



City of Appleton

100 North Appleton Street
Appleton, WI 54911-4799
www.appleton.org

Meeting Agenda - Final Utilities Committee

Tuesday, March 21, 2023

4:30 PM

Council Chambers, 6th Floor

1. Call meeting to order

2. Roll call of membership

3. Approval of minutes from previous meeting

[23-0273](#) Approval of the March 7, 2023 Utilities Committee Meeting minutes.

Attachments: [March 7, 2023 Utilities Committee Meeting Minutes.pdf](#)

4. **Public Hearings/Apearances**

5. **Action Items**

[23-0291](#) Award Unit R-23 Chemical Root Foaming of Sanitary Sewers to Duke's Root Control, Inc. in an amount not to exceed \$25,000.

Attachments: [Attachment - Utilities Committee - 03-21-23 - Award of Contract Unit R-23.pdf](#)

[23-0304](#) Award purchase of Primary Digester Circulation Pump from Crane Engineering in the amount of \$27,774.

Attachments: [230317_CraneEngineering_DigCirPumpPurchase.pdf](#)

[23-0300](#) Award the Sole Source Purchase of Secondary Clarifier Algae Sweep System from Ford Hall Company, Inc., in the amount of \$131,040 with a 15% contingency of \$19,656 for a project total not to exceed \$150,696.

Attachments: [Secondary Clarifier Algae Sweep System Sole Source Ford Hall.pdf](#)

[23-0301](#) Sole Source Engineering Services Contract to McMahon as part of Phase II Belt Filter Press Equipment Upgrades Project in the amount of \$162,000 with a 15% contingency of \$24,300 for a Project Total not to exceed \$186,300.

Attachments: [Engineering Services Contract Phase II Belt Filter Press Equipment Upgrades S](#)

[23-0302](#)

Sole Source Engineering Services Contract to McMahon as part of the 2023 Digester Piping and Heat Exchanger Replacement Project in the amount of \$85,300 with a 15% contingency of \$12,795 for a Project Total not to exceed \$98,095.

Attachments: [2023 Digester Piping and Heat Exchanger Replacement Project Sole Source M](#)

6. Information Items

[23-0297](#)

Monthly Report for February 2023:
- Water Distribution and Meter Team Monthly Report

Attachments: [Water Main Breaks February 2023.pdf](#)

7. Adjournment

Notice is hereby given that a quorum of the Common Council may be present during this meeting, although no Council action will be taken.

Reasonable Accommodations for Persons with Disabilities will be made upon Request and if Feasible.

**We are currently experiencing intermittent issues/outages with our audio/video equipment. Meeting live streams and recordings are operational but unreliable at times. This is due to delays in receiving necessary system hardware components. We continue to look for solutions in the interim and we hope to have these issues resolved soon.*

For questions on the agenda, contact Chris Shaw at 920-832-5945 or Danielle Block at 920-832-6474.



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Meeting Minutes - Final Utilities Committee

Tuesday, March 7, 2023

4:30 PM

Council Chambers, 6th Floor

1. Call meeting to order

Chairperson Meltzer called the Utilities Committee Meeting to order at 4:30 p.m.

2. Roll call of membership

Present: 5 - Meltzer, Doran, Firkus, Jones and Schultz

3. Approval of minutes from previous meeting

[23-0101](#)

Approval of the January 10, 2023 Utilities Committee Meeting minutes.

Attachments: [January 10, 2023 Utilities Committee Meeting minutes.pdf](#)

**Schultz moved, seconded by Firkus, that the Minutes be approved. Roll Call.
Motion carried by the following vote:**

Aye: 5 - Meltzer, Doran, Firkus, Jones and Schultz

4. **Public Hearings/Appearances**

5. **Action Items**

[23-0216](#)

Approve 2022 Annual Stormwater Report to DNR

Attachments: [2022 MS4 Annual report w attachments.pdf](#)

**Schultz moved, seconded by Jones, that the Report Action Item be
recommended for approval. Roll Call. Motion carried by the following vote:**

Aye: 5 - Meltzer, Doran, Firkus, Jones and Schultz

[23-0217](#)

Award of Unit K-23 Native Landscape Management Contract to NES Ecological Services - A Division of Robert. Lee & Associates, in an amount not to exceed \$215,000.

