



BOARD OF WATERWORKS COMMISSIONERS AGENDA

September 19, 2022 at 3:30 PM

Water Utility Admin Office, 72 Park Avenue, Sheboygan WI

Persons with disabilities who need accommodations to attend this meeting should contact the Sheboygan Water Utility, (920) 459-3805. Persons other than commission, committee, and board members who wish to participate remotely shall provide notice to the Utility at 920-459-3805 at least 24 hours before the meeting so that the person may be provided a remote link for that purpose.

OPENING OF MEETING

1. Pledge of Allegiance

MINUTES

2. Request approval of minutes from August 15, 2022 meeting

REPORTS

- [3.](#) Financial reports and approval of vouchers
- [4.](#) Superintendent's report including operations, construction-maintenance, and customer relations/fiscal

ITEMS FOR DISCUSSION AND POSSIBLE ACTION

- [5.](#) Request approval of annual dive/intake cleaning
- [6.](#) Review filter#5 failure
- [7.](#) Request approval for filter media replacement
8. Review results of financial planning tool
- [9.](#) Request purchase of water meters

PERSONNEL

10. Update on distribution technician recruitment

NEXT MEETING

11. Next meeting will take place on: October 17, 2022

ADJOURN

12. Motion to Adjourn

In compliance with Wisconsin's Open Meetings Law, this agenda was posted in the following locations more than 24 hours prior to the time of the meeting:

*City Hall • Mead Public Library
Sheboygan County Administration Building • City's website*



RETURN ON RATE BASE

August 31, 2022

	AUGUST 2022	AUGUST 2021
<u>Add 2 YR Average</u>		
Utility Plant Balance	\$ 72,343,620	\$ 68,644,634
Materials and Supplies Inventory	\$ 248,524	\$ 288,520
<u>Less 2 YR Average</u>		
Reserve for Depreciation	\$ 24,734,707	\$ 23,214,105
Customer Adv for Const	\$ 4,776,564	\$ -
Average Rate Base	\$ 43,080,873	\$ 45,719,049
Net Operating Income YTD	\$ 1,489,283	\$ 1,069,734
Net Operating Income As a Percent of Average Net Rate Base	<u>3.46%</u>	<u>2.34%</u>

Rate base is calculated using the two year average balance in the following accounts:

Utility Plant Balance - includes all capital assets less any contributed capital assets.

Materials and Supplies Inventory - includes all materials and supplies on hand and in inventory.

Reserve for Depreciation - includes depreciation on capital assets less any contributed capital assets.



CASH RESERVE
August 31, 2022

Ending balance on report for July 31, 2022	<u>15,817,526.71</u>
Plus: Receipts	448,683.22
Misc Receipts	14,203.13
Direct Pay Receipts	472,231.83
Stop Loss Reimbursement	-
Money Market/CDARs Investment Interest	7,333.21
Minus:	
Disbursements - vendors and payroll	(1,242,347.43)
Bank Service Fees	(225.56)
Health & Dental Claims/Adm Costs	(62,919.60)
NSF Checks & Customer Refunds	(1,008.97)
Invoice Cloud/Paymentech Deposit Fees	(6,173.34)
Reallocate Sewer/Garbage - payments	(209.19)
Reallocate Sewer/Garbage - monthly	(169.38)
DNR SDWL Reimbursement - RWI	-
Automated Credit Card Payments	(2,880.62)
Postage	(8,294.76)
Utility Water Payments	(1,891.32)
Ending Balance August 31, 2022	<u>\$ 15,433,857.93</u>

Note: The above amount includes:	
Bond Reserve Fund	644,319.88
LSL Revolving Loan Fund	153,960.22
Money Market Investment	3,991,784.36
Health Insurance Restricted Reserve	380,000.00
ARPA Money Market Restricted - RWI	7,527,972.01
BAN Funds for Construction	-
Total	<u>\$ 12,698,036.47</u>
General Unrestricted Operating Cash	2,735,821.46



REPORT OF BILLING

AUGUST 2022

	<u>2022</u>	<u>2021</u>	<u>Increase or (Decrease)</u>
<u>Quarterly Metered*</u>			
(Dist III - south of Union Ave)			
Residential	248,578.70	240,874.94	7,703.76
Multi-Family	28,204.97	26,067.36	2,137.61
Commercial	40,073.47	36,616.16	3,457.31
Industrial	22,381.50	24,593.66	(2,212.16)
Public	<u>14,421.13</u>	<u>12,484.99</u>	<u>1,936.14</u>
Subtotal	353,659.77	340,637.11	13,022.66
Public Fire Protection	70,247.92	67,831.05	2,416.87
Monthly Metered	<u>434,137.09</u>	<u>386,145.12</u>	<u>47,991.97</u>
Sheboygan Net	858,044.78	794,613.28	63,431.50
Sheboygan Falls	74,666.47	90,116.15	(15,449.68)
Kohler	<u>41,250.05</u>	<u>38,911.95</u>	<u>2,338.10</u>
Total	973,961.30	923,641.38	50,319.92

* Billing for scheduled district only for the three preceding months usage.

Total accumulative billing for 2022 is \$6,729,789.83. An increase of \$475,143.42 from 2021 accounted for as follows:

	<u>2022-Total Year to Date</u>
Sheboygan	484,815.95
Sheboygan Falls	(26,600.47)
Kohler	<u>16,927.94</u>
	475,143.42

Total bills mailed August, 2022: 6,740

Residential	6,145	Multi-Family	9
Multi-Family	91	Commercial	22
Commercial	326	Industrial	67
Industrial	45	Public	8
Public	<u>27</u>		
Quarterly	6,634	Monthly	106



STATEMENT OF NET POSITION
AUGUST 31, 2022 AND 2021

<u>Assets and Other Debits Utility Plant</u>	<u>Year to Date 2022</u>	<u>Year to Date 2021</u>	<u>Liabilities and Other Credits</u>	<u>Year to Date 2022</u>	<u>Year to Date 2021</u>
			<u>Proprietary Capital</u>		
Utility Plant	82,058,633	78,502,723	Capital Paid by Municipal	1,640,701	1,640,701
Depreciation- Utility Plant	27,434,737	25,914,992	Unapprop. Earned Surplus	57,712,820	46,036,880
Net Utility Plant	<u>\$ 54,623,896</u>	<u>\$ 52,587,731</u>	Total Proprietary Capital	<u>\$ 59,353,521</u>	<u>\$ 47,677,581</u>
<u>Other Property and Investments</u>			Bonds, Loans & Advances	11,226,674	12,624,174
Appropriated Funds ⁴	8,061,932	1,405,438	Total Long Term Debt	<u>\$ 11,226,674</u>	<u>\$ 12,624,174</u>
Bond Redemption Fund	644,320	668,414			
Net Pension Asset ¹	769,762	411,147			
Deferred Outflow - Pension & OPEB ¹	1,402,233	1,038,866	<u>Current & Accrued Liabilities</u>		
Total Other Prop & Investment	<u>\$ 10,878,247</u>	<u>\$ 3,523,865</u>	Accounts Payable	-	483
			Accrued Liabilities	907,278	925,223
			Total Current & Accrued Liab.	<u>\$ 907,278</u>	<u>\$ 925,706</u>
<u>Current and Accrued Assets</u>			<u>Deferred Credits</u>		
Cash & Investments	6,728,356	5,681,345	Bond Premium	177,200	197,050
Accounts Receivable	1,563,039	1,463,428	Pre 2003 Depr on Contributed Assets	33,466	58,599
LSL Loan Receivable ³	238,466	76,731	Other Deferred Credits ³	0	0
Grant Receivable - Restricted ²	83,982	34,485		<u>\$ 210,666</u>	<u>\$ 255,649</u>
Materials & Supplies Inventory	264,671	232,377			
Prepaid Expenses	24,609	30,083	<u>Operating Reserves</u>		
Total Current & Accrued Assets	<u>\$ 8,903,123</u>	<u>\$ 7,518,448</u>	Net Pension & OPEB Liability ¹	357,040	324,886
			Deferred Inflow - Pension & OPEB ¹	1,752,555	1,260,697
Total Assets and Debits	<u>\$ 74,405,266</u>	<u>\$ 63,630,044</u>	Accrued Vac & Sick Leave	597,533	561,350
			Total Operating Reserve	<u>\$ 2,707,128</u>	<u>\$ 2,146,933</u>
			Total Liab & Other Credits	<u>\$ 74,405,266</u>	<u>\$ 63,630,044</u>

¹ See full audited Financial Statements for disclosures and details regarding pensions and OPEB.

² Grants Receivable - Restricted pertains to the Lead Water Service Lateral Replacement Program funded by the DNR.

³ Receivable related to the SWU LSL loan program.

⁴ Appropriated funds include \$9,550,000 in American Rescue Plan Act funding designated to the Raw Water Improvement project.



