



OFFICIAL NOTICE AND AGENDA  
of a meeting of a City Board, Commission, Department  
Committee, Agency, Corporation, Quasi-Municipal  
Corporation, or Sub-unit thereof.

A Meeting of Wausau Water Works Commission will be held in the  
Council Chambers, 1st Floor City Hall, Wausau, WI 54403 at 1 : 30 p.m. on  
Tuesday, November 2<sup>nd</sup>, 2021.

**Members: Katie Rosenberg (President), Dawn Herbst, Jim Force, Joe Gehin, John Robinson**

**AGENDA**

1. Approve Minutes of October 5<sup>th</sup> & 14<sup>th</sup> 2021 Meeting.
2. Director's Report on Utility Operations
  - DWTF Update
  - Locates
  - Update on LSL's
  - Supplemental Lead and Copper Letter from WDNR
  - Wastewater Plant Permit Limits
  - Sewer Maintainer Position Reposted
  - Contractor Retained to Recut Lateral on Myron Street
  - Industrial Park Lift Station
  - Update Wastewater Plant Expansion
  - Purchase of Fork Lift Authorized by Board of Public Works
  - Utility Financial Reports through September 30, 2021.
3. Discussion and Possible Action Requesting Approval of the Sole Source Purchase of Clar-Ion 415 for year 2022.
4. Discussion and Possible Action Requesting Approval of the Sole Source Purchase of Clar-Ion 700 for year 2022.
5. Discussion and Possible Action Requesting Approval of the Sole Source Purchase of Aqua Ammonia for year 2022.
6. Discussion and Possible Action Requesting Approval for a Purchasing Agreement Extension for Liquid Carbon Dioxide for 2022.
7. Presentation on Solar Options for the DWTF.
8. Presentation on the Inflow/Infiltration Study Results.
9. Discussion and Possible Action on the Contract for Treatment of Raw Sewage with Schofield.
10. Discussion and Possible Action a Change Order for the Industrial Park Lift Station Construction and Force Main Cleaning Project.

Adjourn.

*\*Next meeting scheduled for **December 7, 2021 at 1:30 P.M.***

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THIS NOTICE POSTED AT CITY HALL AND EMAILED TO CITY PAGES AND DAILY HERALD: October 28<sup>th</sup>, 2021 at 10:25 a.m.

This meeting is being held in person and via teleconference by calling 1-408-418-9388. The Access Code is 2488 994 0903 and the password is WausauWater111. All public participants' phones will be muted during the meeting. Members of the public who do not wish to appear in person may view the meeting live over the internet on the City's YouTube Channel <http://tinyurl.com/WAAMedia>, live by cable TV, Channel 981, and a video is available in its entirety and can be accessed at <https://tinyurl.com/wausaucitycouncil>. Any person wishing to offer public comment who does not appear in person to do so, may e-mail [michelle.weasler@ci.wausau.wi.us](mailto:michelle.weasler@ci.wausau.wi.us) with "Water Commission public comment" in the subject line prior to the meeting start. All public comment, either by email or in person, will be limited to items on the agenda at this time. The messages related to agenda items received prior to the start of the meeting will be provided to the Chair.

In accordance with the requirements of Title II of the Americans with Disabilities Act of 1990 (ADA), the City of Wausau will not discriminate against qualified individuals with disabilities on the basis of disability in its services, programs or activities. If you need assistance or reasonable accommodations in participating in this meeting or event due to a disability as defined under the ADA, please call the ADA Coordinator at (715) 261-6590 or [ADAServices@ci.wausau.wi.us](mailto:ADAServices@ci.wausau.wi.us) to discuss your accessibility needs. We ask your request be provided a minimum of 72 hours before the scheduled event or meeting. If a request is made less than 72 hours before the event the City of Wausau will make a good faith effort to accommodate your request.



## **Minutes of October 5, 2021**

A meeting of the Wausau Water Works Commission was called to order at 1:30 p.m. in City Hall on Tuesday, October 5<sup>th</sup>, 2021. In compliance with Wisconsin Statutes, this meeting was posted and receipted for by the Wausau Daily Herald on October 1<sup>st</sup>, 2021.

Members Present: President Rosenberg, Commissioners Robinson, Herbst, Gehin, Force.  
Others Present: Eric Lindman, Scott Boers, Valerie Swanborg, Dave Erickson, Ryan Dwelly, MaryAnne Groat, Nate Miller, Stephen Opatik/ Becher- Hoppe. Via Webex: Debra Ryan

### **1) Approve Minutes of September 7<sup>th</sup>, 2021 Meeting.**

Robinson moved to approve the minutes of the September 7<sup>th</sup>, 2021 meeting. Seconded by Herbst.

Motion to approve the minutes carried 5-0.

### **2) Director's Report on Utility Operations.**

Lindman asked if there were any questions on the specific items.

Robinson requested if we can be provided more detailed description at the next PIM (Public Information Meeting). Requesting if we can provide information that will be presented by a third party regarding solar and outlining the reason and what it is we are looking to do there.

Lindman replied there's a contact from Midstate Technical College who may be interested in providing a presentation regarding renewable energy. There's a lot of information we are gathering now so it was important that we got feedback from the neighborhood group, and are looking at different costs and size of the arrays with the comments we had.

Force questioned timing of next PIM as the neighborhood representative Paul might be able to have an input in this and could offer critiques.

Lindman replied looks like early November but before Thanksgiving and asked if the commission wanted to see presentation ahead of the next PIM meeting.

Force states he would be in favor of that.

Gehin questioned the switch over to Class A Biosolids as he thought those were going into landfills.

Lindman replied the dried biosolids will go to the landfill until the DNR determines the dried solids meet Class A. There will be an interim period of Class B, more than likely it would go into the landfill.

Force asked what the timeline would be for the approval to switch to Class A.

Erickson states there is no specific timeline for the switch but there are still some details to work out and meeting requirements so plan on the interim of taking it to the landfill.

Gehin questioned westside interceptor work, if it were full replacement or lining?

Dwelly replied looking at lining as a method, and revising specifications for the lining.

Working with Strand of specifications. Looking at S 11th Ave by Kolbe & Kolbe going east to 3<sup>rd</sup> Ave where there was a collapse over a year ago. There are other manholes and looking at another on Park and Imm, maybe do a liner as it's more resistant in long term than a full replacement.

Director's Report placed on file.

### **3) Discussion and Possible Action Awarding a Proposal for the Development of a Lead Service Line Replacement Program.**

Lindman states an RFP was sent out to hire an engineering firm to assist us with developing a replacement program for DNR approval; as is required by the LCR revisions. Received two proposals and both were reviewed and rated by four members. All four reviewers recommend awarding to Clark Dietz.

Robinson questioned what the product would look like and if we will meet the expectations on the utility staff.

Lindman states we will meet the expectations but we need to get good estimates however we do this we will use staff time and resources and need a full written plan. Replacement plan is at least 15 years if not more, but ultimately the Commission would have to determine if this will be affordable or not on the city side.

Robinson likes Trupani's proposal better and does not feel the need to rely on others to develop ordinances. The Commission can do this and it would be cost savings to us and questioned if we can negotiate on terms.

Lindman states we could, but his take back from Trupani was that they had no experience putting a plan like this together, this would be their first one.

Gehin stated if material inventory documentation went to copper in the mid 1960's.

Boers replied Fall of 1969.

Gehin states it is safe to say any home built prior to that has lead service. He makes a suggestion if we can go to assessor's office with age of home and we would have a pretty good estimate.

Force asked Robinson if development/plan of the ordinance is being suggested to be done by Commission because some items are beyond our scope.

Lindman replies the challenge for us would be preparing the deliverable from the administrative standpoint and timelines.

Force asked to go back and ask for a less robust plan and take on what we can do ourselves.

Robinson states Green Bay was successful in the replacements of their lead by engaging other allies such as the health department to develop advanced communication. This takes special skills and communication. He asks if we can have more information understanding the breakdown on this to bring it to the special meeting next week.

Lindman states we can hire a communication firm specifically to do that if this is what the commission wants. We can talk about details in the proposals in the next meeting and I can gather that information.

Rosenberg states from this discussion we would need more information before making a recommendation.

No action taken.

### **4) Discussion and Review of a DRAFT Lead Service Line Replacement Ordinance.**

Lindman went over the draft of what the Ordinance would look like.

Miller stated he reviewed 6 different communities closest to what would be specific to Wausau.

Lindman states different communities had different structures, some paid for the

replacement, and some did not. The question for the Commission is how we want to put this together for funding and if we want to work through this as a whole or piece by piece. We can look at contracting out the reconstruction of the streets but most contractors are looking for a minimum of 400 replacements and up to consider the contracting.

Robinson states we can do this a piece at a time and not all at once.

Force questioned if we did this piece by piece if it would take months or drag on because we are on a timeline.

Lindman replied it could be one or two times but we can get this finalized and bring it back but the challenge is to start a communication plan. The communication plan is part of the LSL replacement plan so we need to get move forward with the Plan.

Miller stated most communities that got this done had an ordinance. We are not doing anything with the pipes inside the house, we are only touching one of the pipes and water supply is circulatory and maybe if it is a concern to see if they would consider changing them as well.

Rosenberg states this is an opportunity for education for the whole community.

Lindman appreciates the feedback.

No action taken.

**5) Discussion and Possible Action Issuing an RFP to begin a Corrosion Control Study as Directed by the WDNR.**

Lindman went over the letter from DNR stating Wausau needs to set up a Corrosion Control Treatment Study. Asking permission to move forward with setting up an RFP.

Boers states we need to bring recommendations to DNR within 18 months.

Robinson moved to approve issuing an RFP to begin a Corrosion Control Study. Seconded by Herbst.

Motion carried 5-0.

**6) Discussion and Possible Action on the Sale of the Wastewater UV Disinfection Equipment to RMMSD (Rib Mountain Metropolitan Sewerage District).**

Erickson stated the UV Disinfection Equipment was removed and was going to be salvaged but RMMSD offered \$10k for this equipment.

Force moved to accept the offer for the Wastewater's old UV Disinfection Equipment. Seconded by Herbst.

Motion carried 5-0.

**7) Discussion and Possible Action on the Purchase of Two Quad-Axle Dump Trucks for Wastewater Plant.**

Lindman states we are in the process of moving from Class B to Class A, but the roll off dumpsters are not the best options as they were cumbersome to remove and dump. An option would be the quad-axle dump trucks that would park there. The challenge we have is time because overnight we do not have anyone coming in to move those trucks. Other options are we can look at larger trailers but then we'd have to purchase trailers and a tractor to pull and then would possibly have to haul those out too. The operators feel that the quad axle trucks would be more beneficial. There were two used trucks available for purchase at about \$150k each right now. A brand new quad-axle truck would cost \$250k- \$275k each. If we purchase this, it may not be the end result or final result on how to handle the dry sludge but this will keep up with the transition and flow of the facility. We are not really budgeted for this as well.

Erickson stated we won't know the volume or pounds until we get the drier started up on what the volume would be. The staff feel the quad axle trucks would be more beneficial and

versatile. The trucks would be coming from North Carolina so there might be some transportation costs and plan to bring these back ourselves.

Robinson questioned if we could get estimates if it's better to purchase push trailers and if there was a timeline. It seemed that the push trailers would be cheaper.

Lindman stated they may not hold these trucks long, they offered to hold it longer but that obligated us to a certain amount so we didn't choose that option. We can ask the time frame. The drier is scheduled to go online in November.

Force questioned where our tractor was to which DPW now has. He questioned why we should purchase two trucks if we might not need them in the future.

Robinson moved to see if we can defer this for next week's meeting and to be provided more in depth detail for staff and to come up with a budget. Seconded by Herbst.

**8) Discussion on Confirming the Date for a Special Commission Meeting to Discuss Recruitment/Retention; Thursday, October 14th 12:30-1:30 PM.**

Lindman wanted confirmed the date/time for the Special Commission Meeting.

Motion carried 5-0.

**9) Adjourn.**

There being no further business to discuss, motion to adjourn by Robinson, seconded by Gehin.

The meeting is adjourned.

*Link to view meeting in its entirety: <https://tinyurl.com/wausaucitycouncil>*

Gina Vang, Recording Secretary

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## Minutes of October 14, 2021

A meeting of the Wausau Water Works Commission was called to order at 12:30 p.m. but due to technical issues was called to order again at 12:52 p.m. in City Hall on Thursday, October 14<sup>th</sup>, 2021. In compliance with Wisconsin Statutes, this meeting was posted and receipted for by the Wausau Daily Herald on October 13<sup>th</sup>, 2021.

Members Present: President Rosenberg, Commissioners Robinson, Herbst, Gehin, Force.  
Others Present: Eric Lindman, Scott Boers, Valerie Swanborg, Dave Erickson, Nate Miller, Toni Vanderboom. Via Webex: MaryAnne Groat, Debra Ryan, Tonia Westphal-Clark Dietz, Amrou Atassi- CDM Smith

### 1. **Discussion and Possible Action Awarding a Proposal for the Development of a Lead Service Line Replacement Program.**

Lindman asked if there were any questions regarding the proposal for the development of a lead line replacement program.

Force questioned if the individuals with the expertise would be on site and if there could be a collaboration between them and representatives from the Water Board so that needs would be met that are specific to this Utility.

Lindman replied that the individuals are based in Illinois and Milwaukee but we can have Webex meetings, we can collaborate and have them work with staffing so it could be tailored to Wausau's needs. At this point we need to have a plan on how to identify Lead Service Lines. We can have a communication to homeowners, through meter exchanges or with public outreach.

WEBEX TECHNICAL ISSUES- MEETING CALLED TO ORDER AT 12:52 p.m.

Robinson questioned if there would be a reduction in the contract if the Commission or the City was doing the ordinance and how they would engage others.

Atassi replied saying the effort is to identify ordinances you may want to consider and encourage participation in identifying Lead Lines and providing input but drafting would be referred to the city's attorney to write up the ordinances. There would be an outreach strategy that starts with the stakeholders to help identify the best strategies to reach residents. This may include flyers, town hall meetings or library events based on what the best communication plan is for your community. We could include the implementation plan to provide a roadmap to exceed the goals outlined with you.

Force questioned if the \$20k differential for inventory of the lead service lines is a repeat of what we've already done.

Boers replied it is not a repeat. We followed up on lead service line inventory mentioned from the last meeting and those numbers were just provided to Lindman.

Lindman states there are 13,763 residential properties, of that number the ones built 1970 or earlier are 10,723.

Boers added those are our starting numbers. We can overlay those with our records to know what was done on city's side but it was never required to have what was done on the private side. We could ask inspections or scan lateral permits to see what was done manually from their 2015 records forward but we would need to see what was done from those permits, whether it be a full replacement, just a partial patch or a meter brought out of a pit. Inspections records go back to 1967, we would only have a portion to follow up on. Per EPA's new rule, anything identified as possibly lead or unknown is considered lead.

Atassi adds that the inventory would entail which are confirmed lead and which are unknown per Fed/State requirements for the DNR. If it's zero unknown, the inventory would not be needed. We recommend developing a strategy of reducing the number of the unknown. We can look at building records, tax records, plumbing requirements, interviewing city staff and collecting all information, then developing a strategy for next steps to take that may include sending surveys to homeowners. You would need to improve inventory because it plays a huge role in the funding to be received. But the two go hand in hand, developing a plan and refining inventory.

Lindman states we can look at bringing that back with the inventory but each service would have to be looked at individually whether it be going home to home or through other sources.

Force moved to adopt this plan for Clark Dietz less inventory for the time being. Seconded by Herbst.

Motion carried 5-0.

## **2. Discussion and Possible Action on the Purchase of Trucks/Trailers for Hauling Class A Biosolids.**

Lindman started on the option available to purchase quad axle trucks to handle dry biosolids but the challenge is what would be long term. We do have equipment replacement funding that could be used but it's a \$300k item and with the unknown we would not recommend the commission move forward with the purchase but advised there are costs to us because we are contracting out the removal of the biosolids in the interim. We have costs estimated from Donohue.

Gehin questioned the \$50k, whether it was a monthly or annual cost.

Lindman replied this would be an annual cost but hopefully we would know by then the volume of the biosolids.

No action needed on this item.

## **3. Discussion and Possible Action Approving Recruitment and Retention Initiatives.**

Vanderboom summarized the discussion that was held at the October Human Resources Meeting with the conclusion of approving new hires to borrow up to one week vacation time without having to wait for time off to accrue and increasing the amount of personal holidays and vacation time that is earned. Another concern employees brought up was pay. What we can do now is temporarily remove steps 1 & 2 of the pay scale and start everyone at step 3 of the pay scale. Any current employee in step 1 or 2 would be moved to step 3 with the thought that with the next wage study salaries will be equalized with market trends. Looking at budget increase, there is a cost of living increase of 2% but the salary ranges would be moved up 2% as well. HR approved fully funding Option 3 of the last wage study. Next year HR would begin looking into a culture survey and identify items that need improvement. HR will also look into development training next year and into a CDL trainer position. Next year's budget considerations would be pay adjustments for employees because it takes too long for them to reach the midpoint pay ranges. HR had a discussion on maybe looking at 2 increases every 6 months until the midpoint range is reached, if employees were hired at the minimum salary.