Attachments: [K-23 Contract Award Util Memo FINAL 03-01-2023.pdf](#)

**Firkus moved, seconded by Jones, that the Report Action Item be
recommended for approval. Roll Call. Motion carried by the following vote:**

Aye: 5 - Meltzer, Doran, Firkus, Jones and Schultz

6. Information Items

[23-0200](#)

Change Order #1 to Badger Specialty Coatings, LLC for the DAF Coatings Project in the amount of \$5,600 resulting in a decrease of contingency from \$5,900 to \$300.

Attachments: [Change Order 1 DAF Coatings Project 02-10-23doc.pdf](#)

This item was presented.

[23-0199](#)

Appleton Wastewater SARS-CoV-2 Report

Attachments: [Appleton WWTF SARS CoV 2 Report 030223.pdf](#)

This report was reviewed.

[23-0198](#)

Polymer Incident Update

Attachments: [Utilities Committee - AWWTP Polymer Incident Memo \(2\) 02-20-23.pdf](#)
[030723.pdf](#)

This item was presented.

[23-0102](#)

Monthly Reports for October, November, and December 2022:
- Wastewater Treatment Plant Synopsis and Receiving Station Revenue Report
- Water Treatment Facility Synopsis
- Water Distribution and Meter Team Monthly Report - December

Attachments: [2022 Q4 Wastewater Treatment Plant Synopsis.pdf](#)
[2022 Q4 Water Plant Synopsis.pdf](#)
[Water Main Breaks December 2022.pdf](#)

The reports were reviewed.

[23-0197](#)

Monthly Report for January 2023:
- Water Distribution and Meter Team Monthly Report

Attachments: [Water Main Breaks January 2023.pdf](#)

The report was reviewed.

7. Adjournment

Firkus moved, seconded by Jones, that the Utilities Committee be adjourned at 4:52 p.m.. Roll Call. Motion carried by the following vote:

Aye: 5 - Meltzer, Doran, Firkus, Jones and Schultz

CITY OF APPLETON
Department of Public Works
MEMORANDUM

TO: **Finance Committee**
 Municipal Services Committee
 Utilities Committee

SUBJECT: Award of Contract

The Department of Public Works recommends that the following described work:

R-23 Chemical Root Foaming of Sanitary Sewers

Be awarded to:

Name: Duke's Root Control, Inc.
Address: 400 Airport Road, Suite E
 Elgin, IL 60123

In the amount of : _____

With a _____ **% contingency of :** _____

For a project total not to exceed : _____

**** OR ****

In an amount Not To Exceed : \$25,000.00

Budget: \$25,000.00
Estimate: \$25,000.00
Committee Date: 03/21/23
Council Date: 04/05/23

Bid Tabulation

R-23 Chemical Root Foaming of Sanitary Sewers

02/27/2023 01:45 PM CST

Bid Item	Item Description	Quantity	Unit	Duke's Root Control	
				Unit Price	Item Total
1	8"/9" Sanitary Sewer	4,855	lin.ft.	\$1.78	\$8,641.90
2	10" Sanitary Sewer	3,471	lin.ft.	\$1.78	\$6,178.38
3	12" Sanitary Sewer	2,317	lin.ft.	\$1.78	\$4,124.26
4	15" Sanitary Sewer	559	lin.ft.	\$1.78	\$995.02
5	18" Sanitary Sewer	1,347	lin.ft.	\$1.78	\$2,397.66
6	21" Sanitary Sewer	500	lin.ft.	\$1.78	\$890.00

Total Bid:

\$23,227.22



"...meeting community needs...enhancing quality of life."

Department of Utilities
Wastewater Treatment Plant
2006 E Newberry Street
Appleton, WI 54915
920-832-5945 tel.
920-832-5949 fax

TO: Chairperson Vered Meltzer and Members of the Utilities Committee

FROM: Chris Stempa, Utilities Deputy Director

DATE: March 17, 2023

RE: *Approve: Award purchase of Primary Digester Circulation Pump from Crane Engineering in the amount of \$27,774*

BACKGROUND:

The Appleton Wastewater Treatment Plant (AWWTP) operates two 2.2-million gallon primary anaerobic digesters which biologically convert organic materials in sludges to methane and carbon dioxide. The contents of each digester is circulated by dedicated 1,200 gallon per minute capacity rated centrifugal pumps. The pump operation of these pumps is critical for sustaining contact time between microbes and incoming feed wastes (includes primary sludge, thickened waste sludge, and receiving station wastes). The previously described stabilization process also reduce the volume of sludge solids that is subsequently dewatered and then land applied per our DNR Wisconsin Pollutant Discharge Elimination System (WPDES) permit. In addition to constant circulation facilitating contact time and permit compliance, it prevents the settling of heavier solids which would otherwise occur under stagnant conditions. If that were to occur, irreversible plugging of the circulation piping could occur.