STATEMENT OF REVENUE, EXPENSES AND CHANGES IN NET POSITION
AUGUST 31, 2022 AND 2021

	2022		2021		Incr (Decr)	% Incr/Decr
	MONTH	YTD	MONTH	YTD	YTD	YTD
Sales Revenue ¹	\$ 984,932	\$ 6,487,209	\$ 927,355	\$ 5,960,717	\$ 526,491	8.83%
Other Water Revenue ²	\$ 5,281	\$ 39,652	\$ 4,922	\$ 38,010	\$ 1,642	4.32%
Total Operating Revenues	\$ 990,214	\$ 6,526,861	\$ 932,277	\$ 5,998,728	\$ 528,133	8.80%
Operating Expenses ³	317,136	2,610,430	254,500	2,418,074	192,356	7.95%
Maintenance Expenses ⁴	60,107	542,452	111,287	628,830	(86,378)	-13.74%
Depreciation Expenses	130,596	1,063,500	129,903	1,057,524	5,976	0.57%
Taxes	106,317	821,196	107,457	824,567	(3,371)	-0.41%
Total Operating Expenses	\$ 614,155	\$ 5,037,576	\$ 603,145	\$ 4,928,994	\$ 108,583	2.20%
Utility Operating Income	\$ 376,059	\$ 1,489,284	\$ 329,132	\$ 1,069,734	\$ 419,550	39.22%
Other Income & Expense						
Non-operating Grant Revenue	11,750	75,732	2,500	34,485	41,247	
Non-Operating Grant Expenses	(11,750)	(75,732)	(12,500)	(15,000)	(60,732)	
Bond Premium	3,542	21,166	2,989	23,913	(2,747)	
Interest Earned on Investments	7,774	25,116	4,449	13,046	12,070	
Contributions ⁵	-	9,553,128	-	-	9,553,128	
Other Expense	(16,572)	(17,086)	-	(475)	(16,611)	
Misc Amortization	2,094	16,756	2,094	16,756	-	
Bond Interest Expense	(25,033)	(202,569)	(27,359)	(218,963)	16,394	
Change in Net Position	\$ 347,865	\$ 10,885,794	\$ 301,306	\$ 923,496	\$ 9,962,299	

¹ The increase in Sales Revenue is due to a rate increase that was implemented February 1, 2022.

² The increase in Other Revenues is due to a final settlement received in 2022 for the purchase of liquid alum.

³ The increase in Operating Expense is due to an increase in energy and chemical costs, UV treatment and sludge removal costs, consulting costs, and an increase in salaries over 2021.

⁴ The decrease in 2022 Maintenance Expense is due to reservoir maintenance and work on the Georgia Avenue standpipe in 2021.

⁵ The Contribution is 2022 American Rescue Plan Act funding designated to the Raw Water Improvement Project.



APPROVAL OF VOUCHERS
August 31, 2022

<u>Total Of The General Vouchers</u>	<u>\$ 1,074,336.45</u>
<u>Gross Payroll</u>	<u>\$ 179,726.80</u>
<u>Net Payroll</u>	<u>\$ 108,205.14</u>

