date identified on the invoice.

6. Ongoing Operation and Maintenance of West Hickman Road Main. DMWW shall operate and maintain the West Hickman Road Main. Any such costs, including costs incurred for main breaks will be initially incurred and tracked by DMWW and aggregated quarterly. DMWW will invoice Waukee and Xenia quarterly for their proportionate share of any such costs based on their capacity in the main and Waukee and Xenia shall pay such invoices by the due date identified on the invoice.

7. Ongoing Operation and Maintenance of Waukee Meter Pit and Control Valve. DMWW shall operate and maintain the Waukee meter pit and control valve. The costs of operation and maintenance will be initially incurred and tracked by DMWW and aggregated quarterly. DMWW will invoice Waukee quarterly for those costs and Waukee shall pay such invoices by the due date identified on the invoice.

Article V – Financing

1. Funding Sources. Funding hereunder shall be provided by the regular sources of revenue and financing of the parties as required for each party to meet its obligations hereunder, and all such funding shall be separately included within the respective regular budgets of Waukee, Xenia, and DMWW.

2. Responsibility. Except as otherwise explicitly provided in Article IV, Sections 1 and 2 of this Agreement as to contract payments by Waukee to Xenia and DMWW, and Article IV, Section 4 of this Agreement as to Ongoing Operations and Maintenance, each party shall be solely responsible for funding its own operations hereunder.

Article VI – Term and Termination of Agreement

1. This Agreement shall commence on the Effective Date and shall terminate on the date of the termination of the 2005 Wholesale Master Agreement. This agreement may be extended by and for any party that agrees to an extension.

2. Termination. In the event any party determines that the other has defaulted in the performance of its obligations hereunder, the aggrieved party may declare that default has occurred and give notice thereof to the defaulting party. Notice of default shall be given in writing, shall specify the nature of the default and the provision of the Agreement involved, and shall specify what action is required of the defaulting party to correct the default. The defaulting party shall

have 30 business days from the date of its receipt of the notice of default to correct the default. If at the end of said 30-day period, the default has not, in the opinion of the aggrieved party, been corrected, that party may thereupon pursue its remedies as provided herein. In the event of default by one party in the performance of any material provision of this Agreement, the other party may, at its option, after declaring default and giving notice thereof, terminate this Agreement with prospective effect or seek specific performance of its provisions. A party seeking termination of this Agreement due to a default in performance by the other party shall also be entitled to seek damages for such default.

Article VII- General Provisions.

1. **Liability; Indemnification.** Each party ("Indemnifying Party"), to the fullest extent permitted by law, hereby agrees to indemnify, defend, pay on behalf of, and hold harmless the other party, and its elected officials, its appointed officials, agents, employees and volunteers, and others working on behalf of such party ("Indemnitees"), against any and all claims, demands, suits, damages or losses, together with any and all outlay and expense connected therewith including, but not limited to, attorneys' fees and court costs, that may be asserted or claimed against, recovered from or suffered by the Indemnitees by reason of any injury or loss arising out of any wrongful act or omission of the Indemnifying Party, including, but not limited to, bodily injury or death, property damage, including loss of use thereof, and economic damages that arise out of or are in any way connected to this Agreement. No party shall have any right of indemnity for damages or claims proximately caused by its own negligent or intentionally wrongful acts. Each party's agreements and obligations as set forth in this Paragraph are applicable for the duration of and following expiration or termination of this Agreement, regardless of the manner of termination, and notwithstanding other provisions of this Agreement.

2. **Insurance.** Each party shall procure and maintain its own insurance. Waukee shall require all contractors and subcontractors to have and maintain bonds and insurance as set forth in applicable contract documents.

3. **Notices and Invoices.** All notices, invoices and reimbursement requests which the parties are authorized or required to give one another pursuant to this Agreement shall be in writing and may be personally delivered or sent by ordinary mail to the addresses hereafter provided. Mailed notices and invoices shall be deemed to be received by the party to whom directed when they are postmarked. Such notices and invoices shall be delivered or mailed to the following persons at the addresses listed:

Notices to Waukee:

Public Works Director
City of Waukee
805 University Avenue
Waukee, Iowa 50263

Notices to Xenia:

CEO/General Manager
Xenia Rural Water District
23998 141st Street
PO Box 39
Bouton, Iowa 50039

Notices to DMWW:

General Manager and Chief Executive Officer
Des Moines Water Works
2201 George Flag Parkway
Des Moines, IA 50321-1190

4. Interpretation. If any section, provision or article of this Agreement shall be found to be invalid or unconstitutional, such finding shall not affect the validity of the Agreement as a whole or any section, provision or article thereof not found to be invalid or unconstitutional.

5. Dispute Resolution.

(a) The parties agree that any disputes arising between them with regard to the design of project improvements, with regard to the final acceptance of project improvements, or with regard to the final payment to a project contractor, as hereinabove more particularly provided, shall be submitted to arbitration. A request for arbitration must be in the form of a written notice requesting arbitration. Such notice shall identify each disputed matter to be submitted to arbitration. In the absence of agreement by the parties to the contrary, the question or questions to be arbitrated shall be those specified in the notice requesting arbitration.

(b) If the parties agree, there may be one arbitrator. If they fail to agree on a single arbitrator, there shall be three arbitrators, one named in writing by the party requesting arbitration, one named in writing by the other party, and the third chosen by the first two arbitrators so chosen.

(c) The party requesting arbitration shall choose an arbitrator within ten business days following its demand. Its failure to do so shall be deemed a waiver of its request for arbitration. The other party shall name its arbitrator within ten business days following the receipt of notice of the naming of the requesting party's arbitrator. The two arbitrators first chosen shall name the third arbitrator within ten business days following the selection of the second arbitrator. Should the two arbitrators first chosen fail to appoint a third arbitrator, application shall be made to the President of the Dallas County Bar Association by the party requesting arbitration to name such arbitrator. Should either party refuse or neglect to supply the arbitrators with any papers or information demanded in writing by the arbitrators, the arbitrators are empowered to proceed ex parte.

(d) No one shall be qualified to act as an arbitrator if service in such role would create a conflict of interest. Each arbitrator selected shall be qualified by experience and knowledge of the matter to be submitted to arbitration.

(e) If there be one arbitrator, the decision shall be binding; if three, the decision of any two shall be binding. The decision may be impeached only for fraud or mistake. Such decision shall be a condition precedent to any right of legal action.

(f) The costs of arbitration shall be paid by the party requesting arbitration if it does not prevail in said arbitration proceedings. If the party requesting arbitration prevails in the arbitration proceedings, the cost of arbitration shall be shared equally by the parties.

(g) The decision of the arbitrators shall be in writing and it shall not be open to objection on account of the form of the proceeding or the award.

6. Entire Agreement. This Agreement and the other 28E Agreements referred to herein supersede all oral or written proposals and communications related to this Agreement between the parties. Each party acknowledges that such party has not been induced to enter this Agreement by any representations or statements oral or written, not contained in this Agreement. This Agreement may only be amended by a written instrument signed by authorized representatives of both parties.

7. Governing Law. This Agreement shall be construed, both as to validity and performance, and shall be enforced in accordance with, and governed by, the laws of the State of Iowa.