The AWWTP inventory does not currently have a spare pump on hand in the event of a catastrophic failure. Given the criticality of this equipment to operation and compliance, quotes were solicited from regional distributors to secure a spare unit.

QUOTATIONS

Four reputable pump distributors provided quotes for an in-kind replacement pump. However, only two could match the specifications of the existing Wemco® circulation pump which included a stainless-steel vs. carbon steel impeller flange. It was also specified that the replacement pump would not require any modification as part of installation. Crane Engineering provided the least cost quote which met the required specifications. The result of the quotation process is summarized in Table 1.

Table 1: Digester Circulation Pump Quotes

Vendor	Quote	Comment
Crane Engineering	\$27,774	In-kind replacement
LAI, Ltd	\$28,500	In-kind replacement
Trillium	\$20,000	Did not meet required specifications
William & Reed	\$16,338	Did not meet required specifications

RECOMMNDATION

Approval of primary digester circulation pump from Crane Engineering in the amount of \$27,774

If you have any questions or require additional information regarding this project, please contact Chris Stempa at 920-832-5945.



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920-832-5945 tel.
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TO: Chairperson Vered Meltzer and Members of the Utilities Committee

FROM: Chris Stempa, Utilities Deputy Director

DATE: March 17, 2023

RE: *Approve: Award the Sole Source Purchase of Secondary Clarifier Algae Sweep System from Ford Hall Company Inc., in the amount of \$131,040 with a 15% contingency of \$19,656 for a project total not to exceed \$150,696*

BACKGROUND:

There are six secondary clarifiers located southeast of the aeration tanks. The clarifiers are each 100 feet in diameter and 18 feet deep with a volume equal to 1,060,000 gallons. Mixed liquor flow from the aeration tanks is split between each of the six final clarifiers where solids are settled out and treated water passes. Approximately 20% of the solids are pumped for further thickening and anaerobic digestion while the remaining 80% is returned back to the head of aeration to maintain appropriate biological populations. The forward flow of treated water is equally distributed over a 470-foot-long weir located along the outer circumference of each clarifier. Each clarifier is equipped with an algae sweep system installed on the upper ends of the A-frames that are fabricated to the rotating collection mechanisms.

The original algae sweep system was designed, manufactured, and installed by Ford Hall in 2001 to facilitate automated cleaning of the weirs. If not addressed, prolific algae formation will foul weir openings causing short-circuiting and irregular flow patterns that negatively impact treatment performance. Prior to the algae sweep installation, staff were required to manually clean the weirs on a weekly basis. This was a labor intensive and costly process that was mitigated by the unique design of the Ford Hall algae sweep system.

After over 20 years of continuous use, the existing algae sweeps have reached their useful life and requires replacement. This project will replace the existing Ford Hall patented algae "Weir-Wolf" system with an another manufactured, installed, and commissioned by Ford Hall.

QUOTATION

Ford Hall provided a quote on for a complete turnkey installation at a cost of \$131,040. The quote includes replacement components, field installation certified technicians, start-

up testing, certification, and training. All components will be covered as part of a complete Five-Year Warranty. The quote provided by Ford Hall is 31% less than what had been projected in the CIP budget excluding costs for unknown or unanticipated repair work.