BOARD OF WATER COMMISSIONERS

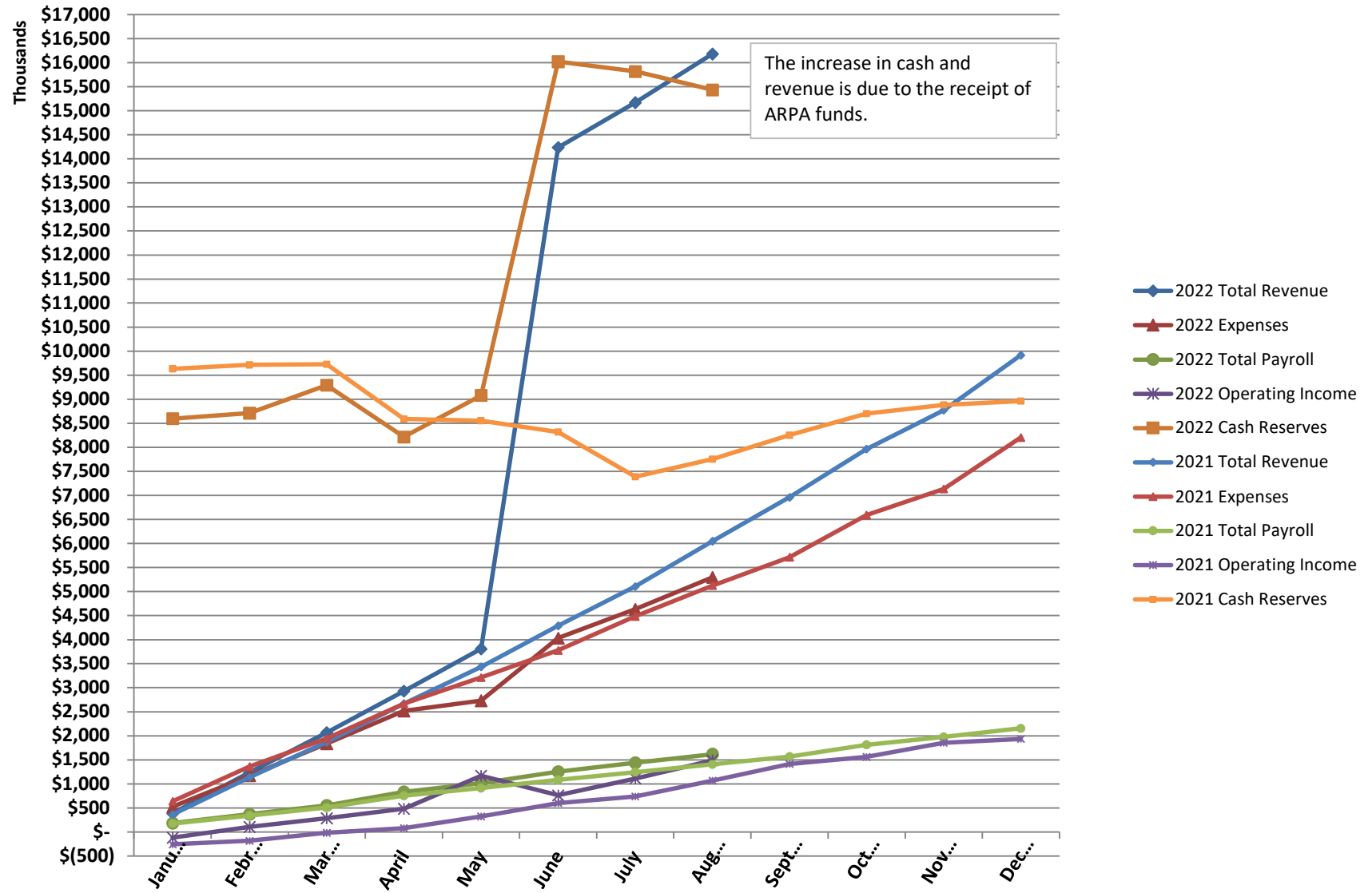
 PRESIDENT

 SECRETARY

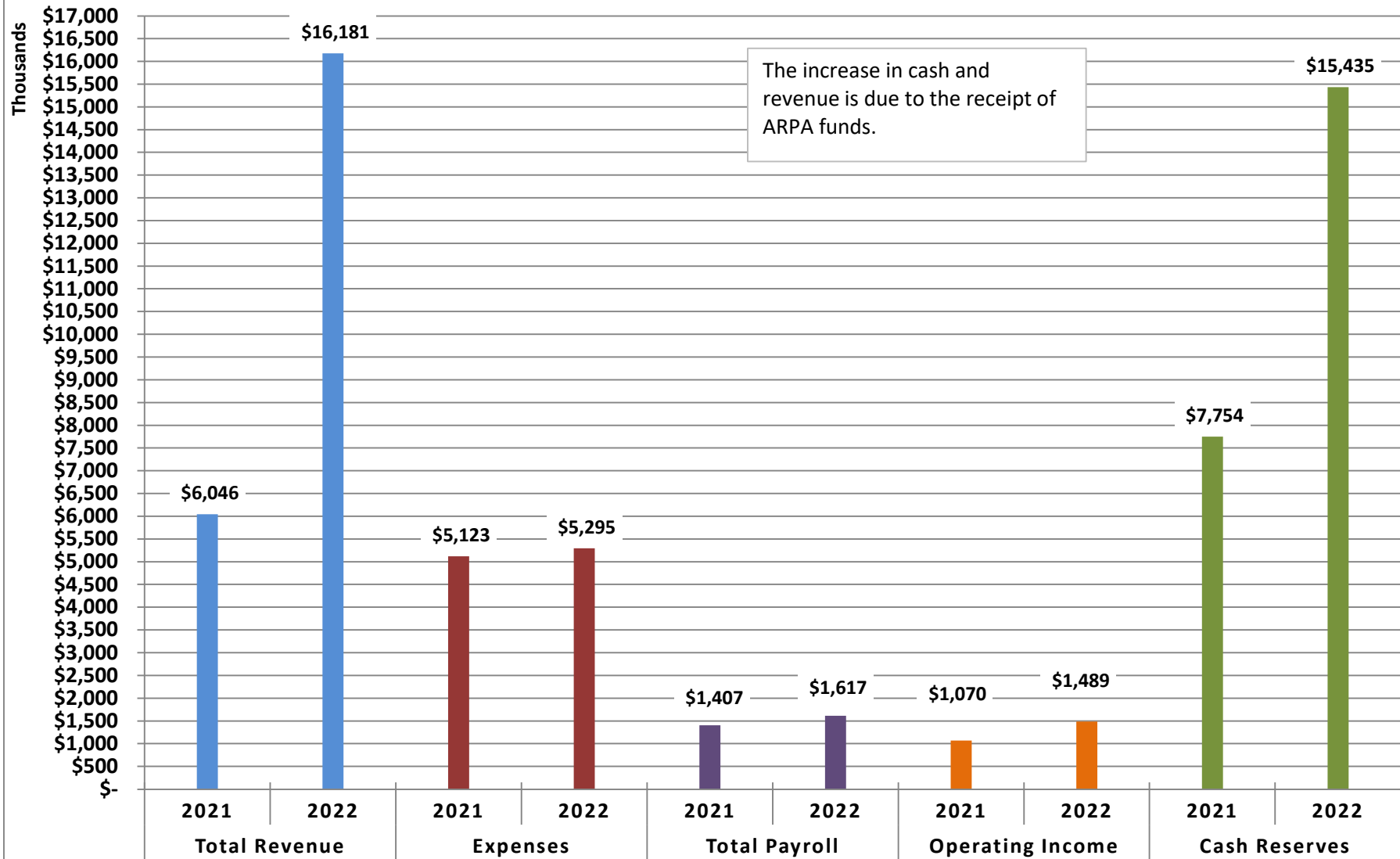
 MEMBER

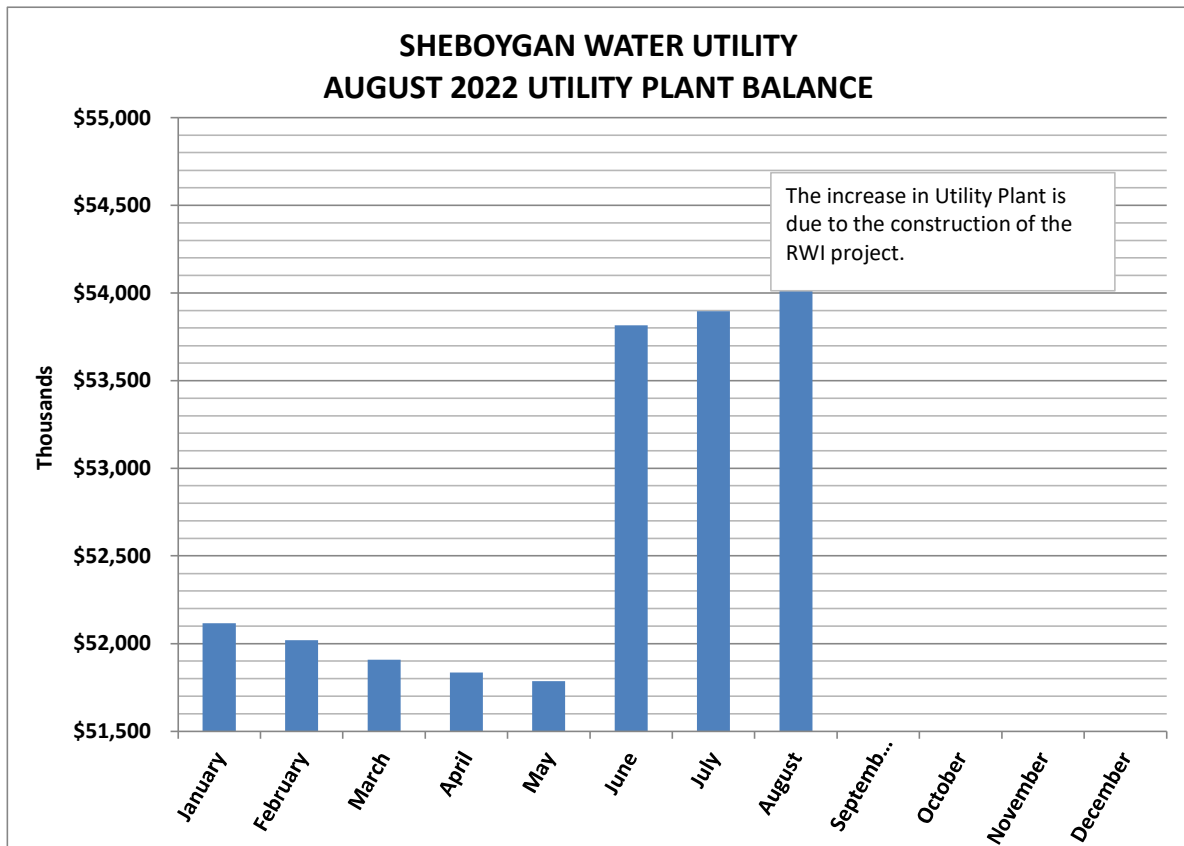
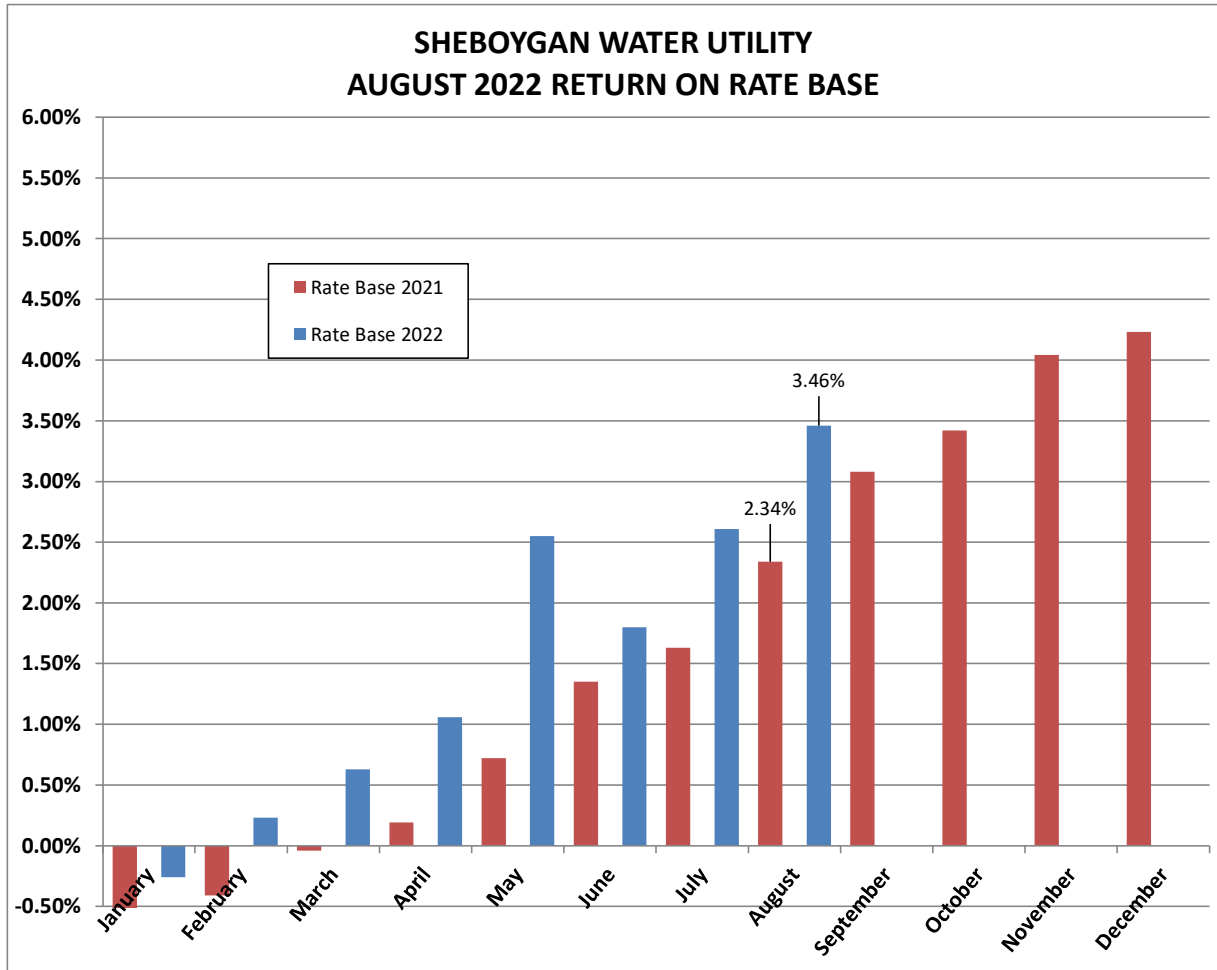
 SUPERINTENDENT

SHEBOYGAN WATER UTILITY AUGUST 2022 MONTHLY FINANCIAL TREND



SHEBOYGAN WATER UTILITY AUGUST 2022 YTD FINANCIAL POSITION







MONTHLY CONSTRUCTION-MAINTENANCE DEPARTMENT REPORT

August 2022

Distribution System Maintenance:

- Poured the concrete base for the water main trench on St. Clair Avenue.
- Completed final watermain jobsite cleanup.
- Abandoned hydrant on St. Clair Ave and N 11th St.
- Abandoned old 6" water main in 1000 block of St. Clair Avenue.
- Installed tapping sleeve and valve to eliminate a potential dead end after water main abandonment.
- Assisted contractor with problematic water service abandonment on N 12th St.
- Repaired and restored property after water main break on Moenning Road and Riverdale Drive.
- Continued pouring permanent service repair holes for the season.
- Relocated fire hydrant on South Business Drive, south of Horizon Avenue.
- Hauled in fill to replenish stock.

Building/Grounds Maintenance:

- General shop maintenance and cleaning.

Water Quality:

- Monitored and adjusted auto flushers in the system.
- Continued weekly/monthly dead end hydrant flushing.

Taps:

- 1" tap at 1209A St. Clair Ave. Lead Service was removed from the system.
- 1" tap at 1116A N 12th St. Lead Service was removed from the system.

Equipment Maintenance:

- Performed routine maintenance and repairs on construction equipment and vehicle fleet.

Training:

- Completed vendor sponsored training on our leak detection equipment.