8. No Partnership, Joint Venture or Joint Authority. Nothing in this Agreement shall be construed as creating or constituting the relationship of the partnership, joint venture or any kind or agent/principal relationship between the parties hereto. No party, unless otherwise specifically provided for herein, has the authority to enter into any agreement or create an obligation or liability on behalf of, in the name of, or binding upon, the other party to this Agreement.

9. Force Majeure. No party shall be liable for any failure to perform any or all of the provisions of this Agreement if and to the extent that performance has been delayed or prevented by reason of any cause beyond the reasonable control of such party. The expression "cause beyond the reasonable control" shall be deemed to include, but not be limited to: acts, regulations, laws, or restraints imposed by any governmental body; wars, hostilities, sabotage, riots, or commotions; acts of God; or fires, frost, storms, or lightning.

10. No Waiver. No waiver of any breach of any one of the agreements, terms, conditions or covenants of this Agreement by any party shall be deemed to imply or constitute a waiver of any other agreement, term, condition, or covenant of this Agreement. The failure of any party to insist on strict performance of any agreement, term, condition, or covenant, herein set

forth, shall not constitute or be construed as a waiver of the rights thereafter to enforce any other default of such agreement, term, condition, or covenant.

11. No Assignment. Except as otherwise provided herein, this Agreement shall not be sold, assigned, transferred or conveyed in any respect by either party without prior written approval of the other parties. This Agreement shall remain binding upon the successors of the parties.

12. Headings. Headings herein are for convenience of reference only and shall in no way affect interpretation of the Agreement.

13. Partial Invalidity. If any provision or provisions of this Agreement shall be held to be invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired thereby.

14. Counterparts. This Agreement may be executed in multiple counterparts, each of which so executed shall be deemed to be an original.

15. Receipt of Copy. Each of the parties to this Agreement acknowledges receipt of a fully executed copy of this Agreement and all attachments thereto.

IN WITNESS THEREOF, the parties have caused this Agreement to be executed in counterparts, each of which shall be considered an original.

[SIGNATURE PAGES TO FOLLOW]

CITY OF WAUKEE, IOWA

By: _____

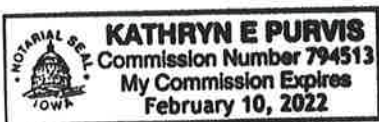
William F. Peard
William F. Peard, Mayor

Attest: _____

Rebecca D. Schuett
Rebecca D. Schuett, City Clerk

STATE OF IOWA)
) SS:
COUNTY OF DALLAS)

On this 5 day of February, 2019 before me, the undersigned, a Notary Public in and for the State of Iowa, personally appeared William F. Peard and Rebecca D. Schuett, to me personally known, and, who, being by me duly sworn, did say that they are Mayor and City Clerk, respectively, of the CITY OF WAUKEE, IOWA; that the seal affixed to the foregoing instrument is the corporate seal of the City, and that the instrument was signed and sealed on behalf of the City, by authority of its City Council, as contained in the Resolution adopted by the City Council, under Roll Call No. 14-550 of the City Council on the 4th day of February, 2019, and that William F. Peard and Rebecca D. Schuett acknowledged the execution of the instrument to be their voluntary act and deed and the voluntary act and deed of the City by it voluntarily executed.



Kathryn E Purvis
Notary Public in and for the State of Iowa

XENIA RURAL WATER DISTRICT

By: _____

Troy Wilson, Vice Chair

Attest: _____

Michael Schrum, Secretary

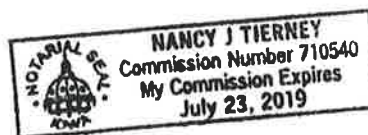
STATE OF IOWA)

COUNTY OF ~~POLK~~ ^{Dallas})

SS:)

On this 28th day of February, 2019 before me, the undersigned, a Notary Public in and for the State of Iowa, personally appeared Troy Wilson and Michael Schrum, to me personally known, and, who, being by me duly sworn, did say that they are Board Vice Chair and Board Secretary, respectively of XENIA RURAL WATER DISTRICT; that the seal affixed to the foregoing instrument is the corporate seal of Xenia, and that the instrument was signed and sealed on behalf of Xenia, by authority of the Board of Xenia Rural Water district, as contained in the Resolution adopted by the Board, under Motion # 021905 of the Board on the day of 28th February, 2019, and that Troy Wilson and Michael Schrum acknowledged the execution of the instrument to be their voluntary act and deed and the voluntary act and deed of the Board by it voluntarily executed.

Nancy J. Tierney
Notary Public in and for the State of Iowa



BOARD OF WATER WORKS TRUSTEES
OF THE CITY OF DES MOINES, IOWA

By:

Diane C. Munns

Diane C. Munns, Board Chairperson

Attest:

William G. Stowe

William G. Stowe, General Manager and CEO

STATE OF IOWA)

SS:

COUNTY OF POLK)

On this 26th day of February, 2019, before me, a Notary Public in and for the State of Iowa, personally appeared Diane C. Munns and William G. Stowe, to me personally known, and, who being by me duly sworn, did say that they are the Board Chairperson and the Chief Executive Officer and General Manager of the BOARD OF WATER WORKS TRUSTEES OF THE CITY OF DES MOINES, IOWA, that no seal has been procured by the entity; that the instrument was signed on behalf of the entity by authority of its Board as contained in the resolution adopted by the Board on the 26th day of February, 2019, and that Diane C. Munns and William G. Stowe acknowledged the execution of the instrument to be the voluntary act and deed of the BOARD OF WATER WORKS TRUSTEES OF THE CITY OF DES MOINES, IOWA, by it and by them voluntarily executed.

Michelle L. Watson

Notary Public in and for the State of Iowa



[illegible]

Exhibit B-1

Part 1 – West Hickman Road Water Main Capacity Sale and Percent Ownership

Xenia shall provide 400,000 gallons per day of capacity rights in the existing 24" water main along West Hickman Road from the booster station located at the L.P. Moon Site to T Avenue to Waukee.

Flow Capacity of 24-inch

Pipe:

7,000 gpm

Revised 24" water main

value

\$3,054,628.45

Project Timing: Construction anticipated to begin Q1 of 2019 and be completed Q2 2019

	Gallons Per Minute (gpm)	Share of Ownership	Cost
Waukee	278	4%	\$121,216.67
Xenia	6,722	96%	\$2,933,411.78
Totals	7,000	100%	\$3,054,628.45

Exhibit B-2

Part 2 – Waukee/Xenia Booster Station Capacity Sale and Percent Ownership

Xenia shall provide 400,000 gallons per day of capacity rights in the booster station located at the L.P. Moon Site to Waukee

Current Booster Station	
Capacity	2,300 gpm
Revised Booster Station	
Value	\$1,123,479.82

Project Timing: Construction anticipated to begin Q1 of 2019 and be completed Q2 2019

	Gallons Per Minute (gpm)	Share of Ownership	Cost
Waukee	278	12%	\$135,686.11
Xenia	2,022	88%	\$987,793.71
Totals	2,300	100%	\$1,123,479.82

Exhibit B-3

Part 3 – Chemical Feed Facility and Meter Pits Waukee/Xenia Joint System Facilities

Waukee shall design and construct all new facilities required to make the Waukee/Xenia Joint System operate including, chloramination and chemical feed facility, a new control valve to control flow into Waukee, a new meter pit for metering water into Waukee, a new control valve to control flow to Xenia, a new meter pit for metering of water to Xenia, along with analyzers, telemetry and controls at these facilities.