Another item to be considered for next year are for those that are already above midpoint. This could include a percentage lump sum increase and ARPA funding could be utilized. All items recommended for immediate implementation were approved by the HR Committee and expected to go to the finance committee then council. Items for next year's budget would have supplemental requests to budget and would be considered one by one.

Robinson questioned what the projected cost would be.

Vanderboom replied the suspension of steps 1 & 2 would cost less than \$20k. The 6 month increases would cost quarter of a million dollars.

Gehin questioned if we had a timeframe for new employees to acquire their CDL.

Vanderboom replied Water has a timeframe but not Wastewater.

Erickson explained that they require new hires to have a CDL as they are needed on the streets on day one of hire.

Robinson moved to implement changes consistent with the City and its policies. Seconded by Force.

Motion carried 5-0.

#### **4. Adjourn.**

There being no further business to discuss, motion to adjourn by Gehin. Seconded by Herbst.

The meeting is adjourned.

*Link to view meeting in its entirety: <https://tinyurl.com/wausaucitycouncil>*

Gina Vang, Recording Secretary

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## **MEMORANDUM**

**TO:** President Rosenberg  
Commissioner Herbst  
Commissioner Force  
Commissioner Gehin  
Commissioner Robinson

**FROM:** Eric Lindman, P.E.  
Director of Public Works & Utilities

**SUBJECT:** Director's Report – October 2021

City staff interviewed 4 candidates for the Wastewater Superintendent position. An offer was made to one candidate and the candidate accepted. A background check and drug screening is currently being completed, if this comes back favorable a start date and more detailed information will be noticed.

The HR and Finance Committee approved the following items for recruitment/retention issues, these will be in effect for all city staff immediately:

1. Temporarily removed steps 1&2 from the step scale and hiring wage will begin at step 3
2. Approval of higher accrual of vacation time and ability to borrow 1-week from hire date
3. Approval of implementing "Option 3" of the wage study from 2019.

Items that may be approved by Council in the 2022 budget

1. Employees below mid-point will earn 2-steps per year until they reach midpoint. This will get employees to market rate in 4 years versus 8-years; if they start at minimum and sooner if they start higher.
2. 2% cost of living adjustment to the wage scale and an additional 2% for each employee
3. Lump sum payment to employees who are currently above midpoint. This is proposed to be implemented before year end using surplus funds from the 2021 budget

RENEW, out of Madison, WI, will be the group who will be presenting at the next solar PIM. RENEW Wisconsin is a nonprofit organization that promotes renewable energy in Wisconsin. RENEW works on policies and programs that expand solar power, wind power, biogas, local hydropower, geothermal energy, and electric vehicles. They have been in place since 1991 educating and advocating for renewable energy in Wisconsin.

We will be setting this next meeting for Nov 17, 2021 and notices will be sent to the neighborhood as well as notices to the public.

## **WATER DIVISION**

1. Drinking Water Treatment Facility Update: See attached.
2. Locates received as of 10/26/2021: 8,082. Already 2,072 more than 2020.
3. Current LSL replacement numbers as of 10/26/2021: 76 private side LSL replacements have been completed for a total of \$311,338.58. Reimbursement for \$45,919.00 of this total has been requested using the balance remaining from the 2018 SDWLP funds. This leaves an expenditure of \$265,419.58 using the 2021 SDWLP funds. Balance of 2021 funding remaining to use is \$54,580.42.  
We have 26 properties that showed interest but are unable to obtain an estimate and/or have the work completed yet this year due to the plumber's schedules. There is also scheduling conflicts with concrete installation contractors to replace sidewalk squares prior to the change in weather. We have started a list to notify these property owners if more grant funding becomes available in 2022.
4. Supplement to the Lead and Copper letter received from WDNR. See Attached.

## **WASTEWATER DIVISION**

1. The wastewater treatment plant is on track to meet permit limits for October. We did have an exceedance of our WLA (Waste Load Allocation) for BOD (Biological Oxygen Demand) on September 1st which I did not report to the Commission last month. The WLA is calculated based on the river flow and the results of the 5 day BOD test. I failed to catch that we had exceeded our allowed limit until the monthly report was prepared for the WDNR. We did not exceed the BOD limits which are based on a monthly and a weekly average.
2. We are again reposting the position for a Sewer Maintainer. We had a full roster of 5 on the sewer collection crew for a couple of months until we had a resignation. Other than that time, we have been posting for this position for over a year. We have made an offer for the Plant Maintenance Technician position but the applicant has been slow to respond. We may need to repost that position, which has also been open for over a year.
3. A contractor was retained to recut a lateral for a residence on Glendale Avenue. A resin plug remaining from when the Cured in Place Pipe lining project was completed years ago was partially blocking the lateral and causing backups in the home. We are also scheduling a contractor to recut a lateral, and preparing to use our trenchless short lining system to patch the void, on Myron Street where a HDPE slip-lined pipe shifted obstructing that resident's lateral.

4. The installation of three access structures on the Industrial Park Lift Station force main has been completed. The access structures will facilitate pigging, cleaning, and televising the force main pipe. The cleaning project has been rescheduled for next spring to avoid potentially working in winter weather.
5. The Wastewater plant expansion project has been moving along rapidly. Sequencing the work to keep the existing plant operating until new systems, and subsystems, are running has been a challenge but the contractors, engineers, and plant staff have been working through it. Staff have also been attending training sessions provided by equipment vendors as new equipment is being installed.
6. The Board of Public Works authorized the purchase of a fork lift from Fork Lift Management Specialists. Quotes were opened at the October 12<sup>th</sup> meeting and the model selected at the October 27<sup>th</sup> meeting.

#### **UTILITY FINANCIAL REPORTS – SEPTEMBER 2021**

# Wausau Drinking Water Treatment Facility - Project Status

October 26, 2021

## Drinking Water Treatment Facility

As shown in the attached photos, treatment process piping, pump and equipment installation, HVAC, electrical, and painting continue throughout the facility. The permanent utility transformer has been installed and the building is running on permanent power.

Nearly all the underground piping on the site is complete and the contractor has begun performance testing.

The contractor is installing concrete sidewalks, curbing, and bollards. Base course installation around the buildings is nearly complete.

## Administration Building and Garage

Windows and doors continue to be installed and the roof is nearly complete. As shown in the attached photo, drywall installation throughout the administrative area is nearly complete. All interior concrete floors have been poured and interior stud walls are nearly complete. Interior electrical and HVAC work are ongoing.

## Wells

The contractor is wrapping up exterior work at the well sites. Generator pads have been poured nearly all of the wells.

The project team (owner / engineers / contractor) continue to meet weekly to plan for equipment demonstration and start up, which is scheduled to begin in February.

WPS installed gas lines and regulators to the site



WPS installed regulator and power supply to site



Concrete walks along vehicle storage / administration building



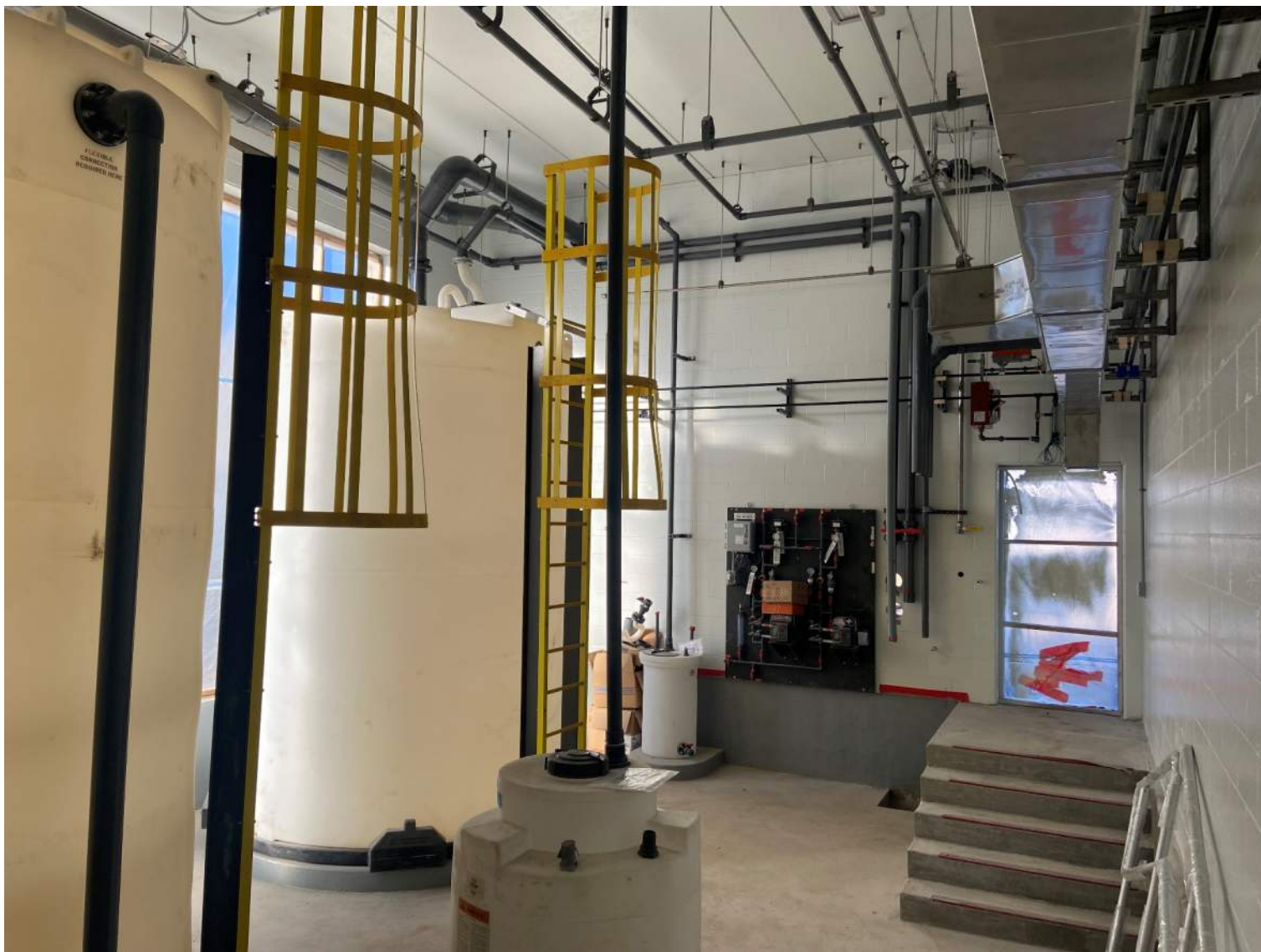
Retaining wall adjacent to vehicle storage / administration building



Drywall in conference room at vehicle storage / administration building



Chemical feed and safety equipment installation



## Filter Room

Painting, LED lighting, and railing installation are being completed throughout the plant



## Wausau Corrosion Control Study Timeline

| <b>TASK ID</b>                                                                                                                    | <b>TASK</b>                              | <b>Action Required</b>                                                                                                                                                                                       | <b>DATE TO BE COMPLETED</b> |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 1.a                                                                                                                               | CCT Study Proposal                       | Wausau submittal to the Dept. describing plans for CCT study                                                                                                                                                 | December 31, 2021           |
| 1.b                                                                                                                               | CCT Study Proposal Meeting               | Wausau meeting with the Department to discuss CCT study proposal                                                                                                                                             | January 31, 2022            |
| 2.                                                                                                                                | Corrosion Control Study Progress Meeting | Department and System arrange meeting to discuss results of studies. Department provides recommendations and additional questions or concerns depending on results of study                                  | July – September 2022       |
| 3.                                                                                                                                | Corrosion Control Study Completed        | System submits findings of Corrosion Control Study along with Corrosion Control Plan to the Department for review for System implementation with the intent to achieve Optimized Corrosion Control Treatment | March 22, 2023              |
| *Please note these timeframes are the maximum allowable timeframes; systems may complete these at an accelerated pace if desired. |                                          |                                                                                                                                                                                                              |                             |



**WATER UTILITY - CITY OF WAUSAU**  
**BALANCE SHEET STATEMENT**  
September, 30 2021

|                                       | Current Year<br>CY YTD | Prior Year<br>PY YTD |
|---------------------------------------|------------------------|----------------------|
| <b>ASSETS</b>                         |                        |                      |
| Current Assets:                       |                        |                      |
| Cash and cash equivalents             | \$ 1,632,433           | \$ 1,309,771         |
| Accounts receivable                   | 2,422,675              | 1,902,831            |
| Inventories and prepayments           | 318,719                | 366,935              |
| Total Current Assets                  | <u>4,373,826</u>       | <u>3,579,537</u>     |
| Noncurrent Assets:                    |                        |                      |
| Restricted cash and cash equivalents: |                        |                      |
| Debt service/redemption funds         | 1,301,158              | 839,004              |
| Net Restricted cash and receivables   | <u>1,301,158</u>       | <u>839,004</u>       |
| Property, plant and equipment:        |                        |                      |
| Property and equipment                | 96,517,840             | 68,452,243           |
| Accumulated depreciation              | <u>(24,075,520)</u>    | <u>(22,851,307)</u>  |
| Net Property, Plant and Equipment     | 72,442,320             | 45,600,936           |
| Net pension asset                     | 218,667                | -                    |
| Total Noncurrent Assets               | <u>73,962,145</u>      | <u>46,439,940</u>    |
| TOTAL ASSETS                          | <u>78,335,971</u>      | <u>50,019,477</u>    |
| <b>DEFERRED OUTFLOWS OF RESOURCES</b> |                        |                      |
| Deferred outflow-net pension asset    | 517,823                | 648,686              |
| TOTAL DEFERRED OUTFLOWS               | <u>517,823</u>         | <u>648,686</u>       |
| <b>LIABILITIES</b>                    |                        |                      |
| Current Liabilities:                  |                        |                      |
| Accounts payable                      | (115)                  | 125,427              |
| Contracts payable                     | 2,617,710              | 18,706               |
| Salaries/wages payable                | 19,177                 | 16,135               |
| Compensated absences payable          | 62,094                 | 55,959               |
| Due to Sewer Fund                     | 140,000                | 140,000              |
| Revenue Bond debt - current portion   | 485,000                | -                    |
| Accrued interest payable              | 272,711                | 337,628              |
| Total Current Liabilities             | <u>3,596,577</u>       | <u>693,854</u>       |
| Noncurrent Liabilities:               |                        |                      |
| Due to Sewer Fund                     | 420,000                | 700,000              |
| Revenue Bond debt                     | 5,750,541              | 6,744,215            |
| Loan debt                             | 28,309,544             | 3,792,901            |
| Compensated absences                  | 73,019                 | 79,004               |
| Net pension liability                 | -                      | 238,853              |
| Total Noncurrent Liabilities          | <u>34,553,103</u>      | <u>11,554,974</u>    |
| TOTAL LIABILITIES                     | <u>38,149,680</u>      | <u>12,248,827</u>    |
| <b>DEFERRED INFLOWS OF RESOURCES</b>  |                        |                      |
| Deferred inflow-net pension liability | 693,701                | 358,909              |
| TOTAL DEFERRED INFLOWS                | <u>693,701</u>         | <u>358,909</u>       |
| TOTAL NET POSITION                    | <u>\$ 40,010,413</u>   | <u>\$ 38,060,427</u> |