Distribution System -- August 2022

Street Valves and Hydrant Valves Installed (including water main projects and others)

Location	Date Installed	Size ("), Jt	Installed By	Type
N.11th St. at St. Clair Ave	8/17/2022	6" MJ	SWU	G (vert)

Total Valves Installed = 1

Street Valves and Hydrant Valves Removed

Location	Installed	Abandoned	Type
St. Clair Ave. at N. 10th St. (W)		8/4/2022	G (vert)
S. Business Dr. ~2750' S of Riverdale Ave.		8/31/2022	G (vert)

Total Valves Removed = 2

Street Valves and Hydrant Valves Abandoned

Location	Installed	Abandoned
----------	-----------	-----------

Total Valves Abandoned = 0

Street Valves and Hydrant Valves Maintained

Location	Maintained	Size	By
----------	------------	------	----

Total Valves Maintained = 0

Hydrants Installed (including water main projects and others)

Location	Installed	Tr Size	Valve	By
----------	-----------	---------	-------	----

Total Hydrants Installed = 0

Hydrants Removed (including water main projects and others)

Location	Installed	Removed	Hyd Valve?
St. Clair Ave. at N. 11th St. (NW)		8/17/2022	n

Total Hydrants Removed = 1

Hydrants Abandoned (including water main projects and others)

Location	Installed	Abandoned	Tr Size	Hyd Valve?
----------	-----------	-----------	---------	------------

Total Hydrants Abandoned = 0

Hydrants Maintained/Moved (including water main projects and others)

Location	Installed	Maintained
S. Business Drive ~2760' S of Riverdale Avenue (W)	10/31/2016	8/31/2022

Total Hydrants Maintained/Moved = 1

Water Main Breaks

Location	Date	Size
Riverdale Ave at Moenning Rd.	8/20/2022	12"

Number of Water Main Breaks= 1

SUMMARY

Number of feet of 4 inch water main installed	0.0	water main
Number of feet of 6 inch hydrant lead installed	0.0	
Number of feet of 6 inch water main installed	7.8	
Number of feet of 8 inch water main installed	0.0	
Number of feet of 12 inch water main installed	0.0	
Number of feet of 16 inch water main installed	0.0	
Number of feet of 20 inch water main installed	0.0	
Number of feet of 24 inch water main installed	0.0	
Number of feet of water main abandoned or removed	7	
Number of water main breaks repaired	1	hydrants
Number of hydrants installed	0	
Number of hydrants removed or abandoned	1	
Number of hydrants maintained or moved	1	valves
Number of street valves installed	1	
Number of hydrant valves installed	0	
Number of street valves removed or abandoned	1	
Number of hydrant valves removed or abandoned	1	
Number of valves maintained	14	
Number of water connections installed	2	



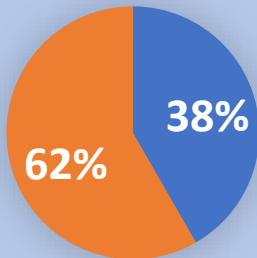
WATER MAIN AND APPURTENANCES INSTALLATION -- AUGUST 2022

Water Main Projects (including installation or abandonment of more than 3' of pipe by utility or contractors)

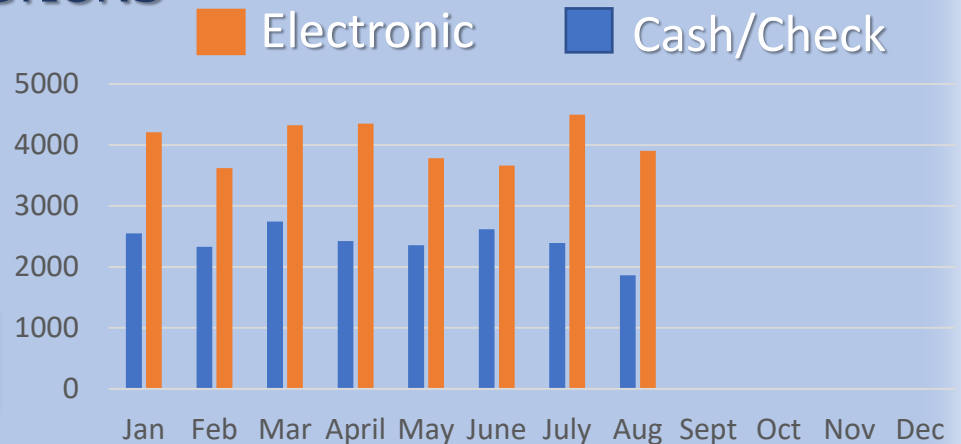
Location: 6" Water Main	Installed	New Valves	New Hyd.	New Hyd Valves	Aband. Valves	Aband. Hyd.	Remove Hyd.	Size "	Feet Installed	New Hyd Lead	Size Aband.	Feet. Aband.	Feet. Rem.	By
N.11th St. at St. Clair Ave	8/17/2022	1	0	0	0	0	1	6	7.83	0	6" CIP	7	0	SWU
Totals:		1	0	0	0	0	1	6	7.83	0		7	0	

CUSTOMER RELATIONS & FISCAL SUMMARY

PAYMENT TRANSACTIONS



6,327
Total # of August
Payments Processed



COLLECTIONS

District 1

\$1,004,108

Total Billed

\$212,993

Outstanding
After Due Date

1430

Past Due Letters Mailed

134

Disconnection
Letters Mailed

7

Properties Disconnected

\$79,471

Outstanding At
Month End

PAYMENTS BY SOURCE

	August 2021	August 2022
Payment Window <small>(Cash/Check)</small>	376	420
Drop Box Payments	201	214
Electronic Payments	3590	3906
Mail Payments	2119	1787
Total Payments	6286	6327

Payments Returned NSF **14**

UTILITY BILLS

Mailed
5,315

Total Customers Registered
Paperless
1,062

Total August
Emailed
Statements
2,785



**AUGUST
2022**

CUSTOMER RELATIONS & FISCAL SUMMARY

PROPERTY TRANSACTIONS

	August 2021	August 2022
Account Transfers <i>(Finals)</i>	195	232
Property Data Requests	103	92

PSC COMPLAINTS

0 PSC Complaint(s) Filed

ACCOUNTS PAYABLE

224 Invoice Items Paid

CUSTOMER SERVICE



202

Customer Service Email
Requests Completed



708

USS Calls Answered



43:07

USS Hours
On the Phone



119

Lead ST Calls Completed
(Incoming & Outgoing)



8:36

Lead ST Hours
On the Phone

CUSTOMER ASSISTANCE PAYMENTS

Number of Payments Received: **42**

Total Dollars: **\$6,754**

*Payments received from Wisconsin Emergency Rental Assistance Program, LIHWAP, Salvation Army, and St. Vincent DePaul for customer benefit.

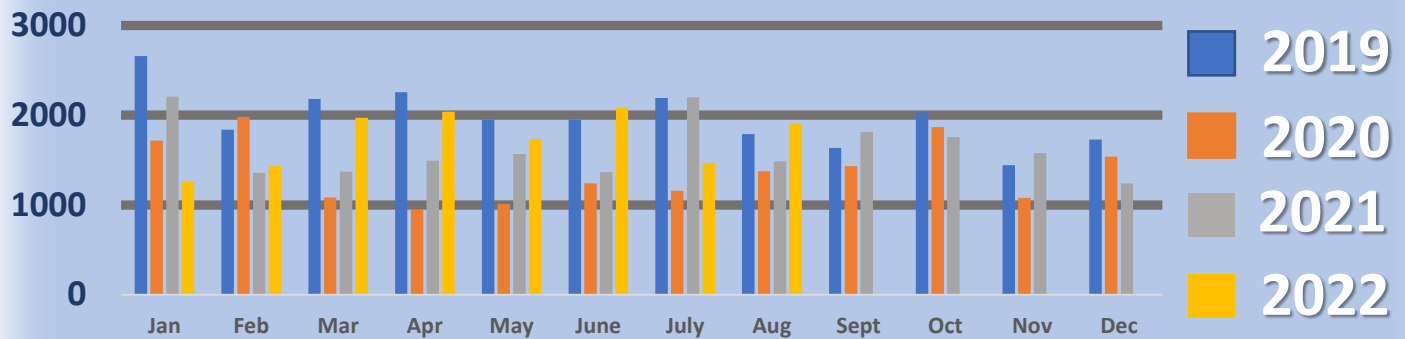
LEAD SERVICE LINE REPLACEMENT ACTIVE LOANS



**AUGUST
2022**

CUSTOMER RELATIONS & FISCAL SUMMARY

SERVICE TECH MILES DRIVEN



CROSS CONNECTION

136 Inspections by SWU
0 Inspections by Hydro Corp

0 Facilities with Compliance Issues



LEAD EDUCATION

51 WDNR Lead in Drinking Water brochures distributed at home visits

TROUBLESHOOTING WORK ORDERS COMPLETED

104 Work orders completed for high consumptions, zero/low, and checks.

LEAK ALLOWANCES ISSUED

1 Customer Requests **325** CCF Allowed @ Reduced Rate



SERVICE LEAKS

0 New Reported Leak(s)
0 Leak(s) Fixed or Off
0 Active Leak(s) Month End

METERS

153 Meters Installed/Replaced
45 Meters Tested



**AUGUST
2022**

CUSTOMER RELATIONS & FISCAL SUMMARY

FACEBOOK PAGE



1 August New Followers

743 Total Followers

WEBSITE VISITORS

3,584



2021 Visits in August: 3,542
Top Page Viewed: **Pay Your Bill**

ADDITIONAL CR/F ACTIVITIES AUGUST

- ◆ Service Techs continue their work replacing and testing water meters.
- ◆ USS issued bills to District 3 and Monthly customers.
- ◆ The newest USS is being trained on the quarterly billing process for District 1.
- ◆ CR/F implemented attachments on mobile service orders. Photos can now be attached to the service order and automatically saved to the customer account. This is beneficial for meter, meter setting, and service line photos.
- ◆ Completed quarterly maintenance visit with OnTech, the Utility's IT consultant.