JUSTIFICATION

Ford Hall has 30 years of experience installing these patented systems across the country with over 30 alone in Wisconsin. Their claim is that the learned experience over that time has provided an in-depth knowledge of the nuances involved with installing and adjusting these systems to ensure successful operation. Ford Hall will not provide the 5-year warranty if the replacement components were installed by another contractor install. The explanation provided was that these components are installed to compensate for radial variances which are specific to each clarifier design. The AWWTP weir/trough system is not a true circle with independent straight segments measuring approximately 15-feet each and fabricated in series along the outer circumference of each clarifier. Each segment joint has an angle of approximately 11-degrees which the sweep system must navigate without catching while still performing their intended function. The consequences of one of the cleaning mechanisms catching on a weir segment or joint have been experienced at the AWWTP. The outcome of which involves extended clarifier downtime and thousands of dollars in repair costs to restore operation. It should also be noted that there is no unit cost guarantee on the replacement parts if the installation service piece was removed (currently a lump sum). Furthermore, it is unlikely that greater value would be received if we were to seek competitive costs for installation services given the nature of this work (confined space and rigging) especially when factoring the bidding climate over the past few years.

RECOMMENDATION

I am requesting sole source purchase award of Secondary Clarifier Algae Sweep System from Ford Hall Company Inc., in the amount of \$131,040 with a 15% contingency of \$19,656 for a project total not to exceed \$150,696.

If you have any questions or require additional information regarding this project please contact Chris Stempa at 920-832-5945.



SOLE SOURCE REQUEST

The undersigned certifies that the commodity/service shown below qualifies as a sole source request and meets one or more of the following requirements. The department has demonstrated, and the Purchasing Manager concurs that only one source exists, the price is equitable, and/or noncompetitive negotiation is in the best interests of the City.

- Unique, proprietary, or one-of-a-kind:** Specific commodity/service is required and available from only one source, giving the City a superior and necessary benefit that cannot be obtained from other sources.
- Inadequate competition:** Purchasing solicitation (bid, proposal, or quote) did not result in any qualified vendor responses and competition is determined to be inadequate.
- Health or Safety Concern:** When a health or safety concern exists that is *not* an immediate threat but needs to be addressed in a period that does not allow for formal competitive procurement procedures.
- Continuity of design:** Consistency with current commodity or service.
- Emergency procurement:** A risk of human suffering or substantial damage to real or personal property exists requiring immediate attention.
- Cooperative purchase:** Purchase from another governmental unit contract or state approved purchasing association.
- Other:** Description provided below.

Ford Hall designed, manufactured, and installed system in 2001, providing 20+ years of continuous use. No other system with this design exists in today's market. Quote is 31% less than what had been projected in the CIP budget.

PROPOSED DETAILS
Requesting dept: Utilities
Product/service: Replace algae sweep system
Vendor name: Ford Hall
Total cost: \$131,040

Justification and price quotation provided by the department, for the items to be considered and approved as a sole source purchase attached for review.


Purchasing Manager

3/16/23
Date



"...meeting community needs...enhancing quality of life."

Department of Utilities
Wastewater Treatment Plant
2006 E Newberry Street
Appleton, WI 54915
920-832-5945 tel.
920-832-5949 fax

TO: Chairperson Vered Meltzer and Members of the Utilities Committee

FROM: Chris Stempa, Utilities Deputy Director

DATE: March 17, 2023

RE: *Approve: Sole Source Engineering Services Contract to McMahon as part of Phase II Belt Filter Press Equipment Upgrades Project in the amount of \$162,000 with a 15% contingency of \$24,300 for a Project Total not to exceed \$186,300*

BACKGROUND:

On February 3, 2021, Common Council awarded the engineering service contract for the "Wastewater Plant Belt Filter Press Upgrades Project" to McMahon. The project was originally budgeted to occur within a single phase and would replace the three existing Ashbrook Simon Hartley Winkle presses or belt filter presses (BFPs) with four new BFP's. The existing dewatering equipment has been used for the past 30 years to dewater anaerobically digested sludge which have exceeded their useful life projections. That statement is supported over the last year by the escalating trend of equipment failures, critical parts obsolescence (i.e., drives) and deterioration of structural components caused by years of acid washing.

As preliminary engineering progressed from 2021 into 2022, the full extent of the project scope was refined as observations, alternatives, recommendations, and updated equipment estimates were obtained. The substantial increase in costs seen with other capital construction project bids substantially outpaced budgetary projections. The contributing factors for this include lingering supply chain issues, sustained high demands for goods and services, and spikes in commodity prices such as steel and oil. Coupled with inflationary increases, the cost of operations, equipment, and construction have increased beyond prior year forecasts.