**NOTES**

**DEBT TO EQUITY RATIO**

31.4%

29.9%

**WATER UTILITY - CITY OF WAUSAU**  
**STATEMENT OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION**  
September, 30 2021

|                                                             | Water Utility<br>2021 Budget | Current Year<br>Sept 2021 YTD | Var to Budget<br>Bdg-Act Var | % Bdg Var | Prior Year<br>Sept 2020 YTD |
|-------------------------------------------------------------|------------------------------|-------------------------------|------------------------------|-----------|-----------------------------|
| <b>OPERATING REVENUES</b>                                   |                              |                               |                              |           |                             |
| Charges for services and sales                              | \$ 6,802,600                 | \$ 5,600,758                  | \$ (1,201,842)               | 82.3%     | \$ 4,340,053                |
| Other operating revenues                                    | 44,000                       | 6,780                         | (37,220)                     | 15.4%     | 9,387                       |
| Total Operating Revenues                                    | 6,846,600                    | 5,607,538                     | (1,239,062)                  | 81.9%     | 4,349,440                   |
| <b>OPERATING EXPENSES</b>                                   |                              |                               |                              |           |                             |
| Operating and maintenance                                   |                              |                               |                              |           |                             |
| Personal Service                                            | 1,182,238                    | 892,434                       | 289,804                      | 75.5%     | 818,724                     |
| Personal Benefits                                           | 512,467                      | 346,991                       | 165,476                      | 67.7%     | 312,287                     |
| Contractual Services                                        | 978,760                      | 577,034                       | 401,726                      | 59.0%     | 531,558                     |
| Supplies & Expense                                          | 757,500                      | 440,785                       | 316,715                      | 58.2%     | 334,615                     |
| Building Materials                                          | 401,910                      | 296,542                       | 105,368                      | 73.8%     | 247,491                     |
| Fixed Charges                                               | 26,100                       | 17,568                        | 8,532                        | 67.3%     | 12,707                      |
| Grants, Contributions, & Other                              | 2,000                        | -                             | 2,000                        | 0.0%      | 808                         |
| Total Operating and Maintenance                             | 3,860,976                    | 2,571,354                     | 1,289,621                    | 66.6%     | 2,258,191                   |
| Depreciation                                                | 1,063,000                    | 1,068,098                     | (5,098)                      | 100.5%    | 1,060,797                   |
| Meter Allocation (Contra Account)                           | (36,340)                     | (375,000)                     | 338,660                      | 1031.9%   | (375,000)                   |
| Total Operating Expenses                                    | 4,887,636                    | 3,264,452                     | 1,623,184                    | 66.8%     | 2,943,988                   |
| Operating Income (Loss)                                     | 1,958,964                    | 2,343,086                     | 384,121                      | 119.6%    | 1,405,452                   |
| <b>NONOPERATING REVENUES (EXPENSES)</b>                     |                              |                               |                              |           |                             |
| Investment income                                           | 5,000                        | -                             | (5,000)                      | 0.0%      | -                           |
| Interest expense                                            | (140,500)                    | (412,059)                     | (271,559)                    | 293.3%    | (408,970)                   |
| Amortization of premium/discount                            | (4,200)                      | 26,895                        | 31,095                       | -640.4%   | 500,000                     |
| Gain on asset disposal                                      | -                            | 1,998                         | 1,998                        | 0.0%      | 1,901                       |
| Total Nonoperating Revenues (Expenses)                      | (139,700)                    | (383,166)                     | (243,466)                    | 274.3%    | 92,931                      |
| Income (loss) before Capital<br>Contributions and Transfers | 1,819,264                    | 1,959,919                     | 140,655                      | 107.7%    | 1,498,383                   |
| Capital Contributions                                       | 10,000                       | 19,881                        | 9,881                        | 198.8%    | 19,880                      |
| Transfers Out                                               | (1,162,000)                  | (852,995)                     | 309,005                      | 73.4%     | (852,995)                   |
| CHANGE IN NET POSITION                                      | 667,264                      | 1,126,805                     | 459,541                      | 168.9%    | 665,268                     |
| NET POSITION, BEG OF THE YEAR                               | 38,883,607                   | 38,883,607                    | -                            |           | 37,395,158                  |
| NET POSITION, TO DATE                                       | <u>\$ 39,550,872</u>         | <u>\$ 40,010,413</u>          | <u>\$ 459,541</u>            |           | <u>\$ 38,060,427</u>        |

**WATER UTILITY - CITY OF WAUSAU**

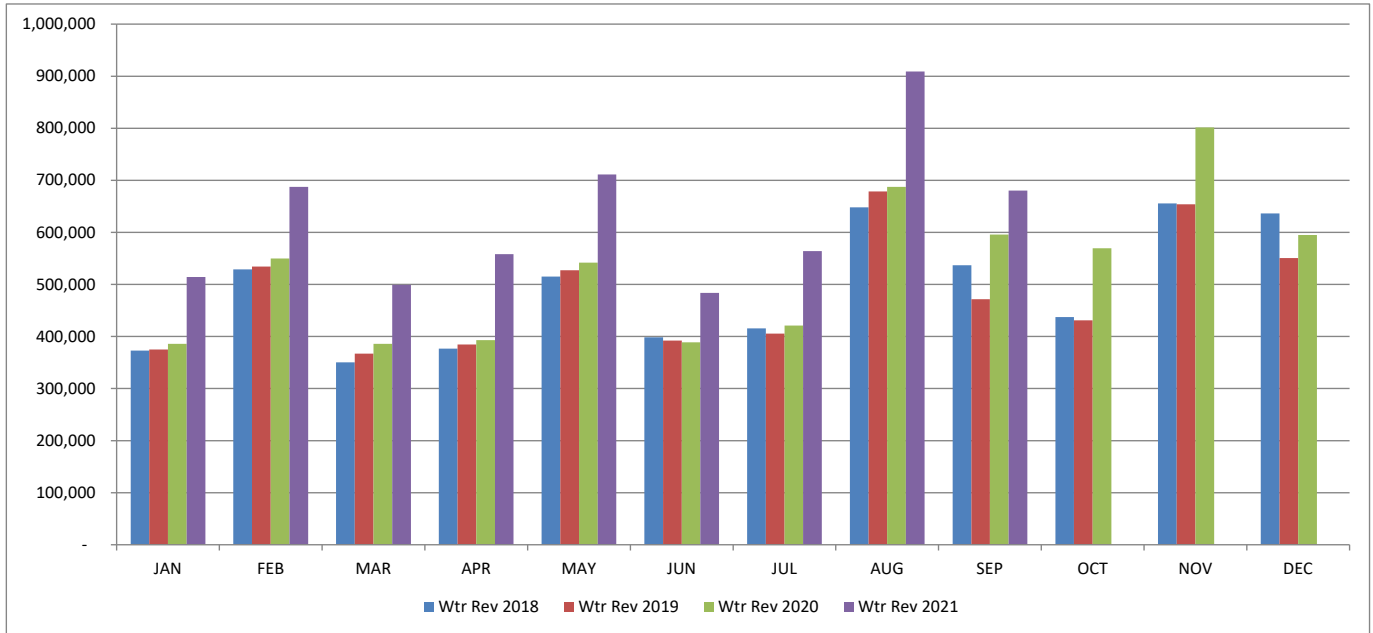
**Statement of Cash Flow**

September, 30 2021

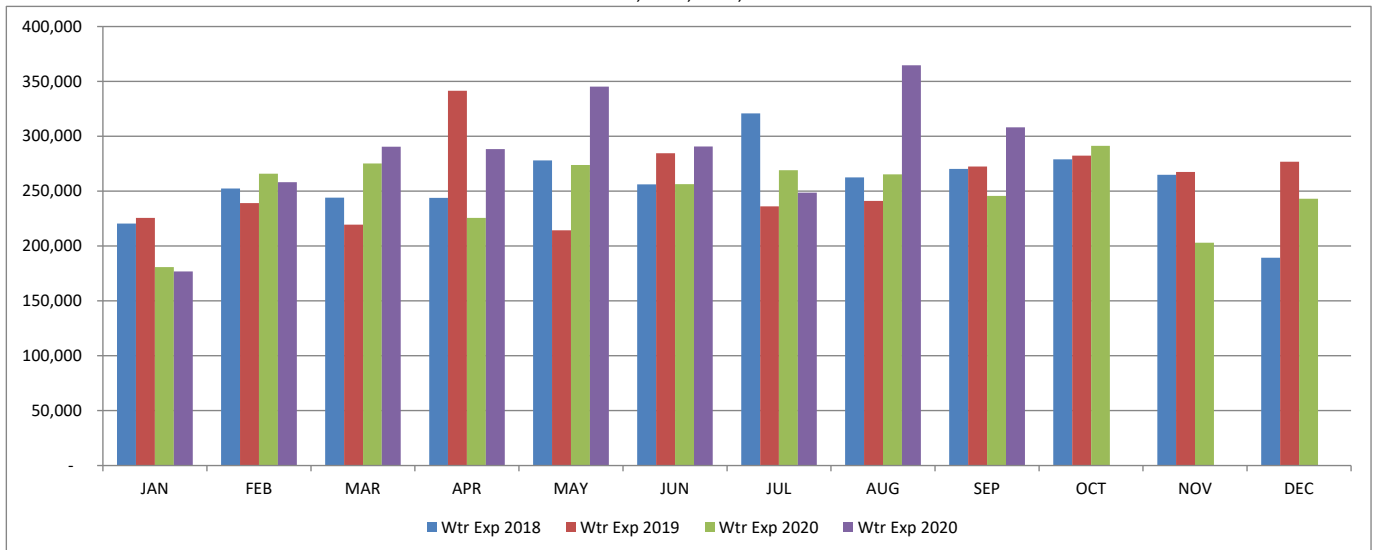
|                                                                                                       | 2021                       | 2020                       |
|-------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|
| <b>CASH FLOWS FROM OPERATING ACTIVITIES</b>                                                           |                            |                            |
| Receipts from customers, users and others                                                             | \$ 5,065,432               | \$ 3,982,669               |
| Payments to suppliers                                                                                 | (1,627,207)                | (1,884,803)                |
| Payments to employees                                                                                 | (881,479)                  | (852,754)                  |
|                                                                                                       | <u>2,556,746</u>           | <u>1,245,112</u>           |
| Net Cash Provided (Used) by Operating Activities                                                      |                            |                            |
| <b>CASH FLOWS FROM NONCAPITAL FINANCING ACTIVITIES</b>                                                |                            |                            |
| Due to/from Sewer Fund                                                                                | (140,000)                  | -                          |
| Debt Redemption Fund                                                                                  | (367,267)                  | 24,357                     |
| Bond Sinking Fund                                                                                     | (0)                        | -                          |
| Transfers Out                                                                                         | (852,995)                  | (852,995)                  |
| Net Cash Provided (Used) by Noncapital Financing Activities                                           | <u>(1,360,262)</u>         | <u>(828,638)</u>           |
| <b>CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES</b>                                       |                            |                            |
| Capital Contributions                                                                                 | 19,881                     | 19,880                     |
| Acquisition and construction of capital assets                                                        | (19,929,992)               | (3,247,029)                |
| Proceeds from Capital Debt                                                                            | -                          | -                          |
| Principal on Capital Debt                                                                             | 18,728,983                 | 2,318,624                  |
| Interest paid on capital debt                                                                         | (202,188)                  | 365,900                    |
| Proceeds from sale of capital assets                                                                  | 1,998                      | 1,901                      |
| Net Cash Used by Capital and Related Financing Activities                                             | <u>(1,381,319)</u>         | <u>(540,724)</u>           |
| <b>CASH FLOWS FROM INVESTING ACTIVITIES</b>                                                           |                            |                            |
| Investment income received                                                                            | -                          | -                          |
|                                                                                                       | <u>(184,835)</u>           | <u>(124,249)</u>           |
| Net Increase (Decrease) in Cash and Equivalents                                                       |                            |                            |
| Cash and cash equivalents - beginning of year                                                         | <u>1,817,267</u>           | <u>1,434,020</u>           |
| Cash and cash equivalents - end of period                                                             | <u><u>1,632,433</u></u>    | <u><u>\$ 1,309,771</u></u> |
| <b>Reconciliation of operating income (loss) to net cash provided (used) by operating activities:</b> |                            |                            |
| Operating income (loss)                                                                               | \$ 2,343,086               | \$ 1,405,452               |
| Adjustments to reconcile operating income (loss) to net cash provided (used) by operating activities: |                            |                            |
| Depreciation expense                                                                                  | 1,068,098                  | 1,060,797                  |
| Changes in assets and liabilities:                                                                    |                            |                            |
| Accounts receivable                                                                                   | (542,106)                  | (366,771)                  |
| Inventories and prepayments                                                                           | (52,125)                   | (74,784)                   |
| Accounts payable                                                                                      | (271,162)                  | (745,552)                  |
| Salaries/wages payable                                                                                | 2,078                      | (40,935)                   |
| Accrued compensated absences                                                                          | 8,878                      | 6,906                      |
| Net pension expense                                                                                   | -                          | -                          |
|                                                                                                       | <u>-</u>                   | <u>-</u>                   |
| Net cash provided (used) by operating activities                                                      | <u><u>\$ 2,556,746</u></u> | <u><u>\$ 1,245,112</u></u> |

**WAUSAU WATER UTILITY REVENUE & EXPENSE ANALYSIS**  
4 YEAR COMPARISON AS OF SEPTEMBER 30, 2021

WATER UTILITY REVENUE 2018, 2019, 2020, 2021



WATER UTILITY O&M EXPENSE 2018, 2019, 2020, 2020



| WATER REVENUE        | JAN     | FEB     | MAR     | APR     | MAY     | JUN     | JUL                | AUG                | SEP                   | OCT      | NOV     | DEC     | TOTALS    |
|----------------------|---------|---------|---------|---------|---------|---------|--------------------|--------------------|-----------------------|----------|---------|---------|-----------|
| Wtr Rev 2018         | 373,006 | 528,830 | 350,419 | 376,733 | 515,013 | 398,562 | 415,415            | 648,201            | 536,710               | 437,367  | 655,459 | 636,379 | 5,872,093 |
| Wtr Rev 2019         | 374,991 | 534,366 | 366,893 | 384,442 | 527,047 | 392,107 | 405,744            | 678,575            | 471,771               | 431,064  | 654,108 | 550,559 | 5,771,666 |
| Wtr Rev 2020         | 385,935 | 549,673 | 385,789 | 393,017 | 542,047 | 388,720 | 421,028            | 687,279            | 595,954               | 569,614  | 801,538 | 595,054 | 6,315,647 |
| Wtr Rev 2021         | 514,201 | 687,468 | 499,401 | 557,981 | 711,053 | 483,864 | 564,094            | 909,083            | 680,393               |          |         |         | 5,607,538 |
| Change over Prior Yr | 33.2%   | 25.1%   | 29.4%   | 42.0%   | 31.2%   | 24.5%   | 34.0%              | 32.3%              | 14.2%                 |          |         |         | 28.9%     |
| 2021 Jan Rate Incr   |         |         |         |         |         |         | 2020 Jul Rate Incr | 2019 Aug Rate Incr | 2019 - \$38k Mfam&irr | Tax Roll |         |         |           |

| WATER OP&MAINT EXP   | JAN     | FEB     | MAR     | APR     | MAY     | JUN     | JUL                         | AUG     | SEP     | OCT     | NOV     | DEC     | TOTALS    |
|----------------------|---------|---------|---------|---------|---------|---------|-----------------------------|---------|---------|---------|---------|---------|-----------|
| Wtr Exp 2018         | 220,397 | 252,366 | 244,175 | 243,978 | 278,071 | 256,150 | 320,847                     | 262,632 | 270,192 | 279,018 | 264,964 | 189,331 | 2,497,400 |
| Wtr Exp 2019         | 225,698 | 239,131 | 219,540 | 341,466 | 214,321 | 284,521 | 236,079                     | 241,050 | 272,508 | 282,351 | 267,475 | 276,782 | 3,100,922 |
| Wtr Exp 2020         | 180,879 | 266,005 | 275,178 | 225,683 | 273,876 | 256,450 | 269,170                     | 265,225 | 245,725 | 291,297 | 203,107 | 243,005 | 2,995,600 |
| Wtr Exp 2020         | 176,909 | 258,184 | 290,433 | 288,226 | 345,345 | 290,678 | 248,733                     | 364,625 | 308,222 |         |         |         | 2,571,354 |
| Change over Prior Yr | -2.2%   | -2.9%   | 5.5%    | 27.7%   | 26.1%   | 13.3%   | -7.6%                       | 37.5%   | 25.4%   |         |         |         | 13.9%     |
|                      |         |         |         |         |         |         | 2020 Rate Stdy, Sensus prgm |         |         |         |         |         |           |