	Share of Cost	Estimated Cost
Waukee	100%	\$1,395,000.00
Xenia	0%	\$0
Totals	100%	\$1,395,000.00

Exhibit B-4

Part 4 – Chemical System at L.P. Moon Waukee/Xenia Joint System Facilities

Xenia shall mothball the current chemical feed systems in the Clive Booster Station. DMWW shall design and construct a chlorine feed system from the L. P. Moon Pump Station that will be piped over to the Waukee/Xenia booster station to provide the opportunity to control the chlorine residual leaving the Waukee/Xenia booster station. Waukee pay costs associated with these improvements.

	Share of Cost	Cost of Part 3
Waukee	100%	\$110,000.00
Xenia	0%	\$0
Totals	100%	\$110,000.00

Exhibit C

Supplement Number 2 to Adoption Annex

This Supplement Number 2 to Adoption Annex is executed effective as of February 28, 2019, on behalf of the Board of Water Works Trustees of the City of Des Moines, Iowa ("DMWW") and the City of Waukee ("Waukee"), and shall form a part of the Water Service Agreement dated July 26, 2005, among DMWW and Waukee (the "Wholesale Water Service Master Agreement") for the purpose of adopting by reference the terms and conditions whereby DMWW operates and maintains the jointly owned booster station and feeder main as outlined in a 28E Agreement dated February 28, 2019 among Waukee, Xenia, and Des Moines Water Works.

This Supplement No. 2 to Adoption Annex shall be effective as of the date set forth above and shall form a part of the Adoption Annex and the Wholesale Water Service Master Agreement from and after such date.

BOARD OF WATER WORKS TRUSTEES
OF THE CITY OF DES MOINES, IOWA

By: Diane C. Munns
Diane C. Munns, Chairperson

ATTEST: William G. Stowe
William G. Stowe, CEO and General Manager

CITY OF WAUKEE, IOWA

By: William F. Peura
William F. Peura, Mayor

ATTEST: Rebecca D. Schuett
Rebecca D. Schuett, city clerk

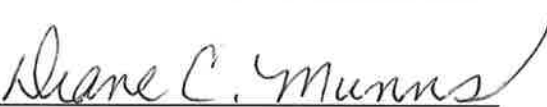
Exhibit D

Supplement Number 4 to Adoption Annex

This Supplement Number 4 to Adoption Annex is executed effective as of February 28, 2019, on behalf of the Board of Water Works Trustees of the City of Des Moines, Iowa ("DMWW") and Xenia Rural Water District ("Xenia"), and shall form a part of the Water Service Agreement dated July 26, 2005, among DMWW and Xenia (the "Wholesale Water Service Master Agreement") for the purpose of adopting by reference the terms and conditions whereby DMWW operates and maintains the jointly owned booster station and feeder main as outlined in a 28E Agreement dated February 28 2019 among Waukee, Xenia, and Des Moines Water Works.

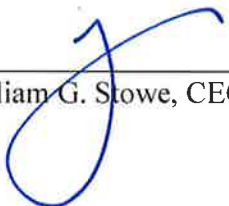
This Supplement No. 4 to Adoption Annex shall be effective as of the date set forth above and shall form a part of the Adoption Annex and the Wholesale Water Service Master Agreement from and after such date.

BOARD OF WATER WORKS TRUSTEES
OF THE CITY OF DES MOINES, IOWA

By: 
Diane C. Munns, Chairperson

XENIA RURAL WATER DISTRICT

By: 
Troy Wilson, Vice Chair

ATTEST: 
William G. Stowe, CEO and General Manager

ATTEST: 
Michael Schrum, Secretary

Iowa Secretary of State
321 East 12th Street
Des Moines, IA 50319
sos.iowa.gov



FILED

Filing Date: **03/09/2022 03:29 PM**
Filing Number: **M514595**

28E Agreement

	Full Legal Name	Organization Type	County
Party 1	Board of Water Works Trustees - City of Des Moines	Other	Polk
Party 2	Xenia Rural Water District	Other	Dallas
Party 3	City of Waukee, Iowa	City	Dallas

Participants

310 - Water System

Service Type

To undertake certain enhancements to the water systems as describe herein in order to provide service to Waukee and Xenia from facilities currently owned by Xenia.

Purpose

06/10/2045

Duration

M514595

28E Agreement File Number is

First-Amendment-Waukee-Xenia-Joint-Facilities-28E_Fully-Executed.pdf

Upload Scanned Agreement

Contact Person: (Optional)

Michelle

Contact First Name

Watson

Contact Last Name

ENG Svcs Admin Assistant

Job Title

Engineering

Department

watson@dmww.com

Email Address 1

515-283-8730

Phone Number

**FIRST AMENDMENT TO 28E AGREEMENT BY AND BETWEEN
THE CITY OF WAUKEE, IOWA
XENIA RURAL WATER DISTRICT,
AND THE BOARD OF WATER WORKS TRUSTEES OF THE
CITY OF DES MOINES, IOWA**

This First Amendment of 28E Agreement (hereinafter "this Agreement") is made and entered into by and among the CITY OF WAUKEE, IOWA ("Waukee"), XENIA RURAL WATER DISTRICT ("Xenia"), and the BOARD OF WATER WORKS TRUSTEES OF THE CITY OF DES MOINES, IOWA ("DMWW") (each a "party" and collectively "the parties") as of the dates set forth below.

PREAMBLE

WITNESSETH:

WHEREAS, DMWW, Waukee, and Xenia are parties to an agreement established pursuant to Chapter 28E, Iowa Code to provide for the ownership, operation, use and maintenance of the Waukee/Xenia Joint System Facilities that has been filed with the Iowa Secretary of State on April 3, 2019 as Agreement Number M511603 (the "Waukee-Xenia-DMWW 28E Agreement").

WHEREAS, as the project has developed, the parties have ascertained that certain specifications as to location of facilities need to be corrected and the parties desire to modify some of the provisions of the Waukee-Xenia-DMWW 28E Agreement accordingly in the respects and particulars provided herein.

NOW THEREFORE, in consideration of the mutual undertakings hereby provided Waukee, Xenia, and DMWW hereby agree that the Waukee-Xenia-DMWW 28E Agreement shall be amended as follows:

1. Preamble paragraphs four and five of the Waukee-Xenia-DMWW 28E Agreement is amended by deleting such in their entirety and replacing them with the following:

WHEREAS, Xenia desires to sell to Waukee capacity in its existing 24" feeder main located along West Hickman Road from DMWW's LP Moon facility (the "L.P. Moon Site") to inlet side of Chemical Feed Facility and Meter Pits to be constructed east of T Avenue and capacity in its existing booster station located at the L.P. Moon Site. Following such sale Waukee and Xenia will jointly own this facility.

WHEREAS, Waukee and Xenia desire that DMWW assume responsibility for operation and maintenance of the jointly owned Waukee/Xenia booster station located at the L.P. Moon Site and the 24" feeder main to from the L.P. Moon Site to inlet side of Chemical Feed Facility and Meter Pits to be constructed east of T Avenue. The cost of operation, maintenance and improvements to this station will be paid by Waukee and Xenia to DMWW according to the provisions of this agreement.