**AUGUST
2022**

BOARD OF WATER COMMISSIONERS APPROVAL REQUEST

September 19, 2022 Board Meeting

Annual Inspection & Cleaning of Water Intakes

<u>COMPANY</u>	<u>QUOTE (Lump Sum)</u>
Underwater Construction Corp	\$10,260.00
Northern Divers USA	\$29,100.00
Midco Diving & Marine Services, Inc	No Bid
JF Brennan Company	No Bid

Date: September 12, 2022
To: Joe Trueblood, Utility Superintendent
From: Bill Swearingen, Operations Supervisor
Subject: Annual Intake Cleaning and Inspection

The 30" and 36" intakes are cleaned and inspected annually.

I would like to recommend approval for the proposal submitted by Under Water Construction.
The attached proposal includes cleaning/inspection services and report for a lump sum price.

Intake Cleaning and Inspection Services..... \$10,260.00



Page No:	1	UCC Proposal L-3134		Date:	August 9, 2022	
Prepared By:	(WI) Jerry Pena	Project Title:		Dive Support-Inspect and Clean 36" & 30" Intake Cribs		
Submitted To:	Mr. Swearingen	Project Location:		Sheboygan Water Filtration Plant - Lake Michigan Intakes		
Sheboygan Water Filtration Plant 72 Park Ave Sheboygan, WI 53081-2958 Bill Swearingen 920-459-3812 billswearingen@sheboyganwater.org		Proposal Basis: *Budgetary Price Based on Rates Below				
		Personnel: UCC would provide:		Maximum # of divers in the water at a time:		
		Four (4) Person Crew		One (1)		
		1 Boat Captain 100 3 Lead Diver				
Services On or About	Fall 2022	Work Hrs/Day	10	Days Per Week	2	
Underwater Construction Corporation (UCC) appreciates the opportunity to offer this proposal to Sheboygan Water Filtration for the above-referenced project. UCC would assist Sheboygan Water Filtration with the annual intake crib cleaning on the 36" & 30" intake lines. UCC will perform a pre and post cleaning video inspection on nine (9) intake funnels for the 36" intake line and one (1) intake crib for the 30" intake line. UCC understands divers will not be required to enter the intake cribs for inspections or cleaning. UCC anticipates two (2), ten (10) hour weekdays, to safely and successful complete the project.		UCC has assumed that Sheboygan Water Filtration or others will provide the following to support the previously stated services: <ul style="list-style-type: none"> • All permitting, as required. • Operational support and red tagging of equipment, as required. • Unrestricted access to the work area. • GPS coordinates of intake cribs. 				
Equipment:						
1 DOT Crew Cab 1 Ton Pickup Truck 1 28' Margaret-Mae Work Boat w/ 200 H.P. Engine (Michigan) 1 Shallow Water Dive Package 1 Dry Suit 1 3,500 Watt Generator 2 Double Diver Water Heater (Excludes Fuel) 1 3,500 - 4,500 PSI Gas-Powered Pressure Washer with 100' Hose 1 50' Length of Additional Hose 1 AED 1 Outland U/W Video System w/Audio Time/Date Console Display & 100 Meter Cable 1 Velocity Meter/Flow Meter						
No.	Description			Rate	Qty.	Sub-Total
1.01	UCC's Lump Sum Price for site services, equipment, one (1) round-trip mobilization, and formal report is:			\$ 10,260.00	1	\$ 10,260.00
1.02	UCC's Standby Day Rate that will apply for delays due to factors outside of UCC's control is:			\$ 3,110.00		\$ -
1.03				\$ -		\$ -
1.04				\$ -		\$ -
1.05				\$ -		\$ -
1.06				\$ -		\$ -
1.07				\$ -		\$ -
1.08				\$ -		\$ -
1.09				\$ -		\$ -
1.10				\$ -		\$ -
*Materials and Consumables that are not included will be invoiced at cost plus: 10%				*TOTAL PRICE \$ 10,260.00		
*Third Party Services, Bonds and Equipment that are not included will be invoiced at cost plus: 10%						
*TAXES ARE NOT INCLUDED		*ADDITIONAL TERMS AND CONDITIONS APPLY		*PRICING IS VALID FOR 60 DAYS		
Signed: <i>Jerry Pena</i> <div style="float: right;"> Wisconsin / 5144 Douglas Ave. / Racine WI 53402 / www.uccdive.com P: (877) 717-3483 / F: (414) 988-1191 / C: (269) 921-9002 / jpena@uccdive.com </div>						
The contents of this proposal and any attachments are confidential and are intended solely for the addressee. Any distribution, reproduction or dissemination is strictly prohibited.						



Page No:	T&C Page 1 of 2	UCC Proposal L-3134	Date:	August 9, 2022
Prepared By:	(WI) Jerry Pena	Project Title:	Dive Support-Inspect and Clean 36" & 30" Intake Cribs	
Submitted To:	Mr. Swearingen	Project Location:	Sheboygan Water Filtration Plant - Lake Michigan Intakes	

TERMS AND CONDITIONS

These terms and conditions are the primary overriding terms and conditions of services.

1	Except as expressly provided herein, UCC makes no other warranty or guarantee of any kind, express or implied, including any warranty of merchantability of products or for suitability of products selected or requested by others for the intended purpose.
2	Lump Sum price is based on the description, methodology, equipment, and personnel outlined in this document. Any deviation will result in a modification of the pricing structure. Any delays caused by others and beyond UCC's control may require additional compensation.
3	The Standby Day Rate will apply for delays due to factors outside of UCC's control that cause the extension of the project's operations beyond the terms included in our price.
4	All open shop services will be invoiced based on a minimum eight (8) hour day Monday through Friday at the straight time rate. Overtime hours are billable after eight (8) hours Monday through Friday and for all hours worked on Saturdays. Double-time will be invoiced for all hours worked on Sundays and Holidays as listed below.
5	All services will be invoiced based on a minimum eight (8) hour day Monday through Sunday and on Holidays at the applicable billing rate.
6	UCC-recognized company holidays are New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day. Additionally, any customer holidays that differ from UCC's will be considered UCC holidays.
7	Emergent services, defined as services requested and response required within twenty-four hours, may be subject to premium time charges (i.e., shop time, travel time, site hours [minimum eight (8) hours] and travel expense).
8	Signed manifests for time and material services or signed delay sheets are considered a customer's formal acceptance of work performed. Signed manifests and delay sheets shall also be used for final invoicing by UCC.
9	UCC will have U/W video available; however, this equipment's effectiveness is limited by in-water visibility.
10	By accepting UCC's proposal with these terms and conditions attached, you are accepting UCC's terms and conditions as identified herein.
11	Starting time for services shall be mutually agreed upon in advance and is subject to the availability of UCC's personnel and equipment.
12	Unless otherwise stated in a previously established contract, services will not be provided until the customer signs and returns this quote, or issues a purchase order referencing this quote in its entirety.
13	If a project is canceled after UCC's personnel have been mobilized, travel and/or material charges will be applicable. Related charges will be invoiced in accordance with the existing service contract or as identified in the proposal.
14	UCC assumes that the flow rate will allow for safe diving. If at any time the current velocity exceeds two (2) feet per second, the UCC management and safety departments shall be contacted prior to diving. Diving operations will not resume until hazardous conditions have been made safe. UCC is not responsible for project delays due to hazardous conditions.
15	In accordance with all Federal and State OSHA Commercial Diving Rules and Regulations 1910, Subpart "T", 29 CFR 1910.425.3 and ADCI International Consensus Standards for Commercial Diving and Underwater Operations, if a site hazard analysis reveals unforeseen conditions or change in configurations (i.e. differential pressure, live pumps, flow thru open valves, gates or other energized operating components) additional personnel and/or equipment may be required and the project cost would increase accordingly. Such conditions will be communicated in advance to the client.
16	UCC management and safety departments will solely determine whether conditions are conducive to safe diving operations per UCC's Safe Practices Manual to include extreme cold temperatures or excessive heat which will result in project delays and additional cost to the overall budget. Client is responsible for all weather delays.
17	UCC is liable for their employees; client is responsible for any individual, including himself, herself, or any invitee or other contractors around UCC's work site and our equipment.
18	Client is responsible for having permits in place, if required. If permits, bonding, or additional insurance are required to be supplied by UCC, additional costs would be invoiced as additional services.
19	Unless otherwise stated, UCC is not responsible for liquidated or consequential damages.
20	UCC understands that prevailing wages will not apply on this project; therefore, pricing is based upon compensating our personnel in accordance with our in-house wages.
21	UCC assumes that dual (multiple) classifications can be utilized daily for each employee on the project as required.
22	Per Diem will be billed at \$ 145/day/person including non-working weekend days while on assignment. In the event the per diem rate does not adequately cover hotel/motel costs and meal allowance due to regional or seasonal price fluctuations, UCC reserves the right to invoice for hotels/motels at cost plus 10%. When this billing is necessary, UCC will also invoice for daily meal allowance at \$ 50/day/person.