**SEWER UTILITY - CITY OF WAUSAU**  
**BALANCE SHEET STATEMENT**  
September, 30 2021

|                                           | Current Year<br>Sep CY YTD | Prior Year<br>Sep PY YTD |
|-------------------------------------------|----------------------------|--------------------------|
| <b>ASSETS</b>                             |                            |                          |
| Current Assets:                           |                            |                          |
| Cash and cash equivalents                 | \$ 336,083                 | \$ 1,436,475             |
| Accounts receivable                       | 2,839,080                  | 1,886,550                |
| Due from Water Fund                       | 140,000                    | 140,000                  |
| Inventories and prepayments               | 6,906                      | -                        |
| Total Current Assets                      | <u>3,322,068</u>           | <u>3,463,025</u>         |
| Noncurrent Assets:                        |                            |                          |
| Restricted cash and receivables:          |                            |                          |
| Equipment replacement fund                | 2,159,604                  | 1,999,722                |
| Debt service/redemption funds             | 2,043,930                  | 1,423,869                |
| Advance to water fund                     | 420,000                    | 700,000                  |
| Net Restricted cash and receivables       | <u>4,623,533</u>           | <u>4,123,591</u>         |
| Property, Plant and Equipment:            |                            |                          |
| Property and equipment                    | 137,953,377                | 83,820,704               |
| Accumulated depreciation                  | (30,312,553)               | (29,056,354)             |
| Net Property, Plant and Equipment         | <u>107,640,824</u>         | <u>54,764,349</u>        |
| Net pension asset                         | 164,463                    | -                        |
| Total Noncurrent Assets                   | <u>112,428,821</u>         | <u>58,887,941</u>        |
| TOTAL ASSETS                              | <u>115,750,889</u>         | <u>62,350,966</u>        |
| <b>DEFERRED OUTFLOWS OF RESOURCES</b>     |                            |                          |
| Deferred Outflow on net pension asset     | 384,246                    | 486,030                  |
| TOTAL DEFERRED OUTFLOWS                   | <u>384,246</u>             | <u>486,030</u>           |
| <b>LIABILITIES</b>                        |                            |                          |
| Current Liabilities:                      |                            |                          |
| Accounts payable                          | -                          | 44,200                   |
| Contracts payable                         | 3,562,476                  | -                        |
| Salaries and wages payable                | 14,835                     | 10,321                   |
| Compensated absences payable              | 53,246                     | 45,789                   |
| Due to other funds                        | -                          | 15,000                   |
| Revenue obligation debt - current portion | 830,000                    | -                        |
| Accrued interest payable                  | (14,491)                   | 35,848                   |
| Total Current Liabilities                 | <u>4,446,065</u>           | <u>151,158</u>           |
| Noncurrent Liabilities:                   |                            |                          |
| Revenue Bond debt                         | 9,856,018                  | 11,546,091               |
| Loan debt                                 | 54,026,717                 | 5,655,347                |
| Compensated absences                      | 51,113                     | 88,505                   |
| Net pension liability                     | 22,443                     | 195,239                  |
| Total Noncurrent Liabilities              | <u>63,956,291</u>          | <u>17,485,181</u>        |
| TOTAL LIABILITIES                         | <u>68,402,356</u>          | <u>17,636,339</u>        |
| <b>DEFERRED INFLOWS OF RESOURCES</b>      |                            |                          |
| Deferred Outflow on net pension asset     | 496,952                    | 251,794                  |
| TOTAL DEFERRED INFLOWS                    | <u>496,952</u>             | <u>251,794</u>           |
| TOTAL NET POSITION                        | <u>\$ 47,235,827</u>       | <u>\$ 44,948,862</u>     |

**NOTES**

DEBT TO EQUITY RATIO

132.7%

35.1%

**SEWER UTILITY - CITY OF WAUSAU**  
**STATEMENT OF REVENUES, EXPENSES, AND CHANGES IN NET POSITION**  
September, 30 2021

|                                                             | Sewer Utility<br>2021 Budget | Current Year<br>Sep 2021 YTD | Var to Budget<br>Bdg-Act Var | % Bdg Var | Prior Year<br>Sep 2020 YTD |
|-------------------------------------------------------------|------------------------------|------------------------------|------------------------------|-----------|----------------------------|
| <b>OPERATING REVENUES</b>                                   |                              |                              |                              |           |                            |
| Charges for services and sales                              | \$ 6,251,960                 | \$ 5,436,578                 | \$ (815,382)                 | 87.0%     | \$ 4,417,263               |
| Other operating revenues                                    | 4,000                        | 3,533                        | (467)                        | 88.3%     | 391                        |
| Total Operating Revenues                                    | 6,255,960                    | 5,440,111                    | (815,849)                    | 87.0%     | 4,417,654                  |
| <b>OPERATING EXPENSES</b>                                   |                              |                              |                              |           |                            |
| Operating and maintenance                                   |                              |                              |                              |           |                            |
| Personal Service                                            | 901,599                      | 632,119                      | 269,480                      | 70.1%     | 567,632                    |
| Personal Benefits                                           | 438,617                      | 284,123                      | 154,494                      | 64.8%     | 282,545                    |
| Contractual Services                                        | 1,432,600                    | 999,566                      | 433,034                      | 69.8%     | 818,736                    |
| Supplies & Expense                                          | 547,200                      | 304,237                      | 242,963                      | 55.6%     | 295,667                    |
| Building Materials                                          | 220,000                      | 147,385                      | 72,615                       | 67.0%     | 114,725                    |
| Fixed Charges                                               | 40,000                       | 30,711                       | 9,289                        | 76.8%     | 16,207                     |
| Grants, Contributions, & Other                              | 1,400                        | -                            | 1,400                        | 0.0%      | 886                        |
| Total Operating and Maintenance                             | 3,581,416                    | 2,398,140                    | 1,183,276                    | 67.0%     | 2,096,399                  |
| Depreciation                                                | 1,285,000                    | 938,186                      | 346,814                      | 73.0%     | 937,491                    |
| Total Operating Expenses                                    | 4,866,416                    | 3,336,326                    | 1,530,091                    | 68.6%     | 3,033,890                  |
| Operating Income (Loss)                                     | 1,389,544                    | 2,103,785                    | 714,241                      | 151.4%    | 1,383,765                  |
| <b>NONOPERATING REVENUES (EXPENSES)</b>                     |                              |                              |                              |           |                            |
| Investment income                                           | 43,000                       | 721                          | (42,279)                     | 1.7%      | 13,469                     |
| Interest expense                                            | (212,000)                    | (225,000)                    | (13,000)                     | 106.1%    | (236,787)                  |
| Amortization premium/discount                               | 32,000                       | 46,923                       | 14,923                       | 146.6%    | 1,750,000                  |
| Total Nonoperating Revenues (Expenses)                      | (137,000)                    | (177,356)                    | (40,356)                     | 129.5%    | 1,526,683                  |
| Income (loss) before Capital<br>Contributions and Transfers | 1,252,544                    | 1,926,429                    | 673,885                      | 153.8%    | 2,910,447                  |
| Capital Contributions                                       | 40,000                       | 49,584                       | 9,584                        | 124.0%    | 14,784                     |
| Transfers Out                                               | (493,000)                    | (378,500)                    | 114,500                      | 76.8%     | (378,500)                  |
| CHANGE IN NET POSITION                                      | 799,544                      | 1,597,513                    | 797,970                      | 199.8%    | 2,546,731                  |
| NET POSITION, BEG OF YEAR                                   | 45,638,314                   | 45,638,314                   | -                            |           | 42,402,131                 |
| NET POSITION, TO DATE                                       | <u>\$ 46,437,857</u>         | <u>\$ 47,235,827</u>         | <u>\$ 797,970</u>            |           | <u>\$ 44,948,862</u>       |

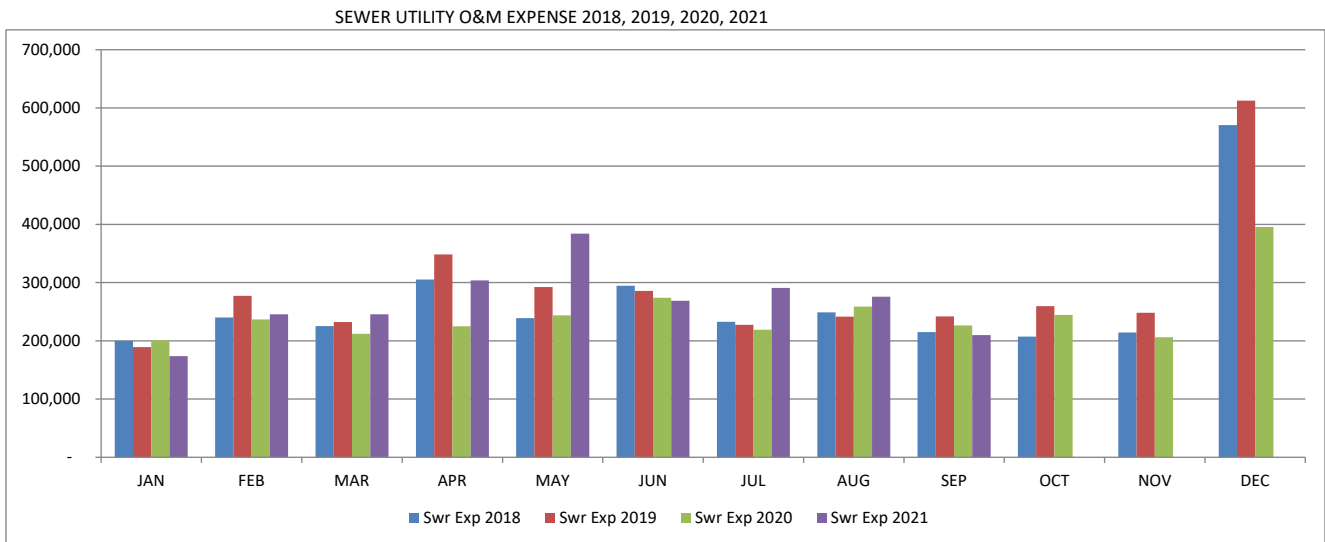
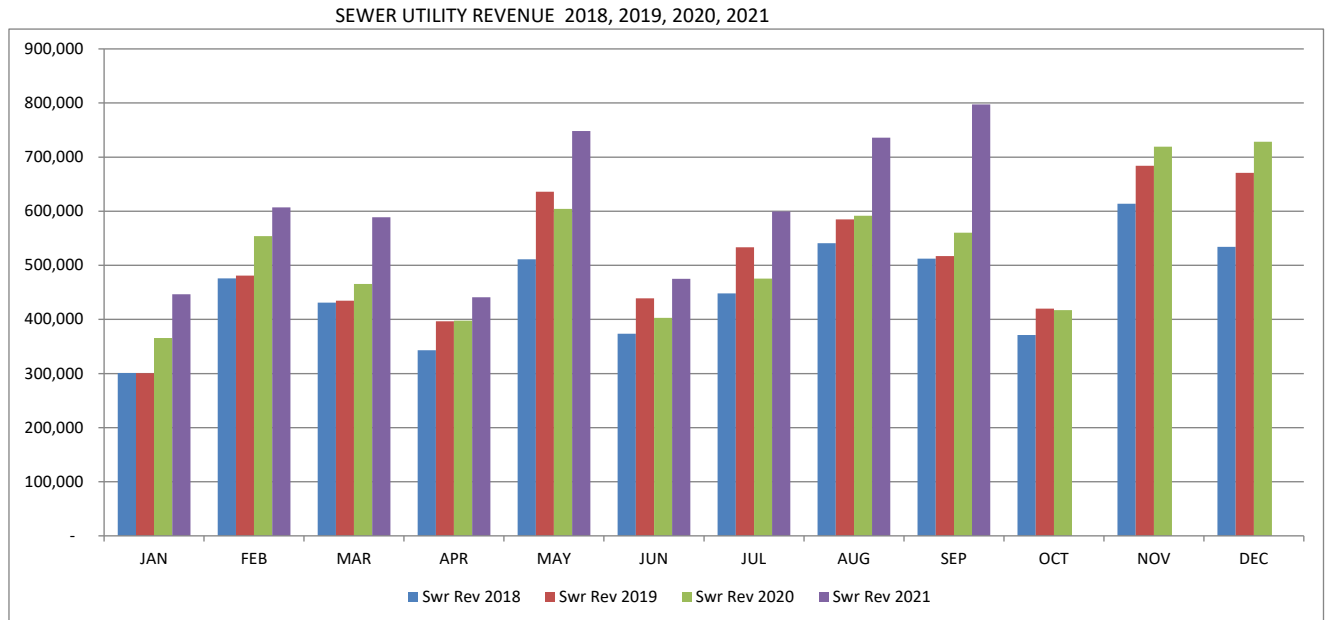
**SEWER UTILITY - CITY OF WAUSAU**

**Statement of Cash Flow**

September, 30 2021

|                                                                                                       | 2021         | 2020         |
|-------------------------------------------------------------------------------------------------------|--------------|--------------|
| <b>CASH FLOWS FROM OPERATING ACTIVITIES</b>                                                           |              |              |
| Receipts from customers, users and others                                                             | \$ 4,928,058 | \$ 4,116,173 |
| Payments to suppliers                                                                                 | (2,596,207)  | (2,779,316)  |
| Payments to employees                                                                                 | (620,124)    | (600,988)    |
|                                                                                                       | <hr/>        | <hr/>        |
| Net Cash Provided (Used) by Operating Activities                                                      | 1,711,727    | 735,869      |
|                                                                                                       | <hr/>        | <hr/>        |
| <b>CASH FLOWS FROM NONCAPITAL FINANCING ACTIVITIES</b>                                                |              |              |
| Due to/from Water Fund                                                                                | 140,000      | -            |
| Debt Redemption Fund                                                                                  | (469,704)    | 825,361      |
| Bond Sinking Fund                                                                                     | -            | 1,480,339    |
| Transfer Out                                                                                          | (378,500)    | (363,500)    |
|                                                                                                       | <hr/>        | <hr/>        |
| Net Cash Provided (Used) by Noncapital Financing Activities                                           | (708,204)    | 1,942,200    |
|                                                                                                       | <hr/>        | <hr/>        |
| <b>CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES</b>                                       |              |              |
| Capital Contributions                                                                                 | 49,584       | 14,784       |
| Acquisition and construction of capital assets                                                        | (36,658,401) | (6,972,181)  |
| Proceeds from Capital Debt                                                                            | 58,736,841   | 5,357,427    |
| Principal on Capital Debt                                                                             | (23,618,327) | (5,146,807)  |
| Interest paid on capital debt                                                                         | (305,863)    | 1,459,973    |
|                                                                                                       | <hr/>        | <hr/>        |
| Net Cash Used by Capital and Related Financing Activities                                             | (1,796,166)  | (5,286,803)  |
|                                                                                                       | <hr/>        | <hr/>        |
| <b>CASH FLOWS FROM INVESTING ACTIVITIES</b>                                                           |              |              |
| Investment income received                                                                            | 721          | 13,469       |
|                                                                                                       | <hr/>        | <hr/>        |
| Net Increase (Decrease) in Cash and Equivalents                                                       | (791,923)    | (2,595,265)  |
|                                                                                                       | <hr/>        | <hr/>        |
| Cash and cash equivalents - beginning of year                                                         | 3,287,609    | 6,031,462    |
|                                                                                                       | <hr/>        | <hr/>        |
| Cash and cash equivalents - end of period                                                             | \$ 2,495,686 | \$ 3,436,197 |
|                                                                                                       | <hr/>        | <hr/>        |
| <b>Reconciliation of operating income (loss) to net cash provided (used) by oprating activities:</b>  |              |              |
| Operating income (loss)                                                                               | \$ 2,103,785 | \$ 1,383,765 |
| Adjustments to reconcile operating income (loss) to net cash provided (used) by operating activities: |              |              |
| Depreciation expense                                                                                  | 938,186      | 937,491      |
| Changes in assets and liabilities:                                                                    |              |              |
| Accounts recievable                                                                                   | (505,147)    | (301,481)    |
| Accounts payable                                                                                      | (830,186)    | (1,250,549)  |
| Salaries/wages payable                                                                                | 2,560        | (32,447)     |
| Accrued compensated absences                                                                          | 9,435        | (909)        |
|                                                                                                       | <hr/>        | <hr/>        |
| Net cash provided (used) by operating activities                                                      | \$ 1,711,727 | \$ 735,869   |
|                                                                                                       | <hr/>        | <hr/>        |

**WAUSAU SEWER UTILITY REVENUE & EXPENSE ANALYSIS**  
4 YEAR COMPARISON AS OF SEPTEMBER 30, 2021



| SEWER REVENUE        | JAN     | FEB     | MAR     | APR     | MAY     | JUN     | JUL            | AUG     | SEP            | OCT     | NOV     | DEC     | TOTALS    |
|----------------------|---------|---------|---------|---------|---------|---------|----------------|---------|----------------|---------|---------|---------|-----------|
| Swr Rev 2018         | 301,205 | 475,813 | 431,153 | 343,019 | 511,048 | 373,395 | 447,960        | 541,053 | 512,411        | 371,017 | 613,820 | 534,078 | 5,455,973 |
| Swr Rev 2019         | 300,631 | 481,028 | 434,643 | 396,415 | 636,115 | 438,814 | 533,542        | 584,840 | 517,217        | 419,839 | 684,077 | 670,837 | 6,097,998 |
| Swr Rev 2020         | 365,677 | 554,026 | 465,526 | 397,838 | 604,296 | 402,841 | 475,298        | 591,839 | 560,313        | 417,010 | 719,327 | 728,469 | 6,282,461 |
| Swr Rev 2021         | 446,439 | 607,209 | 588,942 | 441,007 | 748,132 | 475,187 | 599,764        | 736,135 | 797,295        |         |         |         | 5,440,111 |
| Change over Prior Yr | 22.1%   | 9.6%    | 26.5%   | 10.9%   | 23.8%   | 18.0%   | 26.2%          | 24.4%   | 42.3%          |         |         |         | 23.1%     |
|                      |         |         |         |         |         |         | 2021 Rate Incr |         | 2020 Rate Incr |         |         |         |           |

| SEWER OP&MAINT EXP   | JAN     | FEB     | MAR     | APR     | MAY                   | JUN     | JUL     | AUG     | SEP     | OCT     | NOV                    | DEC             | TOTALS    |
|----------------------|---------|---------|---------|---------|-----------------------|---------|---------|---------|---------|---------|------------------------|-----------------|-----------|
| Swr Exp 2018         | 200,090 | 240,192 | 225,336 | 305,188 | 238,844               | 294,728 | 232,575 | 248,929 | 215,114 | 207,301 | 214,232                | 570,689         | 3,193,217 |
| Swr Exp 2019         | 189,059 | 277,260 | 232,249 | 348,348 | 292,492               | 285,586 | 227,457 | 241,503 | 242,073 | 259,724 | 248,202                | 612,461         | 3,456,415 |
| Swr Exp 2020         | 200,999 | 236,715 | 212,016 | 224,784 | 243,581               | 274,074 | 219,117 | 258,807 | 226,306 | 244,661 | 206,232                | 395,359         | 2,942,652 |
| Swr Exp 2021         | 173,668 | 245,507 | 245,781 | 303,637 | 384,115               | 268,890 | 290,731 | 275,930 | 209,881 |         |                        |                 | 2,398,140 |
| Change over Prior Yr | -13.6%  | 3.7%    | 15.9%   | 35.1%   | 57.7%                 | -1.9%   | 32.7%   | 6.6%    | -7.3%   |         |                        |                 | 14.4%     |
|                      |         |         |         |         | 2021 Repair Swr break |         |         |         |         |         | 2016 BldgMtrl, SwrRprs | 2016 Sldg Hndlg |           |