Although much of the design work was nearly completed by McMahon, it was necessary to segregate the project into two separate phases over two back-to-back years to advance the foundational blocks of the originally envisioned CIP. Therefore, in 2022 McMahon generated the public construction bid documents for the "Phase I Belt Filter Press Equipment Upgrades Project". The Phase I contract was awarded to Staab Construction and will pave the way by which the 2023 Phase II Belt Filter Press Equipment Upgrades Project can occur. The existing three BFPs will remain operational during Phase I construction. This allows for continuity of operation during the installation and startup of new equipment. The substantial completion of Phase I will facilitate the transition to

Phase II which involves the complete demotion and replacement of the three existing BFP's, the removal of remnant hard wiring associated with obsolete equipment, and the replacement of antiquated and/or degraded components outside the electrical hardware systems.

PROPOSAL

As work proceeded on Phase I, McMahon was asked to provide a cost for Phase II services. The 2021 budget identified as part of the BFP Upgrades Project for engineering services was \$750,000. McMahon is currently under a contract for Phase I work for \$352,872 less contingency. The proposal McMahon provided on March 2, 2023 outlined the additional engineering fees necessary to complete Phase II work totaled \$162,000. The total combined services contract (existing contract and proposal) totals \$541,872.

JUSTIFICATION

Typical engineering fees integrated as a function of construction are 15% or more depending on the type of project. Even when applying that level of contingency and factoring that the scope now involves two separate bidding processes as part of two construction projects, the overall contract amount is still only 80% of the original 2021 budget. McMahon has already generated much of the preliminary design work that can be utilized as part of the Phase II BFP Upgrades Project. They have provided quality engineering services as part the Phase I BFP Upgrades Project and have a history of providing similar services at the AWWTP on other projects. Their proposal reflects the value the city would be receiving. For the reasons previously described, I recommend that McMahon considered for a sole source contract as part of Phase II engineering services.

RECOMMNDATION

Approval of a sole source Engineering contract to McMahon as part of Phase II Belt Filter Press Equipment Upgraders Project in the amount of \$162,000 with a 15% contingency of \$24,300 for a Project Total not to exceed \$186,300

If you have any questions or require additional information regarding this project, please contact Chris Stempa at 920-832-5945.



SOLE SOURCE REQUEST

The undersigned certifies that the commodity/service shown below qualifies as a sole source request and meets one or more of the following requirements. The department has demonstrated, and the Purchasing Manager concurs that only one source exists, the price is equitable, and/or noncompetitive negotiation is in the best interests of the City.

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- Cooperative purchase:** Purchase from another governmental unit contract or state approved purchasing association.
- Other:** Description provided below.

McMahon's familiarity with Phase I and preliminary work provides the most efficient and cost-effective solution.

PROPOSED DETAILS
Requesting dept: Utilities
Product/service: Engineering services for Phase II Belt Filter Press Equipment Upgrade Project
Vendor name: McMahon
Total cost: \$162,000

Justification and price quotation provided by the department, for the items to be considered and approved as a sole source purchase attached for review.


Purchasing Manager

3/16/23
Date



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920-832-5945 tel.
920-832-5949 fax

TO: Chairperson Vered Meltzer and Members of the Utilities Committee

FROM: Chris Stempa, Utilities Deputy Director

DATE: March 17, 2023

RE: *Approve: Sole Source Engineering Services Contract to McMahon as part of the 2023 Digester Piping and Heat Exchanger Replacement Project in the amount of \$85,300 with a 15% contingency of \$12,795 for a Project Total not to exceed \$98,095*

BACKGROUND:

On February 16, 2022, Common Council awarded the "AWWTP Blended Sludge and HEX Replacement Project" engineering services contract to McMahon. Within a \$450,000 budget, the project was structured to address piping erosion and corrosion that had compromised the integrity of preliminary heat exchanger (HEX), sludge recirculation piping, and associated isolation valves within the MK-Tunnel corridor. The project also included numerous architectural repairs along with the recladding of the Raw Sludge Blend Tank and the replacement of Grit Trap Vortex System drives (independent 2022 CIP totaling \$258,750).