PLEASE SIGN THE LAST PAGE OF THESE TERMS AND CONDITIONS

In the event you do not have an established purchase order form or process, please provide billing address, sign, date, and return this proposal via fax to (860) 767-0612, or PDF via email to bbraley@uccdive.com. By signing this proposal, this will constitute a mutual agreement and you are acknowledging acceptance of this proposal and its terms and conditions in its entirety.

AN EQUAL OPPORTUNITY EMPLOYER

The contents of this proposal and any attachments are confidential and are intended solely for the addressee. Any distribution, reproduction or dissemination is strictly prohibited.



Page No:	T&C Page 2 of 2	UCC Proposal L-3134	Date:	August 9, 2022
Prepared By:	(WI) Jerry Pena	Project Title:	Dive Support-Inspect and Clean 36" & 30" Intake Cribs	
Submitted To:	Mr. Swearingen	Project Location:	Sheboygan Water Filtration Plant - Lake Michigan Intakes	

TERMS AND CONDITIONS

These terms and conditions are the primary overriding terms and conditions of services.

- 23** All-inclusive daily rates, if provided, will not be prorated for partial day services, unless expressly agreed to in advance.
- 24** All pricing, as offered, excludes any applicable sales and/or use tax. For any services performed outside the state of CT, UCC is not responsible for collecting of/or remittance of sales tax.
- 25** Invoices for services will be submitted monthly or upon completion and are payable in full within thirty (30) calendar days. Past due accounts are subject to 1.5% interest per month (18% per annum) on the unpaid balance as well as any costs and expenses including legal fees incurred by UCC to collect any amount due hereunder.
- 26** In the event an invoice is not paid within our terms, or within previously agreed upon terms, it is UCC's policy to file a lien following 60 days of delinquency.
- 27** UCC's proposal is valid for sixty (60) days from date of issuance unless otherwise noted.
- 28** The parties consent to jurisdiction in a Michigan state court for any action hereunder, and the parties waive a trial by jury in any action hereunder.
- 29** During the inspection process if extensive abnormalities are discovered and are deemed to be documented or additional revisions are requested within the comprehensive written report as directed by the client and or site representative UCC will invoice additional time required as necessary per the price schedule proposed herein. Such conditions will be communicated in advance to the client.
- 30**
- 31**
- 32**
- 33**
- 34**
- 35**
- 36**
- 37**
- 38**
- 39**
- 40**
- 41**
- 42**
- 43**
- 44**

Signed: _____

Date: _____

Billing Address: _____

In the event you do not have an established purchase order form or process, please provide billing address, sign, date, and return this proposal via fax to (860) 767-0612, or PDF via email to bbraley@uccdive.com.

By signing this proposal, this will constitute a mutual agreement and you are acknowledging acceptance of this proposal and its terms and conditions in its entirety.

AN EQUAL OPPORTUNITY EMPLOYER

Date: September 9, 2022

To: Joe Trueblood, Utility Superintendent

From: Bill Swearingen, Operations Supervisor

Subject: Filter 5 Summary Report

This report is meant to provide a timeline of events in identifying filter #5 IMS cap failures and discussions with the underdrain representative and manufacturer.

The report also includes contingencies planning items and associated timelines:

- Operational Changes
- Media Removal/Standby Media
- IMS Cap Replacement Options
- Catastrophic Underdrain Fail
- Emergency Underdrain Design

Filter 5 Event Timeline

August 24, 2022

During our annual inspection we found a low spot in filter 5 media. Ops staff dug the area up for further inspection and found that the beaded underdrain cap was cracked and had failed.

The filter was last inspected in December 2021. At that time, there was no indication of an underdrain failure, and the filter turbidity has been normal. Ops staff did well and caught this in the early stages before a catastrophic failure. Water quality standards were maintained, and filter effluent turbidity remained unchanged during the event.

The filter is currently out of service.

I initiated contact via email with Drydon (Leopold Rep) and Xylem (Leopold Underdrain Manufacturer). Xylem responded indicating that it's possible that a simple IMS cap replacement, with sealant and screws could be a good course of action. But before doing so, they suggested the following:

- Removal of damaged IMS cap and evaluation of volume of media that migrated into the underdrain system
 - Worst case the system will need flushed and a few more IMS cap will require replacement
- Test of the structural integrity of the grout to ensure the underdrain system was not jeopardized
 - Hammer test (tapping of grout joints and listening for hollow or solid sounds)
 - Drill/water test of grout joints to determine grout/basin floor retention (if hammer yields questionable results)

August 25, 2022

It was determined that the media needed to be removed to complete a more thorough inspection. I contacted three different hydrovac vendors for media removal: Alberts HydroVac, CoreVac, and Valley HydroVac. Valley HydroVac was the only vendor that responded.

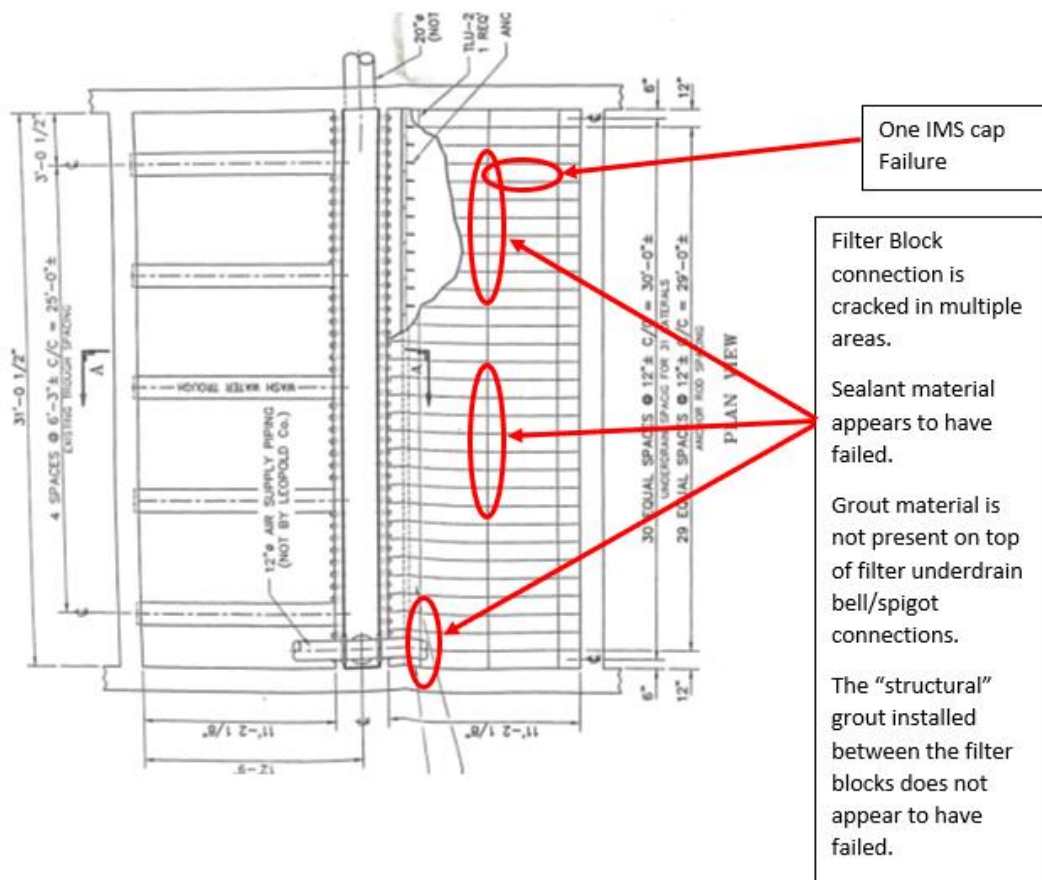
August 26, 2022

Valley HydroVac indicated they would be able to remove the media with his two vac trucks. They anticipated 1 day to completely remove the media in the south bay. The media was hauled off site and stored on N. 36th street utility property. South filter bay media was removed on August 26th.

August 27, 2022

I completed an initial inspection with photos and observations. There appeared to be only one IMS cap that has failed. No "filler" grout appeared to have failed as with filter 10 and 11 (this would be the grout installed between the filter blocks). But did I find multiple areas where grout at the filter underdrain bell/spigot plastic connection itself is cracked. Sealant material is also present and appears to have failed at these connections. Details and photos below:

Filter Bay Overview- Damaged area locations



IMS Cap Failure



One IMS cap fail.

No grout is present at the filter underdrain bell/spigot connection.

Filter underdrain bell/spigot connection is also cracked in multiple areas

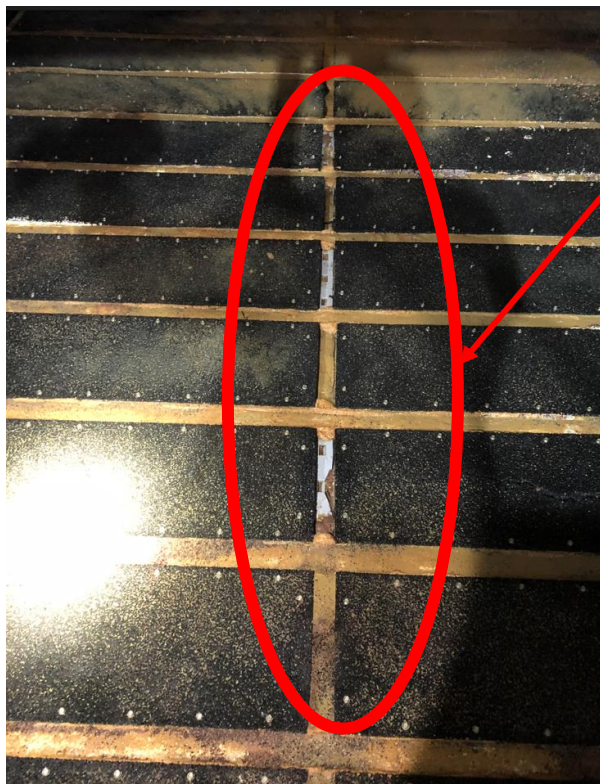


Filter underdrain bell/spigot connection, grout, & sealant failure



No grout is present at the filter underdrain bell/spigot connection.