Notes:

\* Expenses for all years have been adjusted for monthly allocation of annual meter expense and annual central services cost



**CITY OF WAUSAU**  
**SOLE SOURCE PURCHASE JUSTIFICATION**  
**REQUIRED FORM PURCHASE OF GOODS OR SERVICES EXCEEDING \$5,000**

Purchase of goods or services for no more than \$25,000 may be made without competition when it is agreed *in advance* between the Department Head and the Finance Director. Sole source purchasing allows for the procurement of goods and services from a single source without soliciting quotes or bids from multiple sources. Sole source procurement cannot be used to avoid competition, rather it is used in certain situations when it can be documented that a vendor or contractor holds a unique set of skills or expertise, that the services are highly specialized or unique in character or when alternate products are unavailable or unsuitable from any other source. Sole source purchasing should be avoided unless it is clearly necessary and justifiable. The justification must withstand public and legislative scrutiny. The Department Head is responsible for providing written documentation justifying the valid reason to purchase from one source or that only one source is available. Sole source purchasing criteria include: urgency due to public safety, serious injury financial or other, other unusual and compelling reasons, goods or service is available from only one source and no other good or service will satisfy the City's requirements, legal services provided by an attorney, lack of acceptable bids or quotes, an alternate product or manufacturer would not be compatible with current products resulting in additional operating or maintenance costs, standardization of a specific product or manufacturer will result in a more efficient or economical operation or aesthetics, or compatibility is an overriding consideration, the purchase is from another governmental body, continuity is achieved in a phased project, the supplier or service demonstrates a unique capability not found elsewhere, the purchase is more economical to the city on the basis of time and money of proposal development.

- 1. Sole source purchase under \$5,000 shall be evaluated and determined by the Department Head.
- 2. Sole source purchase of \$5,000 to \$25,000 a formal written justification shall be forwarded to the Finance Director who will concur with the sole source or assist in locating additional competitive sources.
- 3. Sole source purchase exceeding \$25,000 must be approved by the Finance Committee.

☒ **Ongoing Sole Source – 365 days**                      ☐ **One Time Sole Source Request**

- 1. Provide a detailed explanation of the good or service to be purchased and vendor.  
Clarion 415 is an Alum/Polymer blend designed specifically for our plant to remove Iron and manganese from raw well water.
- 2. Provide a brief description of the intended application for the service or goods to be purchased.  
This chemical is used specifically for water treatment, the removal of Iron and Manganese.
- 3. State why other products or services that compete in the market will not or do not meet your needs or comply with your specifications.  
Historically Iron and Manganese removal was accomplished with just the use of Alum, this worked but removal rates were poor. After the use of the Clarion 415, product consumption went down by over half and removal rates drastically increased.
- 4. Describe your efforts to identify other vendors to furnish the product or services.  
This product is proprietary and can only be made or distributed by the vendor owning the rights.
- 5. How did you determine that the sole source vendor's price was reasonable?  
Similar products on the market are comparably priced.

Which of the following best describes this sole source procurement? Select all that apply.

- ☒ Product or vendor is uniquely qualified with capability not found elsewhere.
- ☐ Urgency due to public safety, serious financial injury or other. (explain)
- ☒ The procurement is of such a specialized nature that by virtue of experience, expertise, proximity or ownership of intellectual property
- ☐ Lack of acceptable quotes or bids.
- ☒ Product compatibility or the standardization of a product.
- ☐ Continuation of a phased project.
- ☐ Proposal development is uneconomical.

**Department: Water**

**Preparer: Scott Boers**

**Vendor Name: Chemtrade Chemicals**

**Expected amount of purchase or contract: \$Approx. \$100,000.00 dependent upon supply needs**

**Department Head Signature:**

**Date:**

**Finance Director Signature:**

**Date:**



**CITY OF WAUSAU**  
**SOLE SOURCE PURCHASE JUSTIFICATION**  
**REQUIRED FORM PURCHASE OF GOODS OR SERVICES EXCEEDING \$5,000**

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- 3. Sole source purchase exceeding \$25,000 must be approved by the Finance Committee.

☒ **Ongoing Sole Source – 365 days**                      ☐ **One Time Sole Source Request**

1. Provide a detailed explanation of the good or service to be purchased and vendor.

Clarion 700 is a water treatment chemical designed specifically for our plant to aid in the precipitation of contaminants from our well water.

2. Provide a brief description of the intended application for the service or goods to be purchased.  
Clarion 700 “activates” the sodium silicate added to the raw water causing the silicate to adhere to floc formed in the clarifier. This addition of silicate to the floc adds weight which aids in precipitation. This greatly enhances contaminate removal efficiencies.

3. State why other products or services that compete in the market will not or do not meet your needs or comply with your specifications.

This product works well in our system. It was designed to be compatible with our specific water chemistry and treatment chemicals. A known alternative to the addition of the Clarion 700 would be Sulfuric Acid. The addition of this acid would cause safety issues and have many storage and handling costs associated with it. Clarion 700 is a safer less expensive option.

4. Describe your efforts to identify other vendors to furnish the product or services.  
This product is proprietary and can only be made or distributed by the vendor owning the rights.

5. How did you determine that the sole source vendor's price was reasonable?  
Similar products in the market are comparably priced.

6. Which of the following best describes this sole source procurement? Select all that apply.

- ☒ Product or vendor is uniquely qualified with capability not found elsewhere.
- ☐ Urgency due to public safety, serious financial injury or other. (explain)
- ☒ The procurement is of such a specialized nature that by virtue of experience, expertise, proximity or ownership of intellectual property
- ☐ Lack of acceptable quotes or bids.
- ☒ Product compatibility or the standardization of a product.
- ☐ Continuation of a phased project.
- ☐ Proposal development is uneconomical.

**Department: Water**

**Preparer: Scott Boers**

**Vendor Name: Wausau Chemical Corporation**

**Expected amount of purchase or contract: Approx. \$15,000.00 dependent upon supply needs**

**Department Head Signature:**

**Date:**

**Finance Director Signature:**

**Date:**



**CITY OF WAUSAU**  
**SOLE SOURCE PURCHASE JUSTIFICATION**  
**REQUIRED FORM PURCHASE OF GOODS OR SERVICES EXCEEDING \$5,000**

Purchase of goods or services for no more than \$25,000 may be made without competition when it is agreed *in advance* between the Department Head and the Finance Director. Sole source purchasing allows for the procurement of goods and services from a single source without soliciting quotes or bids from multiple sources. Sole source procurement cannot be used to avoid competition, rather it is used in certain situations when it can be documented that a vendor or contractor holds a unique set of skills or expertise, that the services are highly specialized or unique in character or when alternate products are unavailable or unsuitable from any other source. Sole source purchasing should be avoided unless it is clearly necessary and justifiable. The justification must withstand public and legislative scrutiny. The Department Head is responsible for providing written documentation justifying the valid reason to purchase from one source or that only one source is available. Sole source purchasing criteria include: urgency due to public safety, serious injury financial or other, other unusual and compelling reasons, goods or service is available from only one source and no other good or service will satisfy the City's requirements, legal services provided by an attorney, lack of acceptable bids or quotes, an alternate product or manufacturer would not be compatible with current products resulting in additional operating or maintenance costs, standardization of a specific product or manufacturer will result in a more efficient or economical operation or aesthetics, or compatibility is an overriding consideration, the purchase is from another governmental body, continuity is achieved in a phased project, the supplier or service demonstrates a unique capability not found elsewhere, the purchase is more economical to the city on the basis of time and money of proposal development.

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- 3. Sole source purchase exceeding \$25,000 must be approved by the Finance Committee.

☒ Ongoing Sole Source – 365 days

☐ One Time Sole Source Request

1. Provide a detailed explanation of the good or service to be purchased and vendor.

Aqua Ammonia is a chemical we add to the water for disinfection.

2. Provide a brief description of the intended application for the service or goods to be purchased.

Addition of Aqua Ammonia aids in providing safe water.

3. State why other products or services that compete in the market will not or do not meet your needs or comply with your specifications.

This is the most economical and reliable source of Aqua Ammonia that I could locate in the state.

4. Describe your efforts to identify other vendors to furnish the product or services.

Several vendors sell Ammonia but few provide ANSI 60 Certified Aqua Ammonia as required by the WDNR for water treatment. I contacted the only two manufacturers in the state as well as several vendors. Martelle was the only company that could provide a steady supply at a reasonable price for the amount we use.

5. How did you determine that the sole source vendor's price was reasonable?

Polling and quote requests to other vendors.

6. Which of the following best describes this sole source procurement? Select all that apply.

- ☒ Product or vendor is uniquely qualified with capability not found elsewhere.
- ☐ Urgency due to public safety, serious financial injury or other. (explain)
- ☐ The procurement is of such a specialized nature that by virtue of experience, expertise, proximity or ownership of intellectual property
- ☐ Lack of acceptable quotes or bids.
- ☒ Product compatibility or the standardization of a product.
- ☐ Continuation of a phased project.
- ☐ Proposal development is uneconomical.

**Department: Water**

**Preparer: Scott Boers**

**Vendor Name: Martelle Water Treatment**

**Expected amount of purchase or contract: \$20,000.00 depending upon supply needs**

**Department Head Signature:**

**Date:**

**Finance Director Signature:**

**Date:**

AMENDMENT NO. 1 TO  
PRODUCT SUPPLY AGREEMENT  
BETWEEN  
AIR PRODUCTS AND CHEMICALS, INC.  
AND WAUSAU WATER WORKS

THIS AMENDMENT, dated and effective this 26<sup>th</sup> day of October 2021, by and between AIR PRODUCTS AND CHEMICALS, INC. (“Seller”), and WAUSAU WATER WORKS (“Buyer”).

WITNESSETH:

WHEREAS, Seller and Buyer are parties to a Product Supply Agreement dated 1 January 2022, as amended (the “Agreement”), for supply of Carbon Dioxide to Buyer’s facilities at 407 Grant Street, Wausau, WI 54403; and

WHEREAS, the parties now wish to amend certain aspects of the Agreement.

NOW, THEREFORE, Seller and Buyer have agreed to amend the Agreement as follows, intending to be legally bound hereby:

1. The current Unit Price of \$135 per ton shall increase to \$140 per ton as of January 1, 2022, per Section 7 of the Agreement.
2. The initial Term of the Agreement shall be extended 1 year through December 31, 2022, at which time the Agreement shall end.

Except as expressly set forth herein, all of the terms and conditions of the Agreement shall remain unchanged and continue in full force and effect.

IN WITNESS WHEREOF, the parties have caused this Amendment to be signed by their duly authorized representatives as of the day and year first above written.

WAUSAU WATER WORKS

ACCEPTED AND AGREED TO:  
AIR PRODUCTS AND CHEMICALS, INC.

By: \_\_\_\_\_

By: \_\_\_\_\_

Name: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

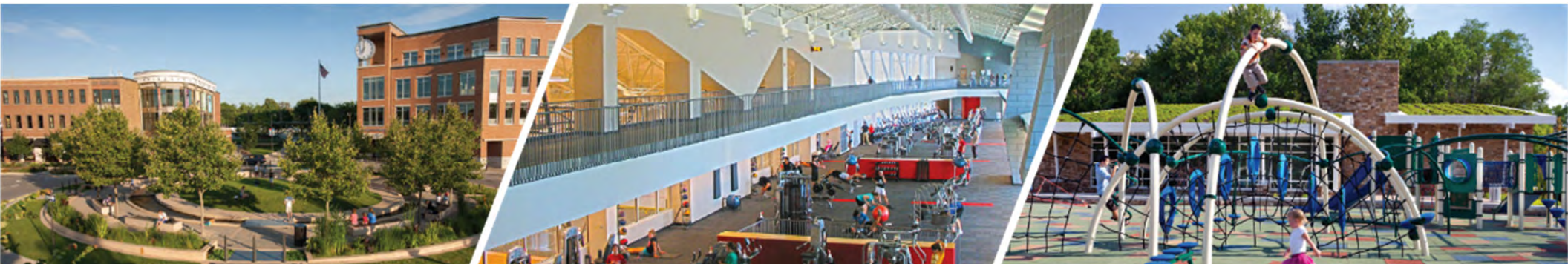
Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_



Engineering Quality of Life®



## Wausau DWTF Solar

Wausau Water Works Commission Update – November 2, 2021



## Today's Discussion

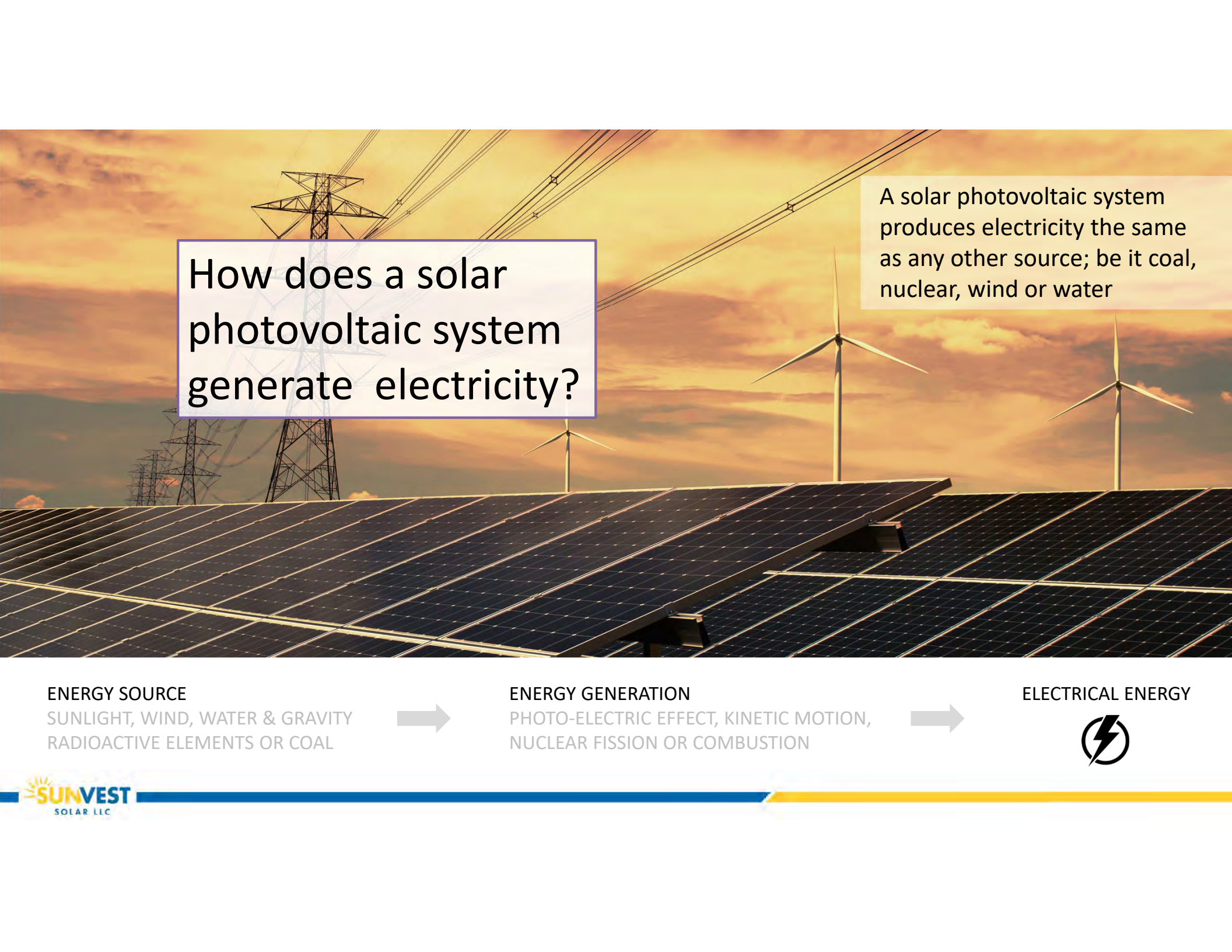
- › Solar – Overview & Benefits
- › DWTF Solar Project Background & Where We Are Today
- › Solar Array Sizes and Basis of Design
- › Funding Scenarios
- › Project Priorities & Determining the Next Steps



## Today's Discussion

### › Solar – Overview & Benefits

- › DWTF Solar Project Background & Where We Are Today
- › Solar Array Sizes and Basis of Design
- › Project Cost Scenarios
- › Project Priorities & Determining the Next Steps



## How does a solar photovoltaic system generate electricity?

A solar photovoltaic system produces electricity the same as any other source; be it coal, nuclear, wind or water

### ENERGY SOURCE

SUNLIGHT, WIND, WATER & GRAVITY  
RADIOACTIVE ELEMENTS OR COAL



### ENERGY GENERATION

PHOTO-ELECTRIC EFFECT, KINETIC MOTION,  
NUCLEAR FISSION OR COMBUSTION



### ELECTRICAL ENERGY



# SOLAR PV COMPONENT PARTS

SOLAR ARRAY

SOLAR MODULE

SOLAR CELL

### MEASURE OF POWER

1 MW = 1,000 kW

1,000 kW = 1,000,000 W

### MEASURE OF ENERGY

kWh = POWER x TIME

Kilowatt-hour (kWh) is the unit of measure you see on your utility bills



# 1 kilowatt-hour (kWh) =



(1) 100W  
light bulb  
for 10  
hours



(10) 10W  
LED light  
bulbs for  
10 hours



(1) 2,000W  
hair dryer  
for 30  
minutes

---

Why pay when you could generate your own energy?