2. Part 1 of Section 2 of Article I of the Waukee-Xenia-DMWW 28E Agreement is amended by deleting such Part in its entirety and replacing it with the following:

Part 1 – The sale by Xenia to Waukee of the right of use of 400,000 gallons per day of capacity in the existing 24” water main along West Hickman Road from the L.P. Moon site to inlet side of Chemical Feed Facility and Meter Pits to be constructed east of T Avenue. Following the sale Xenia and Waukee shall jointly own this facility.

3. Part 2 of Article II of the Waukee-Xenia-DMWW 28E Agreement is amended by deleting such Part in its entirety and replacing it with the following:

2. Part 1 Responsibilities. Xenia shall provide 400,000 gallons per day of capacity rights in its existing 24” water main along West Hickman Road from the Xenia Booster Station located at the L.P. Moon Site to inlet side of Chemical Feed Facility and Meter Pits to be constructed east of T Avenue (the “West Hickman Road Main”) to Waukee in exchange for payment computed as set forth in Exhibit B-1 and as provided in Article IV of this Agreement. Such payment shall be made as provided in Article IV of this Agreement.

4. Exhibit B-1 of the Waukee-Xenia-DMWW 28E Agreement is amended by deleting Exhibit B-1 in its entirety and replacing it with the attached Exhibit B-1.

5. This First Amendment shall be effective as of the date of its filing with the Iowa Secretary of State. Except as so amended, the Waukee-Xenia-DMWW 28E Agreement shall remain in full force and effect.

IN WITNESS THEREOF, the parties have caused this First Amendment to 28E Agreement to be executed in counterparts, each of which shall be considered an original.

SIGNATURE PAGES TO FOLLOW

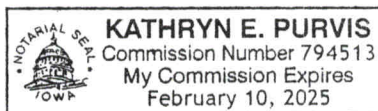
CITY OF WAUKEE, IOWA

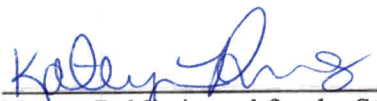
By: 
Courtney Clarke, Mayor

Attest: 
Rebecca D. Schuett, City Clerk

STATE OF IOWA)
) SS:
COUNTY OF DALLAS)

On this 9 day of March, 2022 before me, the undersigned, a Notary Public in and for the State of Iowa, personally appeared Courtney Clarke and Rebecca D. Schuett, to me personally known, and, who, being by me duly sworn, did say that they are Mayor and City Clerk, respectively of the CITY OF WAUKEE, IOWA; that the seal affixed to the foregoing instrument is the corporate seal of the City, and that the instrument was signed and sealed on behalf of the City, by authority of its City Council, as contained in the Resolution adopted by the City Council, under Roll Call No. 2022-045 of the City Council on the day of March, 2022, and that Courtney Clarke and Rebecca D. Schuett acknowledged the execution of the instrument to be their voluntary act and deed and the voluntary act and deed of the City by it voluntarily executed.




Notary Public in and for the State of Iowa

XENIA RURAL WATER DISTRICT

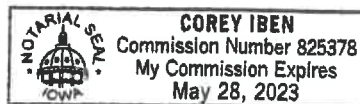
By: Dan Lovett
Dan Lovett, Chair

Attest: Peter Jensen
Peter Jensen, Secretary

STATE OF IOWA)
) SS:
COUNTY OF POLK)

On this 24th day of February, 2022 before me, the undersigned, a Notary Public in and for the State of Iowa, personally appeared Dan Lovett and Peter Jensen, to me personally known, and, who, being by me duly sworn, did say that they are Board Vice Chair and Board Secretary, respectively of XENIA RURAL WATER DISTRICT; that the seal affixed to the foregoing instrument is the corporate seal of Xenia, and that the instrument was signed and sealed on behalf of Xenia, by authority of the Board of Xenia Rural Water district, as contained in the Resolution adopted by the Board, under Motion # 022210 of the Board on this 24th day of February, 2022, and that Dan Lovett and Peter Jensen acknowledged the execution of the instrument to be their voluntary act and deed and the voluntary act and deed of the Board by it voluntarily executed.

Corey Iben
Notary Public in and for the State of Iowa



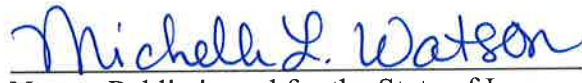
BOARD OF WATER WORKS TRUSTEES
OF THE CITY OF DES MOINES, IOWA

By: 
Graham Gillette, Board Chairperson

Attest: 
Ted Corrigan, CEO and General Manager

STATE OF IOWA)
) SS:
COUNTY OF POLK)

On this 23rd day of February, 2022, before me, a Notary Public in and for the State of Iowa, personally appeared Graham Gillette and Ted Corrigan, to me personally known, and, who being by me duly sworn, did say that they are the Board Chairperson and the Chief Executive Officer and General Manager of the BOARD OF WATER WORKS TRUSTEES OF THE CITY OF DES MOINES, IOWA, that no seal has been procured by the entity; that the instrument was signed on behalf of the entity by authority of its Board as contained in the resolution adopted by the Board on the 22nd day of February, 2022, and that Graham Gillette and Ted Corrigan acknowledged the execution of the instrument to be the voluntary act and deed of the BOARD OF WATER WORKS TRUSTEES OF THE CITY OF DES MOINES, IOWA, by it and by them voluntarily executed.


Notary Public in and for the State of Iowa

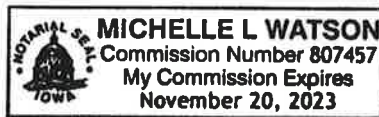


Exhibit B-1 **Part 1 – West Hickman Road Water Main** **Capacity Sale and Percent Ownership**

Xenia shall provide 400,000 gallons per day of capacity rights in the existing 24" water main along West Hickman Road from the booster station located at the L.P. Moon Site to inlet side of Chemical Feed Facility and Meter Pits to be constructed east of T Avenue to Waukee.

Flow Capacity of 24-inch	
Pipe:	7,000 gpm
Revised 24" water main	
value	\$3,054,628.45

Project Timing: Construction anticipated to begin Q1 of 2019 and be completed Q2 2019

	Gallons Per Minute (gpm)	Share of Ownership	Cost
Waukee	278	4%	\$121,216.67
Xenia	6,722	96%	\$2,933,411.78
Totals	7,000	100%	\$3,054,628.45

**SECOND AMENDMENT TO 28E AGREEMENT BY AND BETWEEN
THE CITY OF WAUKEE, IOWA,
XENIA RURAL WATER DISTRICT,
AND THE BOARD OF WATER WORKS TRUSTEES OF THE
CITY OF DES MOINES, IOWA**

This Second Amendment of the 28E Agreement (hereinafter "Agreement") is made and entered into by and among the CITY OF WAUKEE, IOWA ("Waukee"), XENIA RURAL WATER DISTRICT ("Xenia"), and the BOARD OF WATER WORKS TRUSTEES OF THE CITY OF DES MOINES, IOWA ("DMWW") (each a "party" and collectively "the parties") as of the dates set forth below.

PREAMBLE

WITNESSETH:

WHEREAS, DMWW, Waukee, and Xenia are parties to an Agreement established pursuant to Chapter 28E, Iowa Code to provide for the ownership, operation, use and maintenance of the Waukee/Xenia Joint System Facilities that has been filed with the Iowa Secretary of State on April 3, 2019 as Agreement Number M511603 (the "Waukee-Xenia-DMWW 28E Agreement").