Filter underdrain bell/spigot connection is also cracked in multiple areas

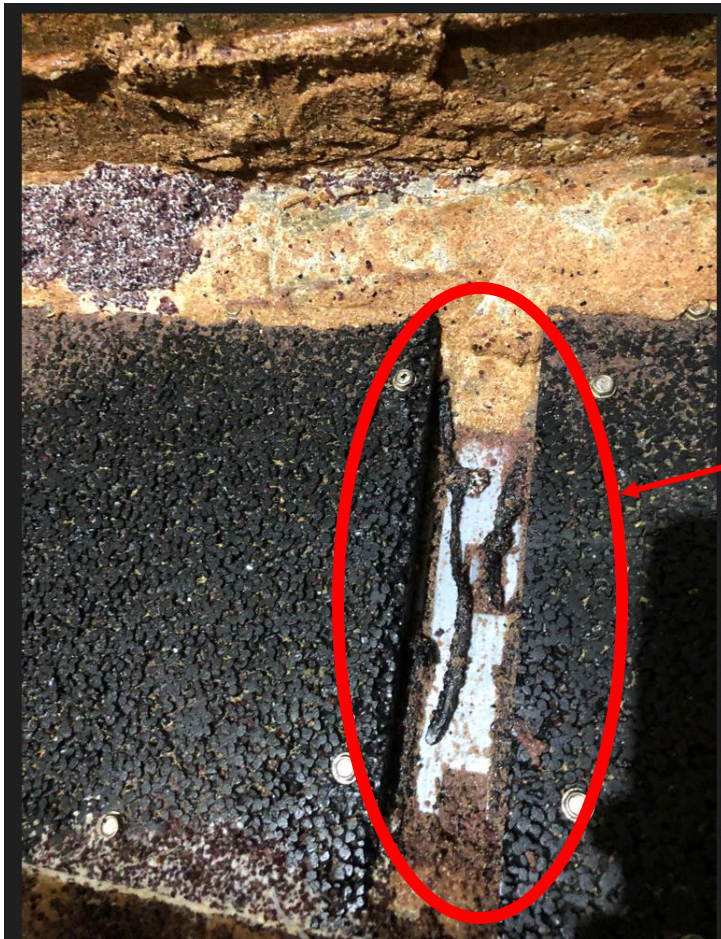




No grout is present at the filter underdrain bell/spigot connection.

Filter underdrain connection is cracked





No grout is present at the filter underdrain bell/spigot connection.

Sealant material is present and appears to have failed.

August 29, 2022

The decision was made to remove media from the north bay based on initial inspection and observations in the south bay underdrain. Ops staff took video footage during backwashing and found several end cap sealant fails. I emailed Drydron and Xylem the inspection report and video of additional end cap sealant fails. Xylem responded with three “engineering guidelines” for repairs:

1. IDENTIFICATION AND REPAIR OF LEAKS FOR UNDERDRAIN BELL & SPIGOT JOINTS
2. I.M.S CAP FIELD INSTALLATION PROCEDURE
3. SEAL REINFORCEMENT REPAIR

NOTE: These guidelines were dated 2007 and 2013. The utility was never informed of these “service announcements”. Rather, Xylem refers to them as product improvements.

Ops staff discussed repair work internally, with having uncertainty on the life expectancy and reliability of the proposed repairs. More information was needed from Xylem.

August 30, 2022

At this point, several items remained unclear, so a teleconference was scheduled with Xylem and Drydron to address additional concerns. CDM Smith on behalf of the utility was also present. Topic's of discussion:

- 1) How can we determine if the O-rings are properly placed and no leaks are present? Is there a possibility of having someone from Xylem available to make this determination. If the O-rings are compromised, we aren't clear if the repair can proceed.
- 2) There is a sense that IMS caps are partially clogged, and, in the event of repairs, we should consider replacing all of them and making the additional screw modification. For one bay, I believe that is 62 caps, plus partials. Does Xylem have availability in short timeframe for that amount?
- 3) Given this damage, we think it makes sense to investigate the other bay on this filter and it might make sense to replace those caps as well. So that would be another 62, plus partials.
- 4) What is the availability/timeframe of replacing original IMS cap with new/improved laser-etch caps if those are determined to be the best solution to the failure? Is this feasible?
- 5) Regarding sealant failure, if multiple IMS caps are leaking in a given filter, this could have the effect of reducing the head drop measured across the filter bed and this could make it appear to have a normal head loss and flow rate even if the caps are significantly plugged. As we have direct visual observation of the exposed caps on #5 leaking during a simulated backwash, we would have to assume other caps in other filters are also leaking during backwash.

The Superintendent made Xylem aware of additional backwash water testing that Operations staff conducted. Testing revealed about 92% of the end cap sections are showing seal failure and backwash water is bubbling out of those areas. It was discussed that this demonstrates that backwash water is at least partially leaking out of those areas rather than going through the cap material. This suggests that significant areas of the caps are plugged and/or the end of the caps are flexing in a very significant fashion. The evidence of the actual cracked cap further suggests stress beneath that cap at a high level due to plugging and caused that damage even with water leaking out the end.

Xylem and Drydron decided that they wanted to schedule an onsite inspection with their service tech to help determine the condition of the underdrain and existing IMS caps. Xylem also requested that the utility ship IMS caps for further evaluation and testing.

August 31, 2022

WDNR was made aware of the filter failure and notification of it being taken offline.

September 7, 2022

Xylem arrived onsite at 7:30am. Mark White from CDM Smith was also present on behalf of the utility. Xylem staff quickly began inspection work regarding filter #5: further inspection on the grout, underdrain, and IMS caps. They did find one additional IMS cap fail in the north bay.

At the request of Xylem, ops staff also conducted filter washes on filter 6, 10, and 11. Xylem wanted to monitor the pressure across the IMS caps and backwash performance. It was noted that filter #6 headloss/pressure during backwashing was high and not ideal. Filter #11 was not “abnormally” high and filter #10 was good (new IMS cap in 2018). Xylem will include the pressure data in their report for follow-up.

Xylem’s lab reported a preliminary hydraulic test on one of the shipped IMS caps: the headloss was ~ 100” at 15 gallons per minute per square foot backwash rate. Which is much higher than normal. Typically, you would expect to see approximately 16” of headloss. Additional headloss testing will be performed next week after further prep is completed.

Furthermore, Xylem will generate a complete inspection/service report by September 20th and schedule a follow-up meeting thereafter.

Contingency Planning

Operational Changes

Operations department has implemented changes to backwashing operations to further reduce risk of over pressurizing the IMS caps:

1. Filter Run Hours: Filter's need to be washed every 100hrs or one per shift. This may prevent any further clogging of the IMS cap.
2. Wash Valve Operations: To help reduce the pressure across the IMS cap, staff need to wash at a lower rate. Typically, the wash valve is set at 62%-65% during a high wash. We need to adjust this setpoint to 50%-52% and extend the length of the wash. Staff will need to keep in mind the backwash basin capacity before filter washes.
3. OM Techs will be installing pressure gauges on the filters to monitor pressure across the caps.
 - a. Pressure gauges should be delivered by September 14th. Plumbing work will need to take place, installation work will begin September 19-30. Pressure data testing can begin September 30th.

Media Removal

Valley Hydro Vac truck operations will take two days to remove media. CDM Smith has indicated that there is a vac truck company with "clean trucks" specifically used for filter media. This is another resource that would be available for media removal and maintain the ability to reinstall the media once underdrain/cap repairs are complete. Timeline is estimated 2-4 days

Media Standby

Media quote received from Red Flint Sand and Gravel, LLC. With an 8–10-week delivery timeline. A total of 56 Super Sacs will need to be stored on utility property as standby. North 36th Street, Paine Ave, EAPS, and Taylor Reservoir locations have been discussed for storage. Temporary cover will need to be provided to protect media from the elements.

Spot Replace Damage IMS Caps

The idea of replacing the damaged IMS caps with the original beaded caps and keeping media on standby was acknowledged as being a good contingency plan, but collectively staff feels this is a temporary fix. Staff are very willing to be available at a moment's notice to put filter 5 back into service if there was an emergency. Media can be installed in 2-3 days.