---



## ENVIRONMENTAL BENEFITS OF GOING SOLAR

### GREENHOUSE GASES, AIR POLLUTION & WATER POLLUTION

Solar energy does not require burning of fossil fuels resulting in less pollution in our air, water and atmosphere

### CONSERVING NATURAL RESOURCES & PROTECTION

The use of solar helps us conserve natural resources such as coal, oil and natural gas as well as the water it takes to run the equipment

# WHY GO SOLAR?

REDUCE YOUR  
CARBON FOOTPRINT



REPLENISHABLE  
SOURCE OF ENERGY



1 HOUR OF SUNSHINE =  
1 YEAR OF POWER FOR  
THE GLOBE



LOW MAINTENANCE,  
NO HASSLE



SAVE MONEY –  
YOU START REAPING  
BENEFITS FROM DAY 1  
OF INSTALLATION



MOST SECURE  
INVESTMENT



PERFECT APPROACH  
FOR REMOTE AREAS





Solar is the **most abundant** energy source in the world

We could collect enough energy for an entire year **in just 1 hour**

The cost to install solar has **fallen by 89%** in the last decade

Solar power **will get stronger** as more use it

Solar is the **quickest energy source** you can deploy

Solar modules **do NOT** need direct sunlight to work properly

**50% of new energy** in 2019 in the U.S. came from solar

**Solar is cheaper** than coal

Solar energy is responsible for **242,000 jobs**

Solar energy **does not contribute** to noise pollution

# DID YOU KNOW?

## OTHER BENEFITS OF GOING SOLAR

### ECONOMIC BENEFITS

Customers who install solar can expect to see a ROI within 3-5 years from installation. Property owners can continue to rely on net metering opportunities to reduce their electric bill significantly.

### LOCAL JOBS

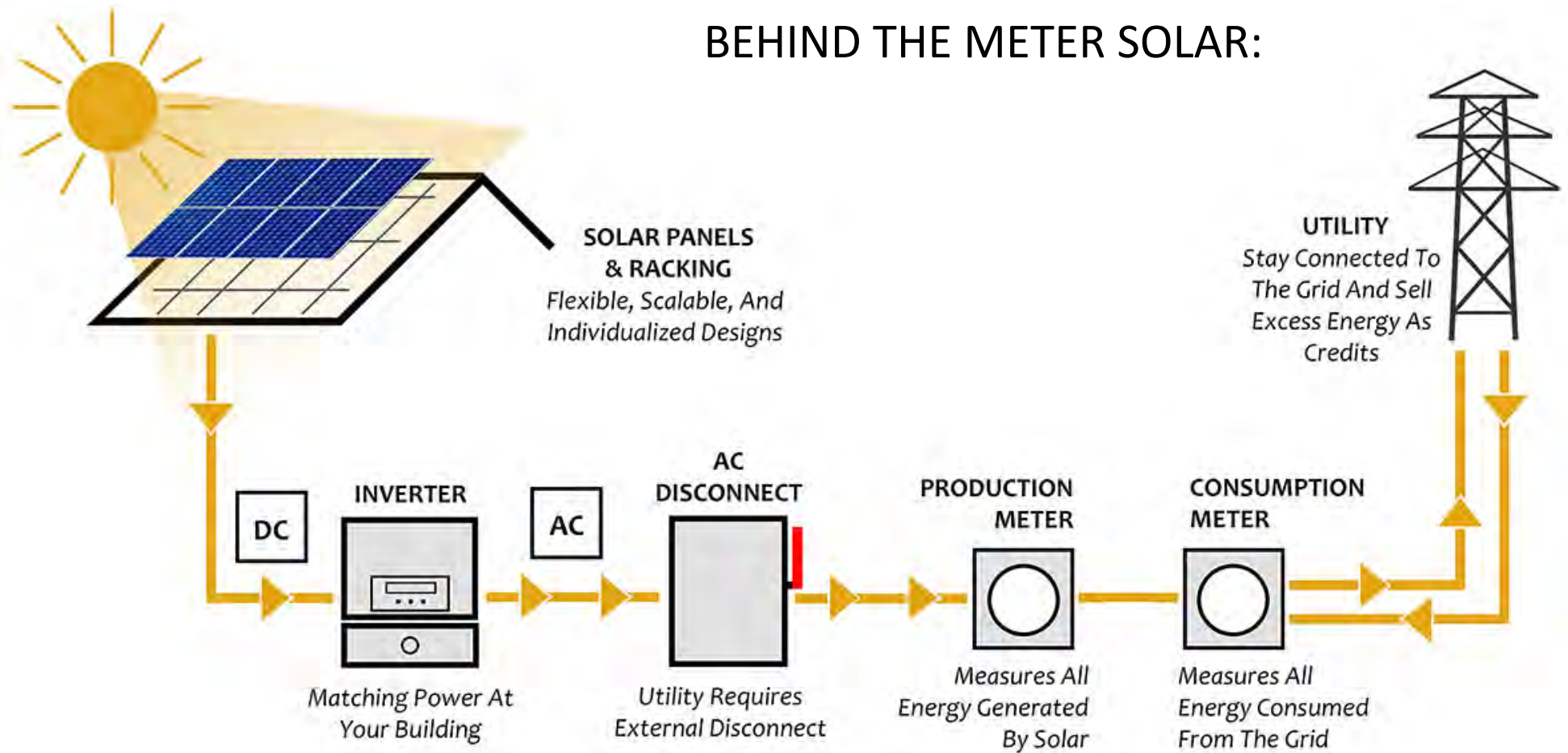
Employment in the solar industry has increased 44% in the last 5 years which is 5-times faster than job growth in the U.S. economy.

### EDUCATION BENEFITS

The ripple effect happens when a business installs solar, increasing the curiosity and eventually the need for other businesses to invest in solar.



## BEHIND THE METER SOLAR:





GROUND MOUNT



## **UW-Parkside College**

WISCONSIN (2.83MW-dc)

The University of Wisconsin  
– Parkside in Kenosha,  
Wisconsin now boasts a 2.83  
MW-dc Solar Array Ground  
Mount System

This project is part of the  
Solar Now project  
spearheaded by WEC Energy  
Group and We Energies.



## **People's Gas**

ILLINOIS (1.3MW-dc)

Ground Mount at Manlove  
Field at People's Gas Facility

Designed in accordance with  
local utility rules



## SOLAR ASSEMBLY PROCESS – GROUND MOUNT



Solar Modules Performance Warranty: 25 years | Racking Warranty: 25 years  
Inverter product warranty: 12 years | SunVest Solar Workmanship Warranty: 5 years

# WISCONSIN STATE INCENTIVES



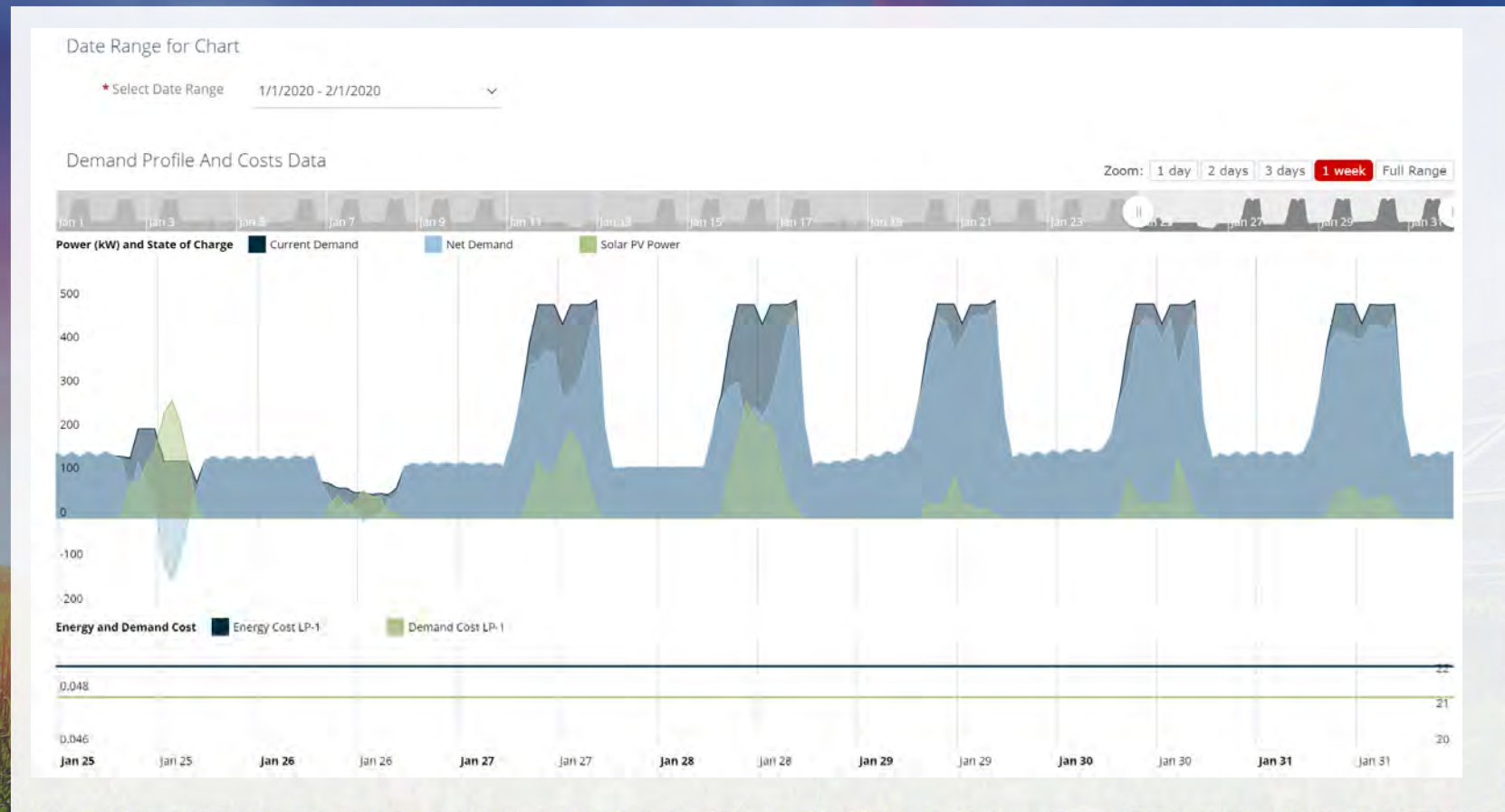
Offering businesses a cash rebate for solar installations

## NET METERING

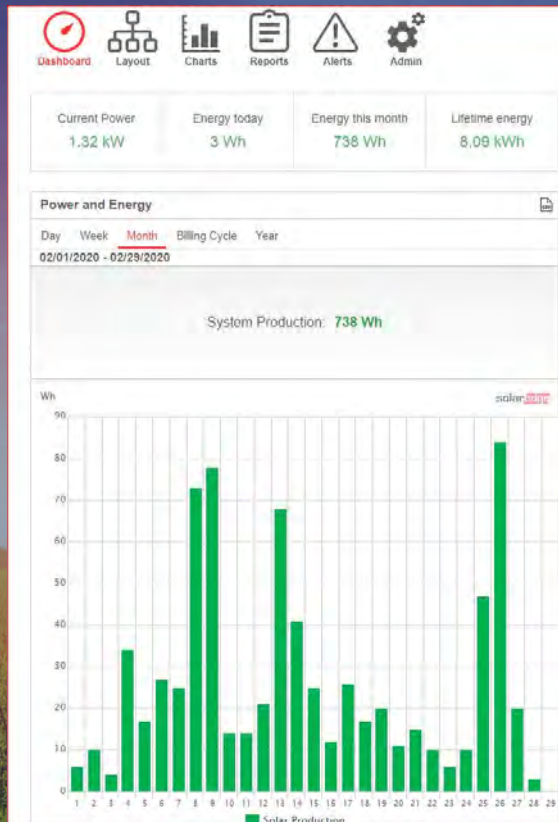
Customers use energy produced and sell the remaining unused energy for credit

## WISCONSIN SOLAR ACCESS RIGHTS

Ensures that your solar panels cannot be blocked from its main resource; the sun



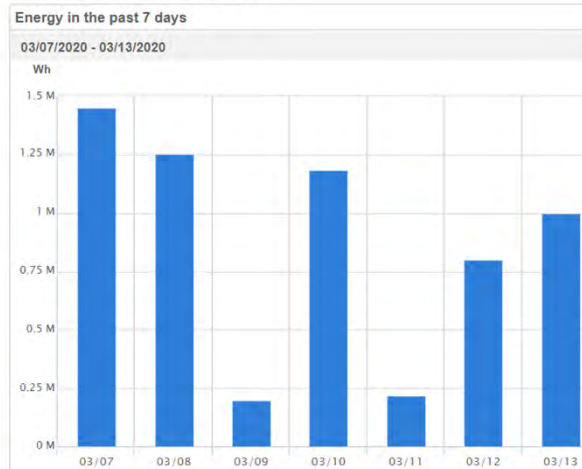
## SYSTEM MONITORING



### System Performance

| Current Power | Energy today | Energy this month | Lifetime energy |
|---------------|--------------|-------------------|-----------------|
| 282.24 kW     | 1 MWh        | 12.29 MWh         | 437.02 MWh      |

### Power and Energy



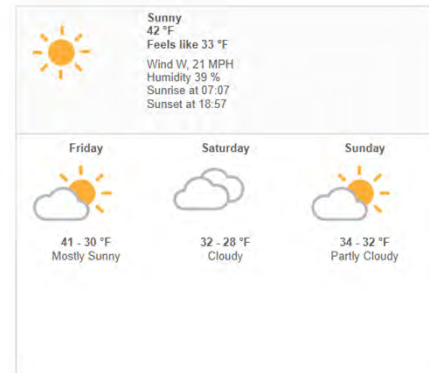
Last update: 03/13/2020 1:43 PM



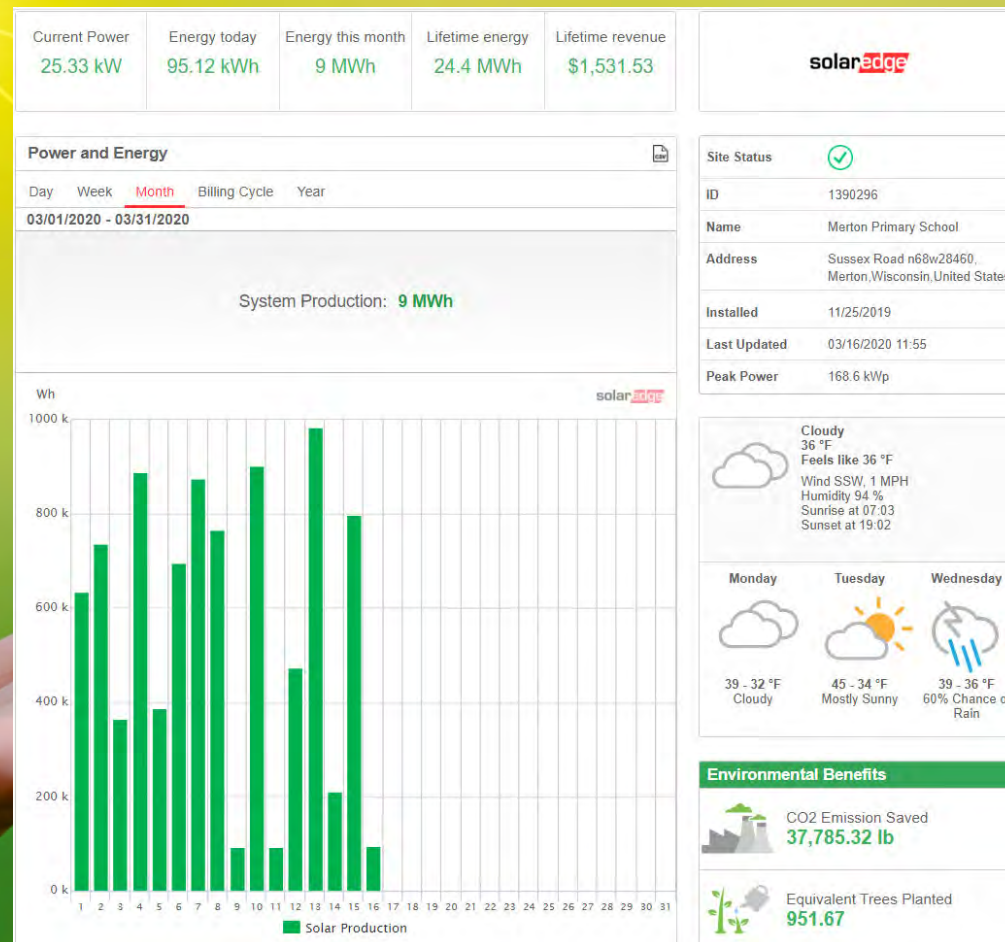
### Environmental Benefits

CO2 Emission Saved  
**676,704.63 lb**

Equivalent Trees Planted  
**17,043.72**



**solar**edge





## POSITIVE ENVIRONMENTAL BENEFITS

Clean energy generation of 123750 kWh per year:



Electrical usage of 11  
average homes offset



73490 miles not driven  
(based on greenhouse  
gas emissions)



165000 pounds of coal  
not burned (based on  
CO2 emissions)



## Today's Discussion

- › Solar – Overview & Benefits
- › DWTF Solar Project Background & Where We Are Today
- › Solar Array Sizes and Preliminary Basis of Design
- › Project Cost Scenarios
- › Project Priorities & Determining the Next Steps

## DWTF Solar Project Background & Where We Are Today

### > RFP Request

- Array Sizing for 40%, 60%, & 90% of the Annual Electrical Consumption of the Proposed DWTF.
- Located north of the proposed DWTF.