WHEREAS, DMWW, Waukee, and Xenia are parties to the First Amendment to Agreement established pursuant to Chapter 28E, Iowa Code to provide for the ownership, operation, use and maintenance of the Waukee/Xenia Joint System Facilities that has been filed with the Iowa Secretary of State on March 9, 2022 as Agreement Number M514595 (the "First Amendment to the Waukee-Xenia-DMWW 28E Agreement").

WHEREAS, the parties desire to modify some of the provisions of the Waukee-Xenia-DMWW 28E Agreement accordingly in the respects and particulars provided herein.

NOW THEREFORE, in consideration of the mutual undertakings hereby provided, Waukee, Xenia, and DMWW hereby agree that the Waukee-Xenia-DMWW 28E Agreement shall be amended as follows:

1. Nothing in this Agreement or the Waukee-Xenia-DMWW 28E Agreement modifies or changes the total purchase capacity owned by Waukee or Xenia under separate agreements between each entity and DMWW. This Agreement only addresses ownership of flow rights through the Waukee/Xenia Joint System Facilities.
2. Part 1 of Section 2 of Article I of the Waukee-Xenia-DMWW 28E Agreement is amended by deleting such Part in its entirety and replacing it with the following:

Part 1 – The sale by Xenia to Waukee of the right of use approximately 600 gallons per minute and a maximum of 864,000 gallons per day, when available, of capacity in the existing 24" water main along West Hickman Road from the L.P. Moon site to the inlet side

of the Chemical Feed Facility and Meter Pits to be constructed east of T Avenue. Following the sale Xenia and Waukee shall jointly own this facility.

3. Sections 2 and 3 of Article II of the Waukee-Xenia-DMWW 28E Agreement is amended by deleting such Part in its entirety and replacing it with the following:

2. Part 1 Responsibilities. Xenia shall provide approximately 600 gallons per minute and a maximum of 864,000 gallons per day, when available, of capacity rights in its existing 24" water main along West Hickman Road from the Xenia Booster Station located at the L.P. Moon Site to inlet side of the Chemical Feed Facility and Meter Pits to be constructed east of T Avenue (the "West Hickman Road Main") to Waukee in exchange for payment computed as set forth in Exhibit B-1 and as provided in Article IV of this Agreement. Such payment shall be made as provided in Article IV of this Agreement.

3. Part 2 Responsibilities. Xenia shall provide approximately 600 gallons per minute and a maximum of 864,000 gallons per day, when available, of capacity rights in its existing booster station located at the L.P. Moon Site to Waukee in exchange for payment computed as set forth in Exhibit B-2 and as provided in Article IV of this Agreement. Such payment shall be made as provided in Article IV of this Agreement.

4. Sections 1, 2 and 3 of Article III of the Waukee-Xenia-DMWW 28E Agreement is amended by deleting such Part in its entirety and replacing it with the following:

1. Shared Ownership. Xenia and Waukee shall have, and shall maintain, shared ownership of the existing facilities as set forth in Part 1 and 2, with capacity rights as allocated in Section 2 and 3 of Article III of this Agreement. Facilities constructed under Part 3 will include a chloramination facility, flow meter, and control valve located at 1512 W. Hickman Road which will be wholly owned by Xenia and a control valve and flow meter also located at 1512 W. Hickman Road which will be owned by Waukee. Waukee's ownership interest shall be equal to 8.6% of the West Hickman Main and 26.1% of the Waukee/Xenia Booster Station located at the L.P. Moon Site. Xenia and Waukee shall bear all risk of loss to the Waukee/Xenia Service Facilities and shall insure or self-insure such interests separately or jointly as they may separately determine. DMWW shall have no ownership interests in such facilities and no liability for operation or loss thereof, except as otherwise provided herein.

2. Xenia Capacity Rights. Xenia shall have the right to use up to 9.216 million gallons per day, or an average of 6,400 gallons per minute, of the capacity in the existing 24" West Hickman Road Main. Xenia shall have the right to use up to 2.448 million gallons per day, or an average of 1,700 gallons per minute in the Waukee/Xenia Booster Station located at the L.P. Moon Site.

3. Waukee Capacity Rights. Waukee shall have the right to use up to 864,000 gallons per day, or an average of 600 gallons per minute, of the capacity in the existing

24" West Hickman Road Main. Waukee shall have the right to use up to 864,000 gallons per day, or an average of 600 gallons per minute in the Waukee/Xenia Booster Station located at the L.P. Moon Site.

In an emergency situation as determined by DMWW, Waukee shall have the right to use up to 1.728 million gallons per day, or an average of 1,200 gallons per minute, of the capacity in the existing 24" West Hickman Road Main. Waukee shall have the right to use up to 1.728 million gallons per day, or an average of 1,200 gallons per minute, of the capacity in the Waukee/Xenia Booster Station located at the L.P. Moon Site. During an emergency situation, Waukee's increased usage shall not negatively impact Xenia's water distribution and storage systems and shall not prevent Xenia from providing potable water service to their customers.

5. Section 1 of Article IV of the Waukee-Xenia-DMWW 28E Agreement is amended by deleting such Part in its entirety and replacing it with the following:
 1. Sale of Capacity under Part 1 and Part 2. Waukee shall pay Xenia \$261,781.66 for approximately 600 gallons per minute and a maximum of 864,000 gallons per day, when available, of capacity in the existing 24" West Hickman Road Main and \$293,228.23 for approximately 600 gallons per minute and a maximum of 864,000 gallons per day, when available, of capacity in the Xenia booster station located at the L.P. Moon Site as provided herein. Such Payment shall be made within thirty (30) days of the Effective Date. The Parties acknowledge that Waukee has already paid \$121,216.67 to Xenia for the 24" West Hickman Road Main, and Waukee has already paid \$135,686.11 for the Xenia Booster Station in the L.P. Moon Site, and that \$140,607.75 and \$158,461.13 are the remaining balances due for each site from Waukee to Xenia.
6. Exhibit B-1 of the Waukee-Xenia-DMWW 28E Agreement is amended by deleting Exhibit B-1 in its entirety and replacing it with the attached Exhibit B-1.
7. Exhibit B-2 of the Waukee-Xenia-DMWW 28E Agreement is amended by deleting Exhibit B-2 in its entirety and replacing it with the attached Exhibit B-2.
8. This Second Amendment shall be effective as of the date of its filing with the Iowa Secretary of State. Except as so amended, the Waukee-Xenia-DMWW 28E Agreement shall remain in full force and effect.

IN WITNESS THEREOF, the parties have caused this First Amendment to 28E Agreement to be executed in counterparts, each of which shall be considered an original.

[SIGNATURE PAGES TO FOLLOW]

CITY OF WAUKEE, IOWA

By: _____
Courtney Clarke, Mayor

Attest: _____
Rebecca D. Schuett, City Clerk

STATE OF IOWA)
) SS:
COUNTY OF DALLAS)

On this _____ day of _____, 2023 before me, the undersigned, a Notary Public in and for the State of Iowa, personally appeared Courtney Clarke and Rebecca D. Schuett, to me personally known, and, who, being by me duly sworn, did say that they are Mayor and City Clerk, respectively of the CITY OF WAUKEE, IOWA; that the seal affixed to the foregoing instrument is the corporate seal of the City, and that the instrument was signed and sealed on behalf of the City, by authority of its City Council, as contained in the Resolution adopted by the City Council, under Roll Call No. _____ of the City Council on the day of _____, 2023, and that Courtney Clarke and Rebecca D. Schuett acknowledged the execution of the instrument to be their voluntary act and deed and the voluntary act and deed of the City by it voluntarily executed.