In September 2022, two bids were received as part of the public bid process. The least cost bid exceeded the available budget by nearly \$200,000. Contributing factors for higher bid costs were the result of lingering supply chain issues, sustained high demand for various products and services, elevated costs for construction materials, and higher costs for labor. After conferring with McMahon, the Utilities Department recommend rejecting the bid with the intent of deferring the work as part of an amended 2023 CIP, "Digester Piping and Heat Exchanger Replacement Project".

The resulting 2023 Digester Piping and Heat Exchanger Replacement Project includes a similar scope of work as the 2022 Blended Sludge and HEX Replacement Project but without the architectural improvements. Architectural elements were removed to help safeguard funding for higher priority replacement work based on the 2022 bid results while also adding additional critical scope items including replacement of the primary HEXs and sludge recirculation piping. Those additional items gave way to the 2023 CIP project name. These items were added after experiencing failures in multiple pipe spool pieces that required immediate replacement. Further inspection of this piping network revealed similar erosion and corrosion as the piping in MK-Tunnel. It should be noted that there is not complete redundancy for the primary HEXs in the lower level of the anaerobic digester complex. If a catastrophic failure were to occur with one of the heat

exchangers or associated recirculation piping the entire process would need to be removed from service. The consequence of a shutdown would be the loss of waste and revenue from the Hauled Waste Program (greater than \$2 million dollars annually). This project scope will also include the balance of replacement of remaining ductile iron sludge pipe in MK-Tunnel where similar impacts from corrosion have occurred. The new specified replacement pipe will have a corrosion resistant interior coating like that utilized in another recent pipe replacement project.

PROPOSAL

The McMahon contract as part of the 2022 AWWTP Blended Sludge and HEX Replacement Project was \$30,100 which included all the previously described scope elements. The proposal as part of the 2023 Digester Piping and Heat Exchanger Replacement Project would reflect an increase of \$85,300 or a total of \$115,400. Available contract contingency is only \$4,000 and would not cover the amount of the proposal as part of contract amendment unless a budget transfer was approved.

JUSTIFICATION

The construction budget for the 2023 Digester Piping and Heat Exchanger Replacement Project is \$3,801,195. McMahon's proposal is only 2% of the overall construction budget. Typically, 15% or more of estimated construction costs is factored for engineering services depending on the type of work or project to occur. McMahon has completed much of the engineering as part of the original 2022 AWWTP Blended Sludge and HEX Replacement Project which would be utilized again as part of the 2023 Digester Piping and Heat Exchanger Replacement Project. Contracting with another firm as part of request for proposal process, would not yield cost savings. This is because the risks associated with relying on work that was not their own. The proposal McMahon provided outlines the change in scope from the current service contract as part of the 2022 AWWTP Blended Sludge and HEX Replacement Project. They have provided quality engineering services as part that project and have a history of providing similar services at the AWWTP on other projects. The proposal reflects the value the city would be receiving for the reasons previously described. As such, I recommend that McMahon be considered for a sole source contract as part of the 2023 Digester Piping and Heat Exchanger Replacement Project.

RECOMMNDATION

Approval of a sole source Engineering contract to McMahon as part of Phase II Belt Filter Press Equipment Upgraders Project in the amount of \$162,000 with a 15% contingency of \$24,300 for a Project Total not to exceed \$186,300

If you have any questions or require additional information regarding this project, please contact Chris Stempa at 920-832-5945.



SOLE SOURCE REQUEST

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- Emergency procurement:** A risk of human suffering or substantial damage to real or personal property exists requiring immediate attention.
- Cooperative purchase:** Purchase from another governmental unit contract or state approved purchasing association.
- Other:** Description provided below.

McMahon completed much of the engineering in 2022, a similar scope of work to be included in the 2023 Digester Piping and Heat Exchanger Replacement Project. Another RFP process would not yield a cost less than what McMahon has provided.

PROPOSED DETAILS
Requesting dept: Utilities
Product/service: Engineering services - 2023 Digester Piping & Heat Exchanger Replacement Project
Vendor name: McMahon
Total cost: \$85,300

Justification and price quotation provided by the department, for the items to be considered and approved as a sole source purchase attached for review.