The Utility is pursuing owning and operating a solar generating system which would supplement power for the new DWTF. The Utility is confident that owning and operating a solar generating system and utilizing all of the power it generates will be the best path forward at this time and have the best overall operation and financial benefit.

In 2016 the Utility purchased property that is in the Village of Maine adjacent to the new DWTF. It is proposed to construct the ground mounted solar array on this property and to dedicate an appropriate area of the parcel for a properly sized solar generation system and possible expansion in the future. The exact location of the solar array will be determined once the hired engineering firm determines the proper size and space required. In general the property area is shown in Appendix A.





## DWTF Solar Project Background & Where We Are Today

### › Basis of Design - Concept

- 3,000,000 kWh Calculated DWTF Annual Electrical Consumption
  - Based on load information and process run times from the Process Engineer
- 0.83-1.86 MW Output size (DC) for 40-90% Consumption
- 6-15 Acres of Suitable Land

### › Conceptual Site Planning – Original RFP Areas

- Site Planning – Areas north of the DWTF deemed unsuitable
  - Subsurface Conditions (former construction waste)
  - DWTF Stormwater Basin relocation
  - Aggregate Stockpile



## DWTF Solar Project Background & Where We Are Today

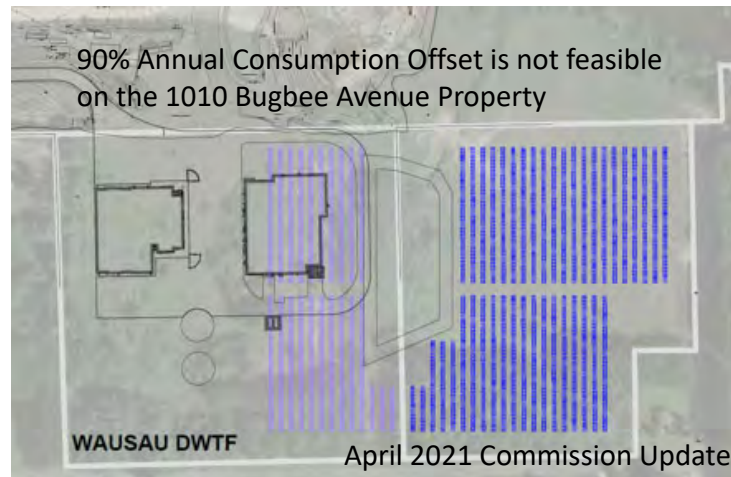
- Conceptual Site Planning – 1010 Bugbee Avenue
  - Property became available for purchase.
  - City performed test pit excavations and Phase I ESA.
  - No items of concerns were encountered.
  - City Purchase of the Property.
- 1010 Bugbee Avenue is the Selected Project Site
  - 7 Acres
  - Located in the City Limits
  - Adjacent to the Proposed DWTF
  - Gentle Topography

# 1010 Bugbee Avenue Preliminary Design & Planning

## > Site Constraints

- 90% annual consumption offset limited by land availability
- 59% annual consumption offset with full use of 1010 Bugbee and areas directly to the north.
  - Potential system size 1.26 MW
  - Annual production: 1,775,000 kWh

## > The Property fits the parameters of the original RFP.



# Preliminary Layout – 1010 Bugbee June 2021





## 1010 Bugbee Avenue Preliminary Design & Planning

- Costs and Funding Scenarios Developed (June Commission)
  - Full use of the Bugbee Avenue property
  - Present Worth Analysis Performed
    - Do Nothing
    - City-owned/operated with borrowing of the full capital cost
    - WPS NatureWise (two purchase commitment scenarios)
  - Charged with preparing more cost/revenue information options and array size scenarios.
  
- Public Information Meeting (late August)
  - Public feedback gathered for incorporation into future design considerations.
    - Tree removal, site access, security, environmental benefits, maintenance, etc.
  - Future public information meeting once the preliminary design more developed.



## Today's Discussion

- › Solar – Overview & Benefits
- › DWTF Solar Project Background & Where We Are Today
- › **Solar Array Sizes and Basis of Design**
- › Project Cost Scenarios
- › Project Priorities & Determining the Next Steps



# Solar Array Sizes and Basis of Design

## > Basis of Design

- Obtain WPS load profile (how electricity is used and when) for the existing water plant.
  - Usage is relatively consistent throughout a 24-hour period. This was unexpected.
- Extrapolate the load profile to apply to the new DWTF anticipated load
- Consider generation profile of the proposed array size(s)
- Does not reflect operational opportunities that may be derived after plant start-up

## > Array Sizes

- 226 kW
  - Provides power for baseline electrical load, little or no sell back
- 498 kW
  - Provides power for future growth and to capture some loads above the baseline, some initial sell back
- 1.26 MW (presented at the August 2021 Public Information Meeting)
  - Maximizes the area of the property, provides all power the plant needs during hours of peak operation, initial and long-term sell back.

## 226 kW Array

- › System size: 226 kW
- › Single Axis Tracking
- › Production: 313,000 kW
- › Budget Price: \$0.56 M
- › Provides power for baseline electrical load, little or no sell back

“Budget Price” is array construction only and does not include land, engineering, legal or other project-related costs.

Price per watt is currently elevated due to current material (panels, racking, inverters, steel, etc.) cost increases.

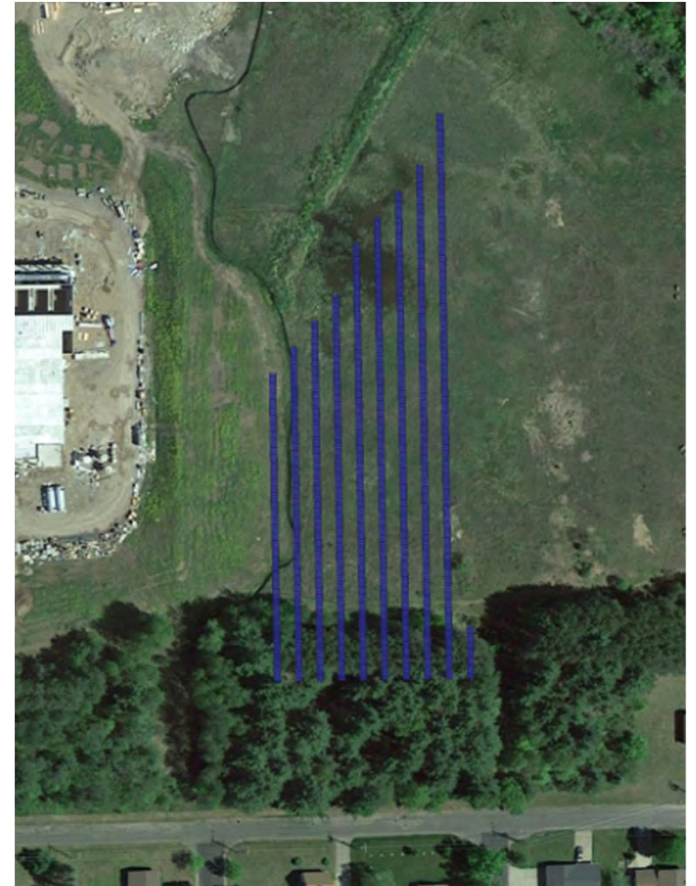


## 498 kW Array

- › System size: 498.5 kW
- › Single Axis Tracking
- › Production: 707,657 kW
- › Budget Price: \$1.06 M
- › Provides power for future growth and to capture some loads above the baseline, some initial sell back.

“Budget Price” is array construction only and does not include land, engineering, legal or other project-related costs.

Price per watt is currently elevated due to current material (panels, racking, inverters, steel, etc.) cost increases.

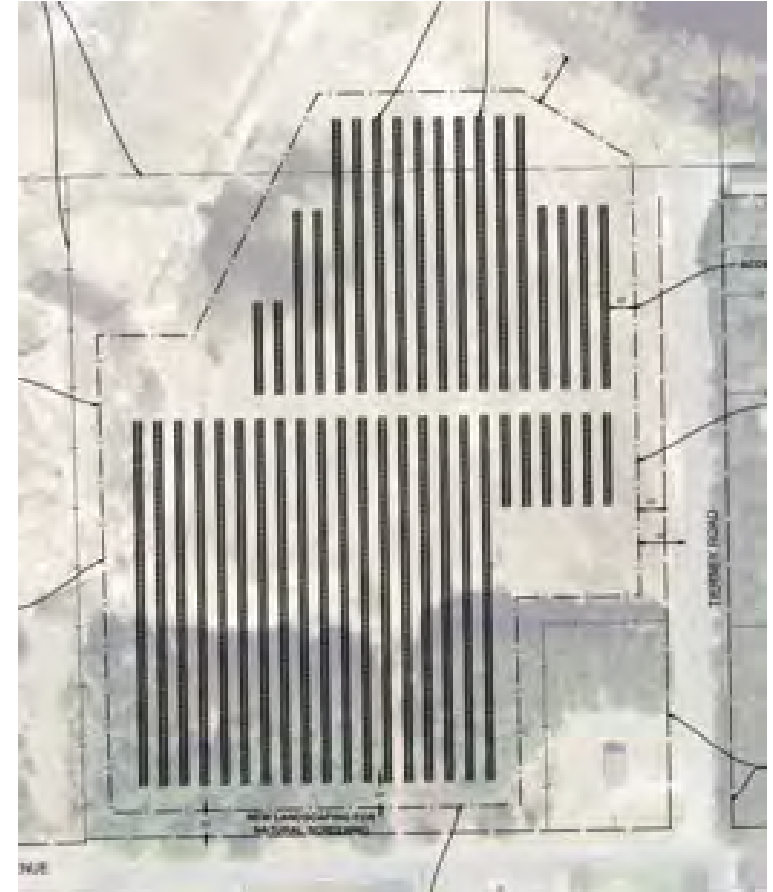


## 1.26 MW Array

- › System size: 1.26 kW
- › Single Axis Tracking
- › Production: 1,775,000 kWh
- › Budget Price: \$2.04 M
- › Maximizes the area of the property, provides all power the plant needs during hours of peak operation, initial and long-term sell back.

“Budget Price” is array construction only and does not include land, engineering, legal or other project-related costs.

Price per watt is currently elevated due to current material (panels, racking, inverters, steel, etc.) cost increases.





## Today's Discussion

- › Solar – Overview & Benefits
- › DWTF Solar Project Background & Where We Are Today
- › Solar Array Sizes and Basis of Design
- › **Project Cost Scenarios**
- › Project Priorities & Determining the Next Steps



## Project Cost Scenarios

### > Funding Options:

- WPS Owned (NatureWise)
- Other Third-party Owned (Not allowed in WI)
- City Owned
  - 3 Array Size Alternatives (226 kW, 498kW, 1.26 MW)
  - Capital Costs
    - Borrowing
    - Supplemental Grant



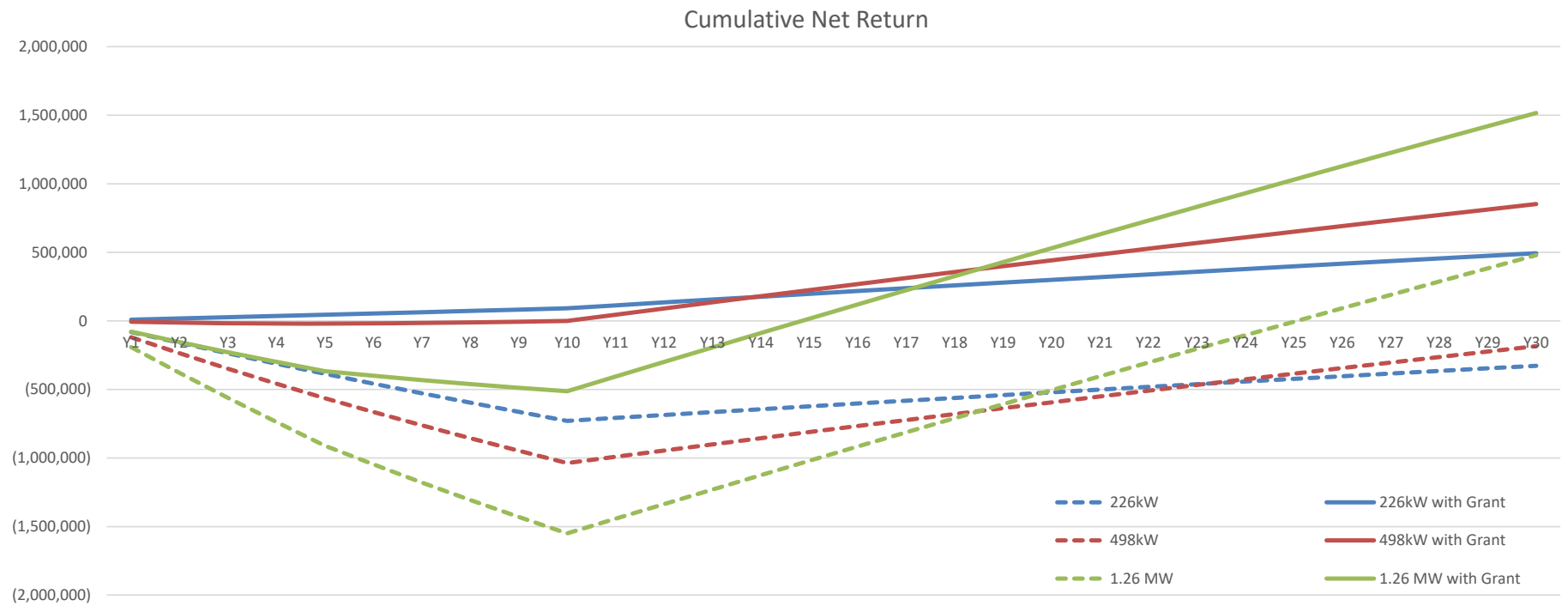
## Project Cost Scenarios – City Owned

### › Assumptions

- All project costs are included (land, engineering, legal, construction, contingency)
- Borrowing Terms: 10 years @ 2.5%
- Grant scenarios assume \$1 M grant.
- The City is not eligible for tax credits
- 2% Escalation assumed on sell back, O&M, and utility electric rates
- Assumed increase in sell back rate 5 years after installation (due to anticipated future legislative change in WI)
- The load profile is consistent across all scenarios. (Future operational adjustments are not reflected.)