Notary Public in and for the State of Iowa

XENIA RURAL WATER DISTRICT

By: _____
Dan Lovett, Chair

Attest: _____
Peter Jensen, Secretary

STATE OF IOWA)
) SS:
COUNTY OF POLK)

On this _____ day of _____, 2023 before me, the undersigned, a Notary Public in and for the State of Iowa, personally appeared Dan Lovett and Peter Jensen, to me personally known, and, who, being by me duly sworn, did say that they are Board Chair and Board Secretary, respectively of XENIA RURAL WATER DISTRICT; that the seal affixed to the foregoing instrument is the corporate seal of Xenia, and that the instrument was signed and sealed on behalf of Xenia, by authority of the Board of Xenia Rural Water district, as contained in the Resolution adopted by the Board, under Motion # _____ of the Board on the day of _____, 2023, and that Dan Lovett and Peter Jensen acknowledged the execution of the instrument to be their voluntary act and deed and the voluntary act and deed of the Board by it voluntarily executed.

Notary Public in and for the State of Iowa

BOARD OF WATER WORKS TRUSTEES
OF THE CITY OF DES MOINES, IOWA

By: _____
Andrea Boulton, Board Chairperson

Attest: _____
Ted Corrigan, CEO and General Manager

STATE OF IOWA)
) SS:
COUNTY OF POLK)

On this _____ day of _____, 2023, before me, a Notary Public in and for the State of Iowa, personally appeared Andrea Boulton and Ted Corrigan, to me personally known, and, who being by me duly sworn, did say that they are the Board Chairperson and the Chief Executive Officer and General Manager of the BOARD OF WATER WORKS TRUSTEES OF THE CITY OF DES MOINES, IOWA, that no seal has been procured by the entity; that the instrument was signed on behalf of the entity by authority of its Board as contained in the resolution adopted by the Board on the ____ day of _____, 2023, and that Andrea Boulton and Ted Corrigan acknowledged the execution of the instrument to be the voluntary act and deed of the BOARD OF WATER WORKS TRUSTEES OF THE CITY OF DES MOINES, IOWA, by it and by them voluntarily executed.

Notary Public in and for the State of Iowa

Exhibit B-1

Part 1 – West Hickman Road Water Main Capacity Sale and Percent Ownership

Xenia shall provide approximately 600 gallons per minute and a maximum of 864,000 gallons per day of capacity rights in the existing 24" water main along West Hickman Road from the booster station located at the L.P. Moon Site to inlet side of Chemical Feed Facility and Meter Pits to be constructed east of T Avenue to Waukee.

Flow Capacity of 24-inch Pipe 7,000 gpm

Revised 24" water main value \$3,054,628.45

	Gallons Per Minute (gpm)	Share of Ownership	Cost
Waukee	600	8.5714%	\$261,824.42
Xenia	6,400	91.4286%	\$2,792,804.03
Totals	<hr/> 7,000	100.0000%	\$3,054,628.45

Exhibit B-2

Part 2 – Waukee/Xenia Booster Station Capacity Sale and Percent Ownership

Xenia shall provide approximately 600 gallons per minute and a maximum of 864,000 gallons per day of capacity rights in the booster station located at L.P. Moon Site to Waukee.

Current Booster Station Capacity	2,300 gpm
Revised Booster Station Value	\$1,123,479.82

	Gallons Per Minute (gpm)	Share of Ownership	Cost
Waukee	600	26.1818%	\$294,147.24
Xenia	1,700	73.8182%	\$829,332.58
Totals	2,300	100.0000%	\$1,123,479.82



DES MOINES WATER WORKS
Board of Water Works Trustees

Agenda Item No. III-K
Meeting Date: December 19, 2023
Chairperson's Signature ☐ Yes ☒ No

AGENDA ITEM FORM

SUBJECT: Request Authorization to Reimburse the City of Des Moines for Water Main Relocations for the 16th Street Area Reconstruction and Trail Connection Project

SUMMARY:

- As part of the City of Des Moines' 16th Street Area Reconstruction and Trail Connection project, Des Moines Water Works will complete water main relocation due to conflicts with street grade changes and conflicts with proposed sanitary sewer and storm sewer.
- The City of Des Moines project includes road reconstruction, sanitary sewer replacement, storm sewer improvements, trail construction, and sidewalk improvements.
- Construction for this project is anticipated to begin in Spring 2024, with water main work being completed in the 2024 construction season.
- Based upon the unit price bid for the estimated quantities for this contract, the cost for the water main relocation portion of this City of Des Moines project is \$532,306.52. Shekar Engineering, P.L.C., from Des Moines, IA, will be the contractor for this project.

FISCAL IMPACT:

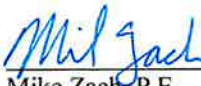
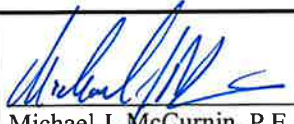

Funds for this project will come from the 2024 Des Moines Water Main Replacement Budget.

RECOMMENDED ACTION:

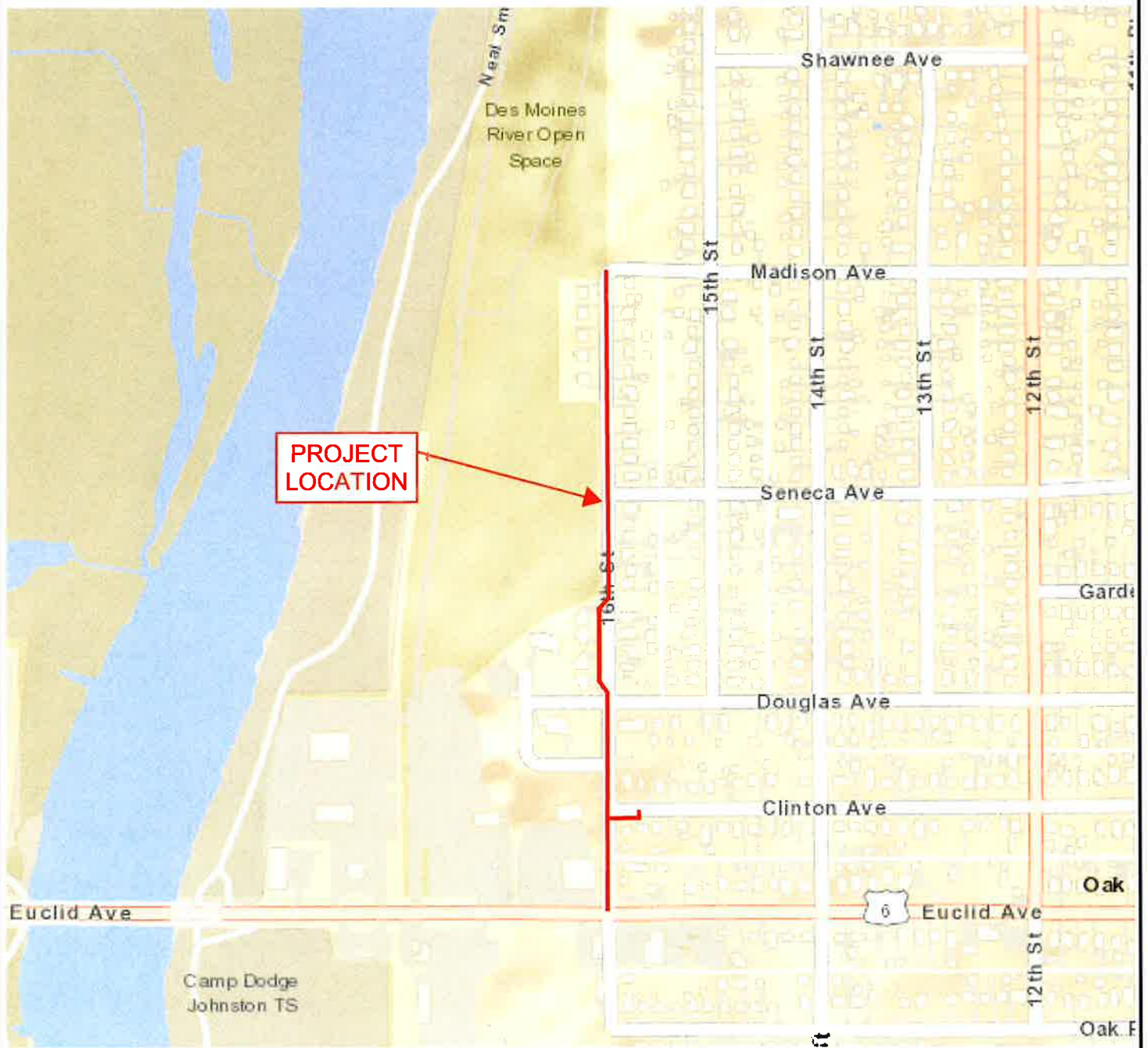
Authorize staff to reimburse the City of Des Moines for water main relocations included in the 16th Street Area Reconstruction and Trail Connection project.