IMS Cap Full Replacement

Pressure Washing Existing IMS Caps:

- Ops staff have been removing additional caps and conducting testing. They've used pressure washing to clean existing IMS caps to get the IMS cap weight back to its original ~8lbs vs 10lbs, indicating that the IMS cap is free of material. Ops staff continue to investigate the possibility of leaving the caps installed, pressure washing from the top, and then backwashing from the underdrain side. But this may not dislodge the fines/sand trapped in the cap, but this has merit.
- Media: Staff have also measured that 3"-6" of media is present in the underdrain (measured via underdrain orifices with wire into the bottom of underdrain). The media that is present in the underdrain will need to be removed via wash water.
- Testing: A headloss/pressure test across caps without media can be measured for underdrain performance. If the pressure data follows the Leopold spec curve and no visual sealant leaks are present, then media could be installed, and filter reliability is improved. Although the caps may be "clean" it's unknown that they have not been compromised due the sealant fail and flexing.
- Labor: Staff can remove existing IMS caps, clean and reinstall with new sealant. This work is labor intensive and challenging.
- This approach is feasible. However, this comes with uncertainty if media cannot be removed entirely.

IMS Cap Replacement with Improved Laser Etched IMS Cap:

- If Xylem were to supply replacement upgraded IMS laser etched caps, ops staff would only need to remove existing caps and replacement with laser etched caps and new sealant.
- Media: Staff have also measured that 3"-6" of media is present in the underdrain (measured via underdrain orifices with wire into the bottom of underdrain). The media that is present in the underdrain will need to be removed via wash water.
- Testing: A headloss/pressure test across caps without media can be measured for underdrain performance. If the pressure data follows the Leopold spec curve and no visual sealant leaks are present, then media could be installed, and filter reliability is improved.
- Labor: Staff can remove existing IMS caps and install upgraded laser IMS cap with new sealant. It is unknown how labor intensive and challenging the installation work, but if Xylem can provide guidance that may be help.
- This approach is feasible. However, this comes with uncertainty if media cannot be removed entirely.

NOTE: IMS cap cleaning and/or replacement does not address cracks at the bell and spigot joints. Xylem does offer engineering guidelines for these bell/spigot repairs, but at this time, it's unknown if these repairs will maintain the underdrain's structural integrity.

Both options could return the filter to service quickly and with confidence. The filter can arguably be returned to service within 8-10 weeks based on media delivery.

Future IMS Cap Failures

Media would need to be replaced in other filters to complete IMS cap cleaning/maint work. This doesn't seem very cost effective at \$56K. But if staff were to see additional signs of cap failures on other filters, staff felt that they would not need to remove media entirely, but rather spot replace the cap and continue service. This would be more of a "band-aid" approach, but the filter is still serviceable. Xylem indicated that they could ship overnight a replacement IMS cap. Ops staff can install within 2-3 days.

Catastrophic Underdrain Fail

If there is a grout failure and a filter underdrain is lifted, then that is catastrophic.

It is probable, that the utility may have no choice but to direct replace with a Xylem XA underdrain system; because the original underdrain design drawings can be modified more quickly than a new design, and project contract can be expedited. This new style underdrain system was installed on filter #10 in 2018. Based on 2018 filter 10 replacement value and inflation, estimated replacement cost would be ~\$325,000.00 (Xylem XA underdrain system). Underdrain replacement project is estimated to have a 9–10-month lead-time.

Emergency Underdrain Design

CDM Smith is reviewing filter 5 design and different underdrain alternatives for the utility. They will provide an alternative report that include emergency design work based on different underdrain designs and project lead times. This report will be ready for review at the September 19th board meeting.

Red Flint Sand & Gravel, LLC

1 American Blvd.
 PO Box 688
 Eau Claire, WI 54702
 Phone: (715) 855-7600
 Fax: (715) 855-7608



DATE: September 9, 2022
TO: Bill Swearingen
 Sheboygan Water Utility
FROM: Kaylie Berlin
SUBJECT: Granular Filter Materials
QUOTE: QTE220830E12-01REV1

Phone: 920-459-3812
 Email: billswearingen@sheboygenwater.org

SHEBOYGEN, WI

Listed below is our quotation for the Red Flint products you requested, quoted with delivery to Sheboygen, WI. Our product pricing will remain valid for 30 days; however, Red Flint reserves the right to re-quote the media as conditions change and update the purchase order pricing accordingly, and freight rate at time of shipping will apply. Our terms are net 30 days, with 1.5% interest charged per month on all account balances over 30 days. Red Flint imposes a surcharge of 2% on the transaction of Visa, MasterCard, Discover, and American Express credit cards, which is not greater than our cost of acceptance. We do not surcharge debit cards.

Red Flint granular filter materials have been used in municipal and industrial filtration applications since 1917. Red Flint filtration media is produced to meet exacting size and uniformity specifications and meets or exceeds the AWWA B100-16 Standard (Granular Filter Materials) and is NSF/ANSI Standard 61 (Drinking Water System Components – Health Effects) certified for quality and purity.

ITEM CODE	ITEM DESCRIPTION	QUANTITY
AC31020	Garnet #8/12	6 (21.43 cuft) super sacks
AC38020	Garnet #60	10 (23.81 cuft) super sacks
AB39010	Filter Sand 0.45-0.55mm, UC<1.5	18 (40 cuft) super sacks
AC24030	Anthracite 0.95-1.05 mm UC< 1.4	22 (45 cuft) super sacks
PA14099	Pallets- Garnet	16 pallets
PA11099	Industrial Pallets	18 pallets
PA13099	Pallets- Anthracite	22 pallets
Material Subtotal:		\$42,318.50
TA12099	Estimated Shipping & Handling	2 flatbeds
TA13099	Estimated Shipping & Handling- Garn	1 flatbed
TA13099	Estimated Shipping & Handling- Anth	1 flatbed
Freight Subtotal:		\$9,975.00
TOTAL USD:		\$52,293.50

Additional Notes:

1. In order to meet your delivery schedule, Red Flint requests that a Purchase Order be issued **8-10 weeks** prior to your estimated shipping date. This lead time **does not** include transit time to your location.
2. Independent Laboratory Testing is not included in the quoted price.
3. **Shipping & Handling price is based on current rates and fuel surcharge. Actual rates and surcharge at the time of shipping will apply.** Delivery will be made via flatbed truck; a forklift is needed to remove the pallets from the truck. After the first hour of truck unloading, there is an \$85/hour demurrage charge for any further unloading time.

4. We advise all of our customers to account for the volatility of the shipping market in their project contingency plans. We will pass on increases, should they occur on this project, when we invoice. If reductions were to occur, we will also pass on those savings at invoice.
5. Bulk Density of Sand & Gravel = 100 lb/cubic foot.
6. Bulk Density of Garnet #8/12 = 140 lb/cubic foot.
7. Bulk Density of Garnet #60 = 126 lb/cubic foot.
8. Bulk Density of Anthracite = 50 lb/cubic foot.
9. An additional 5% of each material has been included in the quoted total to allow for skimming.
10. Prior to accepting a purchase order, Red Flint will provide updated and current freight rates. The freight rates at time of shipping will apply; rates will be updated after purchase order no less than every 30 days for the duration of the project as freight rates change
11. Anthracite and Garnet pricing and availability is extremely volatile, and pricing and availability are quoted based on current availability. This quotation is an estimate based on current pricing and availability and is not guaranteed. Actual price may change prior to shipment, and Red Flint will advise the customer of any anticipated price or lead time increases prior to shipment. Red Flint will immediately re-quote as conditions change and the purchase order pricing will be adjusted accordingly.
12. Red Flint shall not be liable for any delay or failure in delivering any of the products if such delay or failure shall be due to one or more of the following causes: fire, strike, lockout, dispute with workmen, pandemic, flood, lightning, accident, delay in transportation, shortage of fuel, inability to obtain material within quoted prices, war, embargo, demand or requirement of the United States or any governmental or war activity, or any other cause whatsoever beyond the reasonable control of Red Flint. In addition, Red Flint shall not be liable for any delays or failure attributable to failure of any materials supplier or freight carrier to perform any of its obligations in a timely manner. In the event of any such delay, Red Flint's obligations related to such products shall be excused for the period of such delay and the time for the performance shall be extended by a period equivalent to such delay.

Media Characteristics:

Garnet:

Specific Gravity: 3.6 (exception to the AWWA B100 standard required)

Anthracite:

Specific Gravity: >1.6

Filter Sand:

Specific Gravity: >2.6

Please advise if we can be of further assistance by calling Red Flint at (715) 855-7600 or you can email me at kaylie.berlin@redflint.com. Purchase orders can be sent to sales@redflint.com. Thank you for considering Red Flint Sand and Gravel.

REQUISITION

SHEBOYGAN WATER UTILITY

REQUISITION DATE 09/13/2022

Item 9.

VENDOR: BADGER METER INC
4545 W BROWN DEER RD
P. O. BOX 245036
MILWAUKEE WI 53224

SHIP TO 72 Park Ave Sheboygan WI 53081

DATE REQUESTED BY 09/20/2022

REQUISITION NO. 4933

QTY	ITEM #	INVENTORY #	DESCRIPTION	UNIT PRICE	TOTAL PRICE
360			M25 Plastic disc meter 5/8" x 7 1/2"--5/8" bore, bare	55.51	19,983.60
180			M25 Plastic disc meter 5/8" x 3/4" x 7 1/2"--3/4" bore, bare	55.51	9,991.80
10			Part No. 102-3388, 1" M70 disc meter w/ Orion ME	355.99	3,559.90
			Total Freight Misc		
NOTE:					
TOTAL					33,535.30

☐ CALL IN PURCHASE ORDER NUMBER PREPARED BY davew
PHONE NO. 800-616-3837

☐ FAX PURCHASE ORDER REQUESTED BY DW
FAX NUMBER: 888-371-5982

☐ SEND ORIGINAL PURCHASE ORDER TO VENDOR APPROVED BY joe

☐ ALREADY ORDERED