Purchasing Manager

3/17/23
Date

WATER MAIN BREAK/ JOINT LEAK REPORT - February 2023

YEARLY WATER MAIN BREAK COMPARISON

<u>MONTH 22</u>	<u>MONTH 23</u>	<u>YTD 22</u>	<u>YTD 23</u>
22	11	45	20

LOCATION	BREAK DATE	WORK ORDER	TYPE OF PIPE	SIZE	YEAR	BREAK	ESTIMATED DURATION	ESTIMATED WATER LOSS IN GALLONS	DOLLAR VALUE OF WATER REVENUE LOSS**	TOTAL DOLLAR VALUE FOR BREAK* <small>(Water Costs + Repair Costs)</small>
29 Julie St.	2/3/2023	309269	CIP	8"	1961	1/8" Crack	4 Hours	114,031	\$693.31	\$9,693.31
NOTES: The break was found due to water bubbling up. The duration was calculated by the soil saturation and the time of the break until it was fixed.										
2637 S. Jackson St.	2/6/2023	309269	CIP	8"	1960	1/8" Hole	50 days	180,186	\$1,095.53	\$10,095.53
NOTES: The break was found when testing hydrants and correlating. The duration was calculated by the soil saturation and the last time they hydrant was tested.										
1716 E. Calumet St.	2/7/2023	309269	CIP	12"	1965	4" Hole	12 Hours	1,739,586	\$10,576.68	\$19,576.68
NOTES: The break was found by water bubbling up. The duration was calculated by a neighbor who said they heard a bang at 6:00 a.m. and their pipes were vibrating all day.										
1506 N. Oneida St.	2/8/2023	309269	CIP	12"	1952	1" Hole	10 Hours	105,272	\$640.05	\$9,640.05
NOTES: The break was found by water bubbling out of the road. The duration was calculated by the soil saturation and when the call about water bubbling came in.										
331 E. Greenfield St.	2/9/2023	309269	CIP	6"	1957	1/4" Crack	4 Hours	154,717	\$940.68	\$9,940.68
NOTES: The break was found by water coming up in the road. The duation was calculated by the soil saturation and the time of the call.										

**Water Loss is calculated at the residential rate of \$6.08 per 1000 gallons.

LOCATION	BREAK DATE	WORK ORDER	TYPE OF PIPE	SIZE	YEAR	BREAK	ESTIMATED DURATION	ESTIMATED WATER LOSS IN GALLONS	DOLLAR VALUE OF WATER REVENUE LOSS**	TOTAL DOLLAR VALUE FOR BREAK* (Water Costs + Repair Costs)
1506 N. Oneida St.	2/9/2023	309269	CIP	12"	1952	3" Hole	4 Hours	378,978	\$2,304.19	\$11,304.19
NOTES: The break was found by water bubbling in the street. The duration was calculated by when we knew it had broke again until the repair was made.										
2315 W. Everett St.	2/9/2023	309269	CIP	12"	1961	1/8" Crack	8 Hours	392,764	\$2,388.01	\$11,388.01
NOTES: The break was found due to water coming up in a terrace. The duration was calculated by the soil saturation and the time of call about visible water.										
1117 N. Briarcliff Dr.	2/23/2023	309269	CIP	8"	1964	1/8" Crack, 10" Split	5 Hours	71,554	\$435.05	\$9,435.05
NOTES: The break was found due to water coming up in the road. The duration was calculated by the soil saturation.										
1110 E. Taft Av.	2/24/2023	309269	CIP	8"	1961	5" Hole	6 Hours	1,519,466	\$9,238.35	\$18,238.35
NOTES: The break was found due to water bubbling up. The duration was calculated by the soil saturation and the time it was called in until it was fixed.										
2413 S. Greenview St.	2/24/2023	309269	CIP	8"	1956	4" Hole	4 Hours	648,305	\$3,941.69	\$12,941.69
NOTES: The break was found due to water bubbling up. The duration was calculated by the time we became aware of the break until it was fixed.										
1313 E. Witzke Bl.	2/28/2023	309269	CIP	8"	1970's	1/16" Crack	5 Days	1,748,905	\$10,633.34	\$19,633.34
NOTES: The break was found due to water bubbling up. The duration was calculated as the leak likely began on Thursday 02/23/23.										

*In addition to the dollar value of water revenue lost, there is an average cost of \$9,000 to repair each water main break (including final restoration) and an average cost of \$630 to produce the lost water for each main break.

Total Cost = \$132,193.58

**Water Loss is calculated at the residential rate of \$6.08 per 1000 gallons.