BOARD REQUIRED ACTION:

Motion to authorize staff to reimburse the City of Des Moines for water main relocations included in the 16th Street Area Reconstruction and Trail Connection project.

 Mike Zach, P.E. Project Manager	 Michael J. McCurnin, P.E. Director of Engineering Services	 Ted Corrigan, P.E. CEO and General Manager
12/14/23 (date)	12/14/23 (date)	12/14/23 (date)

Attachments: Site Map



NOT TO SCALE

Des Moines
Water Works
Water You Can Trust for Life

16th STREET AREA RECONSTRUCTION AND
TRAIL CONNECTION



DES MOINES WATER WORKS
Board of Water Works Trustees

Agenda Item No. III-L
Meeting Date: December 19, 2023
Chairperson's Signature ☐ Yes ☒ No

AGENDA ITEM FORM

SUBJECT: Performance Evaluation and Salary Increase for CEO and General Manager

SUMMARY:

The CEO's employment agreement provides for an annual performance evaluation to be conducted by the Board. The evaluation has been conducted by the Board Chair and Vice-Chair with input from the Board.

In addition, the CEO's employment agreement provides for an annual salary increase effective each January 1st in an amount equal to the average percentage increase of all bargaining unit employees for the corresponding year. The Board shall consider and may in its discretion award an additional amount of salary and/or a bonus as of any January 1st per the agreement.

The Chair of the Board recommends crediting the CEO with five additional days of leave in 2024 in recognition of the extraordinary effort over the past four years working to create the framework to bring CIWW to life. The additional leave will be made a condition of his employment agreement.

The Board of Water Works Trustees may hold a closed session pursuant to Iowa Code Section 21.5(1)(i) to discuss the CEO and general manager's performance evaluation at the request of the CEO and General Manager.

FISCAL IMPACT:



To be determined by Board action, if any.

RECOMMENDED ACTION:

A motion to authorize the Board Chair or Vice-Chair to execute an amendment to CEO's employment agreement to add five additional days of paid time off.

BOARD REQUIRED ACTION:

Action, if any, to be determined by Board after discussion.

 Doug Garnett Director of Human Resources	 Amy Kahler, CPA Chief Financial Officer	
<u>12/15/23</u> (date)	<u>12/15/23</u> (date)	

Attachments: None

AGENDA ITEM FORM

SUBJECT: Information Items

SUMMARY:

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

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Attachments: GDMBG Q4 Programming Updates, Safety Update; Contract Status and Professional Services Agreements Spreadsheets



Greater Des Moines Botanical Garden

Exploring, explaining and celebrating the world of plants

Water Programming Q4 update

OCTOBER – DECEMBER

Each of these programs include information on the connections between plants and water. Examples of this may include, but is not limited to, plants and their role in the water cycle, how plants and water interact, the importance of water-wise plants, and how plants mitigate erosion and nutrient runoff.

- **Adult Programs (Impact: approx. 90 participants, 126 contact hrs)**
 - Spooky terrariums
 - Tropical Terrariums
 - Air Plant Ornaments
 - Guided Tours
 - Private Terrarium potting bench
- **Youth & Family Programs (Impact: approx. 230 participants, 130 contact hrs)**
 - Guided tours
 - Winter Break – Tropical Adaptations theme
 - Tropical Terrarium Drop In
- **School (Impact: approx. 194 participants, 228 contact hrs)**
 - Guided tours
 - Rainforest Guided Tour – NEW program launched!
- **Outreach (Impact: approx. 163 participants, 68 contact hrs)**
 - Blank Park Zoo – STEM fest – terrariums
 - Water Warriors – Bromeliad
 - Water Warriors – Koi fish
- **Exhibits**
 - Permanent Prairie Root display and sign installation

MEMORANDUM

DATE: December 12, 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

13 (7 preventable)

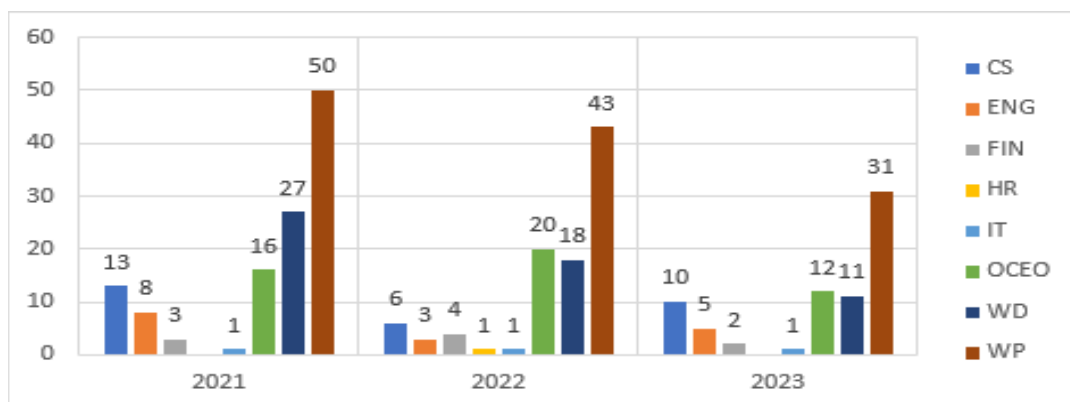
Near Misses

24 Awareness

49 Actionable (65% resolved)

- We have experienced two additional vehicle accidents on which we have yet to conduct Incident Review Meetings.
- In 2021 and 2022, Des Moines Water Works had utility goals around near-miss reporting. In 2023, we shifted our goals towards training, and the near-miss reporting trend continued downward.
- Near-misses are considered a leading indicator that warrants more eyes, ears, and attention. 2024 brings new opportunities to expand our leading indicator toolkit, not considered near-misses, to address workplace hazards and risks. These additional leading indicators are documented and trialed as jobsite observations, and static inspections.

Three-Year Near-Miss Reporting by Department



COMPETITIVE BIDS CONTRACT STATUS FOR DECEMBER 2023

2021 Well Rehabilitation	SWTP sites complete. MWTP #6 to be completed in fall of 2023.	Contractor Notice to Proceed Original Contract Sum Net Change by Change Orders Contract Sum to Date Total Completed to Date Anticipated Completion Date	Layne Christensen Company, Inc. 2/14/2022 \$1,344,820.00 \$743,265.00 \$2,088,085.00 \$1,081,996.00 Jan-24
L. P. Moon Pumping Station - Pump No. 8	Acceptance December 2023	Contractor Notice to Proceed Original Contract Sum Net Change by Change Orders Contract Sum to Date Total Completed to Date Anticipated Completion Date	The Waldinger Corporation 1/9/2023 \$123,390.00 \$4,654.00 \$128,044.00 \$128,044.00 Dec-23
Norwalk Highway G14 Meter Vault	Electrical and control work being finalized.	Contractor Notice to Proceed Original Contract Sum Net Change by Change Orders Contract Sum to Date Total Completed to Date Anticipated Completion Date	Rognes Corp. 4/6/2022 \$536,000.00 \$2,853.00 \$538,853.00 \$474,392.65 Feb-24
Fleur Drive Operations Center Stormwater System Improvements - Phase 2	Construction is substantially complete. Acceptance deferred until resolution of transformer issue.	Contractor Notice to Proceed Original Contract Sum Net Change by Change Orders Contract Sum to Date Total Completed to Date Anticipated Completion Date	WRH, Inc. 3/28/2022 \$1,179,900.00 \$24,622.89 \$1,204,522.89 \$1,189,022.89 Jan-24
McMullen High Service Pump Building HVAC and Roofing Upgrades	Construction in progress	Contractor Notice to Proceed Original Contract Sum Net Change by Change Orders Contract Sum to Date Total Completed to Date Anticipated Completion Date	Brockway Mechanical & Roofing Co., Inc. 4/17/2023 \$233,094.00 \$6,950.00 \$240,044.00 \$130,082.00 Jan-24
Maffitt East Feeder Main - Valve Vault	Construction in progress	Contractor Notice to Proceed Original Contract Sum Net Change by Change Orders Contract Sum to Date Total Completed to Date Anticipated Completion Date	WRH, Inc. 6/12/2023 \$1,280,000.00 \$0.00 \$1,280,000.00 \$326,575.00 Apr-24

Item IV-D

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	\$3,592.50
		Contract Sum to Date	\$2,148,819.50
		Total Completed to Date	\$1,898,936.60
		Anticipated Completion Date	Sep-24
DMWW Grounds Maintenance Facility	Construction in progress	Contractor	Henkel Construction Company
		Notice to Proceed	10/2/2020
		Original Contract Sum	\$3,780,900.00
		Net Change by Change Orders	\$0.00
		Contract Sum to Date	\$3,780,900.00
		Total Completed to Date	\$196,732.25
		Anticipated Completion Date	Dec-24
MWTP Truck Scale Replacement	Construction in progress	Contractor	Edge Commercial
		Notice to Proceed	10/6/2023
		Original Contract Sum	\$823,000.00
		Net Change by Change Orders	\$0.00
		Contract Sum to Date	\$823,000.00
		Total Completed to Date	\$0.00
		Anticipated Completion Date	Mar-24
FDTP Closed Loop Cooling Systems	Construction in progress	Contractor	The Waldinger Corporation
		Notice to Proceed	10/30/2023
		Original Contract Sum	\$1,458,216.00
		Net Change by Change Orders	\$10,268.00
		Contract Sum to Date	\$1,458,216.00
		Total Completed to Date	\$38,903.71
		Anticipated Completion Date	Jun-24

COMPETITIVE QUOTATIONS CONTRACT STATUS FOR OCTOBER 2023

2023 Des Moines Hydrant Relocations - Phase 1

Contractor	J&K Contracting, LLC
Notice to Proceed	10/17/2023
Original Contract Sum	\$86,200.00
Net Change by Change Orders	\$0.00
Contract Sum to Date	\$86,200.00
Total Completed to Date	\$41,800.00
Anticipated Completion Date	May-24

PROFESSIONAL SERVICES AGREEMENTS

Service	Selected Vendor	Date	Amount	Comments
Updates to Regional Cost Model with Retail Rate Impacts	FCS Group	1/1/2021	\$33,200	
Social Media Consultant	Megan McDowell	2/15/2021	\$909.09/month	Independent contractor
Engineering Services - Drafting water main relocations for City of Des Moines Hamilton Drain - Phase 2	Kirkham Michael	2/25/2021	\$10,000	COMPLETE
Design and construction services: Joint Eastside Booster Station Hypochlorite Feed System	Veenstra & Kimm, Inc.	6/8/2021	\$22,900	
Design and construction services: Operation Center Stormwater Pump Station Improvements	Veenstra & Kimm, Inc.	6/8/2021	\$50,150	
Roof Membrane Relaxation Design	WTI	7/2/2021	\$3,000	
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 - Drafting 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 Drafting 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	\$63,500	
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	\$70,000	
Maffitt East Feeder Main Control Valve Construction Testing	Allender Butzke Engineers, Inc.	6/6/2023	\$16,231	
Maffitt East Feeder Main Control Valve Design	Stanley Consultants	6/7/2023	\$40,000	
Maffitt East Feeder Main Control Valve Cathodic Protect	Corpro Corrosion Companies	9/14/2023	\$5,000	
2023 DM WMR Contract 4 Surveying Services	Snyder & Associates	6/13/2023	\$26,624	
5 kV Switchgear Controls - Phase 1	KFI Engineers, Inc.	6/28/2023	\$119,000	
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	
FDTP Closed Loop Cooling Systems	IMEG	8/15/2023	\$69,200	
FDTP - Distribution Building Improvements	SVPA Architects	8/30/2023	\$34,780	
2024 City of DM WMR Contract 1	McClure Engineering	8/31/2023	\$55,854	
MWTP Truck Scale Replacement	Allender Butzke Engineers, Inc.	8/31/2023	\$10,120.18	
FDTP Closed Loop Cooling Systems	Team Services, Inc	9/6/2023	\$960	
Maffitt East Feeder Main Control Valve Design	Corpro Corrosion Companies	9/14/2023	\$5,000	
McMullen Slaker Room Access Walkway	McClure Engineering	10/24/2023	\$5,000	
DMWW Grounds Maintenance Facility - Construction Services	Snyder & Associates	11/9/2023	\$111,322	
DMWW Grounds Maintenance Facility - Construction Testing	Allender Butzke Engineers, Inc.	11/9/2023	\$14,000	
2024 City of DM WMR Contract 3	McClure Engineering	11/2/2023	\$10,935	
DMWW FWTP Pump Station HVAC Upgrades	Team Services, Inc	11/14/2023	\$720	