# Project Cost Scenarios – City Owned





## Project Cost Scenarios – City Owned

|                     | 226kW                                                               |        | 498kW                                                                                             |        | 1.26MW                                                                                                                      |         |
|---------------------|---------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------|---------|
| Sizing criteria     | Provides power for baseline electrical load, little or no sell back |        | Provides power for future growth and to capture some loads above baseline, some initial sell back |        | Maximizes area of property, provides all power the plant needs during hours of peak operation, initial and future sell back |         |
| Total Capital Cost  | 917,102                                                             |        | 1,427,000                                                                                         |        | 2,403,000                                                                                                                   |         |
| Annual Capital Cost |                                                                     |        |                                                                                                   |        |                                                                                                                             |         |
| Year 1   Year 11    | 103,746                                                             | 0      | 161,428                                                                                           | 0      | 271,868                                                                                                                     | 0       |
| Annual Savings      |                                                                     |        |                                                                                                   |        |                                                                                                                             |         |
| Year 1   Year 11    | 22,236                                                              | 25,081 | 42,107                                                                                            | 55,940 | 80,015                                                                                                                      | 130,603 |
| Realize Savings     | Yr 11                                                               |        | Yr 11                                                                                             |        | Yr 11                                                                                                                       |         |
| ROI                 | 30+                                                                 |        | 30+                                                                                               |        | 25                                                                                                                          |         |
| With \$1M Grant     |                                                                     |        |                                                                                                   |        |                                                                                                                             |         |
| Annual Capital Cost |                                                                     |        |                                                                                                   |        |                                                                                                                             |         |
| Year 1   Year 11    | 14,140                                                              | 0      | 48,304                                                                                            | 0      | 158,744                                                                                                                     | 0       |
| Annual Savings      |                                                                     |        |                                                                                                   |        |                                                                                                                             |         |
| Year 1   Year 11    | 22,236                                                              | 25,081 | 42,107                                                                                            | 55,940 | 80,015                                                                                                                      | 130,603 |
| Realize Savings     | Yr 1                                                                |        | Yr 6                                                                                              |        | Yr 11                                                                                                                       |         |
| ROI                 | 0                                                                   |        | 11                                                                                                |        | 15                                                                                                                          |         |



## Today's Discussion

- › Solar – Overview & Benefits
- › DWTF Solar Project Background & Where We Are Today
- › Solar Array Sizes and Basis of Design
- › Project Cost Scenarios
- › **Project Priorities & Determining the Next Steps**



## Project Priorities & Determining the Next Steps

### › Determine Project Priorities

- Environmental benefits and their importance
- Are economics the only consideration in this decision?
- Besides alternative energy what other benefits does this lead to for the city? (natural habitat, education/jobs, future similar projects, etc.)
- Future goals of the city related to energy use/consumption

### › Next Steps

- Consider public input related to alternative project proposals
- Determine if short term expenditure is worth the long-term benefit (economically and environmentally)
- Is owning/operating a power generation facility a long term benefit?
- Determine the utility's short- and long-term energy goals
- Decide to move ahead with alternative energy or do not pursue alternative energy



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Since 1946

**Strand Associates, Inc.® (SAI)**

## 2021 Collection System Study Identifies Sanitary Sewer Deficiencies and Pinpoints Infiltration and Inflow (I/I) Sources

City of Wausau, WI  
November 2, 2021



## Introductions – Project Staff

### Project Manager



Ryan Yentz, P.E.

### Project Engineer and Field Technician



Jake Collins, ENV SP

**I/I Consists of Clear Water that Enters the Sanitary Sewer System and is Conveyed to and Treated at the Wastewater Treatment Plant**



**Vented Covers/Open Pick Holes**

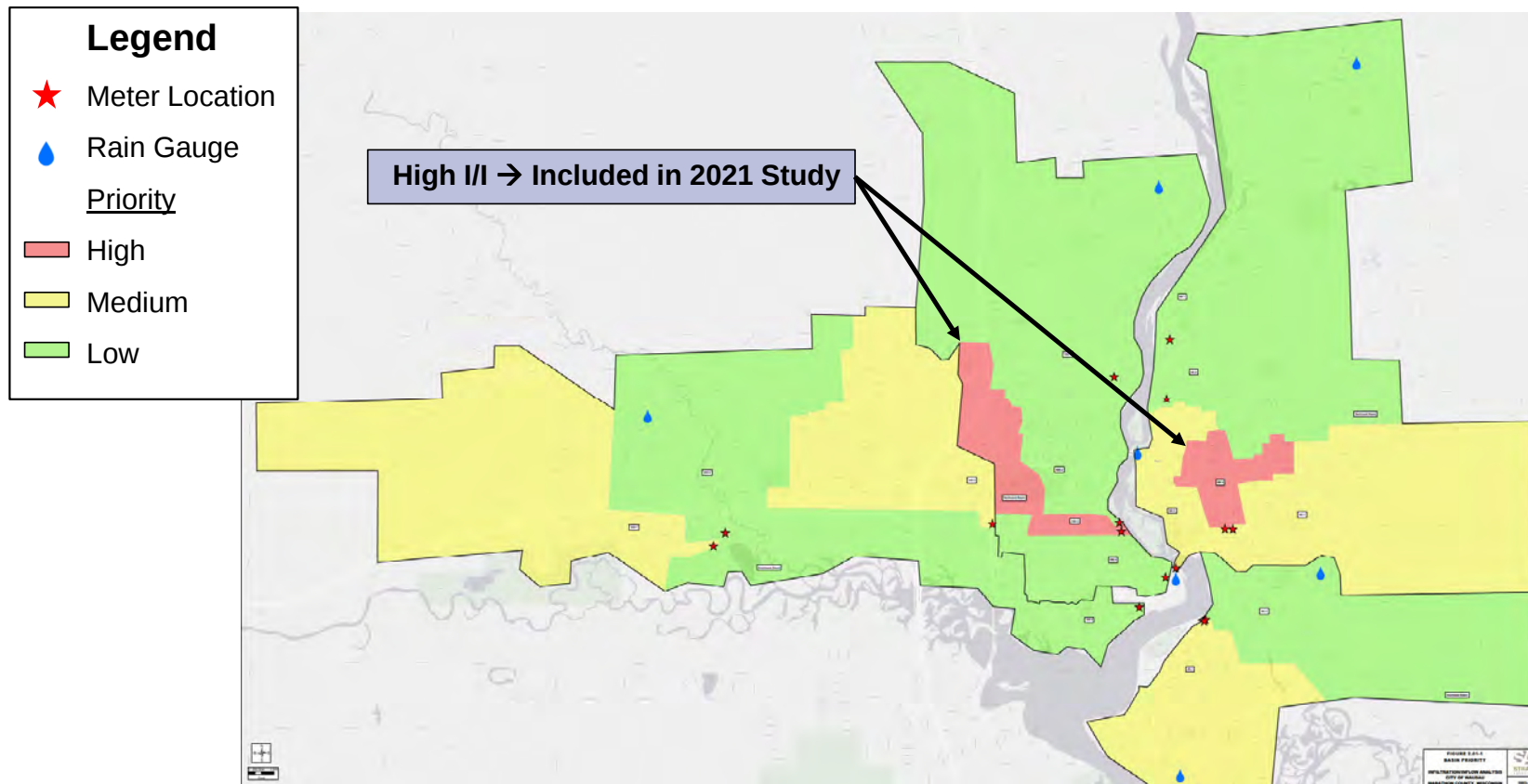


**Joints, Steps, Service Connections in Manholes**



**Joints, Service Connections in Sewers**

## 2020 Flow Metering Results Identify Basins Contributing the Most I/I



# Manhole Assessments Provide Condition Assessment of Public Infrastructure

|                                                 |                                                     |
|-------------------------------------------------|-----------------------------------------------------|
| Cover Shape: <b>C = Circular</b>                | Cover Type: <b>Conical Centered (CC)</b>            |
| Cover Material: <b>CAS = Cast Iron</b>          | Cover Material: <b>MHB = MH Block</b>               |
| Cover Type: <b>Vented/Slots</b>                 | Int_Cone Coating_Liner: <b>None (NC)</b>            |
| Number_Vent_Holes: <b>1</b>                     | Ext_Cone Coating_Liner: <b>None (NC)</b>            |
| Vent_Hole_Diameter: <b>1.50</b>                 | Rim_to_Invert_R1_R13: <b>8</b>                      |
| Cover_Frame_Fit: <b>Good (G)</b>                | Rim_to_Grade_R1_R13: <b>0</b>                       |
| Cover_Condition: <b>Sound</b>                   | MH_Diameter_1_ft: <b>4</b>                          |
| Gasket_Condition: <b></b>                       | MH_Diameter_2_ft: <b></b>                           |
| Adjusting_Ring_Type: <b>Solid (S)</b>           | Wall_Material_1: <b>MHB = MH Block</b>              |
| Adjusting_Ring_Condition: <b>Broken</b>         | Wall_Material_2: <b></b>                            |
| Adjustment_Ring_Height_R1: <b>8</b>             | Int_Wall Coating_Liner: <b>None (NC)</b>            |
| Frame Material: <b>CAS = Cast Iron</b>          | Ext_Wall Coating_Liner: <b>None (NC)</b>            |
| Frame_Condition: <b>Sound</b>                   | Bench_Present: <b>Yes (Y)</b>                       |
| Frame Seal Condition: <b>Loose/Not Attached</b> | Bench Coating_Liner: <b>None (NC)</b>               |
| Frame_Offset_Distance_R1: <b>0</b>              | Bench Material: <b>C = Concrete (Non-Rein)</b>      |
| Chimney Material_1: <b>BR = Brick</b>           | Channel_Installed: <b>Yes</b>                       |
| Int_Chim Coating_Liner: <b>None (NC)</b>        | Channel Material: <b>C = Concrete (Non-Reinfor)</b> |
| Condition IntChim Coating Lin                   | Channel Type: <b>Formed (F)</b>                     |
| Ext_Chim Coating_Liner: <b>None (NC)</b>        | Channel Exposure: <b>Fully Open (F)</b>             |
| Condition ExtChim Coating Lin                   | Number_Steps: <b>0</b>                              |
|                                                 | Step Material: <b></b>                              |

**Identified Components of Each Manhole from Rim to Invert**

|                                                                 |                                            |
|-----------------------------------------------------------------|--------------------------------------------|
| Overall_Structural_Condition: <b>5 Very Bad</b>                 | Overall_U/I_Condition: <b>4 Poor</b>       |
| Rehab Method 1: <b>Rebuild Top</b>                              | Rehab Method 2: <b>Resurface Manhole</b>   |
| Rehab Method 3: <b>Replace Frame and Cover</b>                  | Rehab Method 4: <b></b>                    |
| Additional Rehab Considerations: <b>2020/01/01 - 2020/01/01</b> |                                            |
| Candidate for monosform (SM, R1, diameter < 38")                |                                            |
| D1_Location: <b>CC = Cover Casting</b>                          | D2_Location: <b>CH = Chimney</b>           |
| D1_Code: <b>HD = Hole</b>                                       | D2_Code: <b>MBR = MissingBricks/Mortar</b> |
| D1_Rating: <b>Intermediate</b>                                  | D2_Rating: <b>Severe</b>                   |
| D1_R1: <b>Stains (S)</b>                                        | D2_R1: <b>Stains (S)</b>                   |
| D1_Comments: <b></b>                                            | D2_Comments: <b></b>                       |
| D3_Location: <b>WA = Wall</b>                                   | D4_Location: <b>PS = Pipe Seal</b>         |
| D3_Code: <b>MBR = MissingBricks/Mortar</b>                      | D4_Code: <b>DPS = Defective Pipe Seal</b>  |
| D3_Rating: <b>Minor</b>                                         | D4_Rating: <b>Minor</b>                    |
| D3_R1: <b>Stains (S)</b>                                        | D4_R1: <b>Stains (S)</b>                   |
| D3_Comments: <b></b>                                            | D4_Comments: <b></b>                       |
| D5_Location: <b></b>                                            | D6_Location: <b></b>                       |
| D5_Code: <b></b>                                                | D6_Code: <b></b>                           |
| D5_Rating: <b></b>                                              | D6_Rating: <b></b>                         |

**Specific Rehab Recommendations Provided for Each Manhole**

|                                                                                      |                          |                  |
|--------------------------------------------------------------------------------------|--------------------------|------------------|
| Waukegan                                                                             | 2021 Manhole Assessments | Manhole ID: 3265 |
|   |                          |                  |
|   |                          |                  |
|  |                          |                  |

**Multiple Photos Facilitate Future Review from Computer**

## Manhole Ratings Indicate Manholes in NE-4 are in Worse Condition Than Manholes in NW-3 Basin

| Overall Total Rating  | 1-2<br>Excellent | 3-4<br>Good | 5-6<br>Average | 7-8<br>Poor | 9-10<br>Very Poor | Mean |
|-----------------------|------------------|-------------|----------------|-------------|-------------------|------|
| NW-3 No. of Manholes  | 19               | 45          | 39             | 4           | 0                 | 4.2  |
| NE-4 No. of Manholes  | 16               | 48          | 37             | 31          | 9                 | 5.1  |
| Total No. of Manholes | 35               | 93          | 76             | 35          | 9                 | 4.7  |

|                    | Manhole Assessments |          | 2020 Flow Metering |
|--------------------|---------------------|----------|--------------------|
|                    | Low End             | High End | Average            |
| I/I Estimate (gpm) | 413                 | 1,214    | 745                |
| I/I Estimate (MGD) | 0.6                 | 1.7      | 1.1                |



Red – Very Poor  
Green – Excellent

## Defects From Precast and Brick Manholes Can Lead to Future Roadway Defects



**Cracking in Precast Chimney (smh1924)**



**Surface Cracking and Depression (smh6603)**



**Wooden Shim Used for Manhole Adjustment (smh2141)**



**Missing Brick and Mortar in Brick Chimney and Cone (smh2349)**

## Additional Photos From City Structures Document Need for Rehabilitation or Replacement



Missing Bricks and Mortar (smh3265)



Broken Chimney (smh2424)



Shim Used for Manhole Adjustment (smh2393)



Pavement Cracking/Cover Gasket (smh2508)

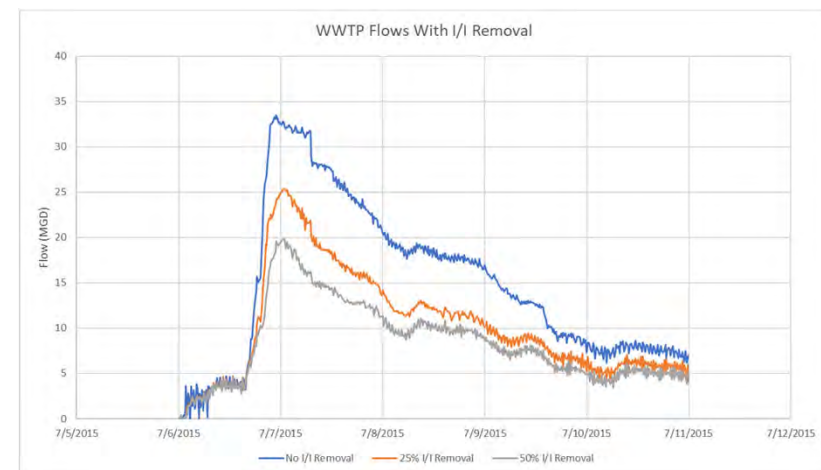
## Annual Manhole Rehabilitation Program Adds Another Angle to Attack I/I

| Year                     | 2010      | 2011      | 2012      | 2013      | 2014      | 2015      | 2016      | Total       |
|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|
| Manholes Included        | 92        | 123       | 175       | 203       | 177       | 111       | 85        | 801         |
| Construction Cost        | \$255,000 | \$430,000 | \$455,000 | \$321,000 | \$263,000 | \$145,000 | \$175,000 | \$2,045,000 |
| Average Cost per Manhole | \$2,800   | \$3,500   | \$2,600   | \$1,600   | \$1,500   | \$1,300   | \$2,100   | \$2,600     |

**Tip:** Budget a higher cost per manhole at the start of a rehabilitation program

**Note:** Design and Construction Costs ~\$45,000 each

|                | Fond du Lac | Wausau |
|----------------|-------------|--------|
| Average Flow   | 9.8         | 5.4    |
| Peak Hour Flow | 50.0        | 22.0   |
| Manholes       | 4,100       | 5,000  |



## Smoke Testing Effort Documented 96 Defects in Study Area

**Sanitary Smoke Testing**  
**City of Wausau**

Incident ID  Incident Date  Technician   
 Basin ID  Incident Time

Set Up Number  Plug 1 Loc  Plug 3 Loc  Plug 5 Loc   
 Smoker Location  Plug 2 Loc  Plug 4 Loc  Plug 6 Loc

Incident Location

Incident Category  Inflow Potential   
 Estimated Severity  Infiltration Potential

Observations

Additional Investigation Recommended? ☐ Recommended Additional Investigation   
 Recommended Repair

Area Photo   
 Close Up Photo

| Defect Location          | No. of Incidents |
|--------------------------|------------------|
| Manhole Defects          | 74               |
| Piping Defects           | 12               |
| Private Property Defects | 10               |
| <b>Total</b>             | <b>96</b>        |

**Recommendation: Notify property owners where private property defects were noted**

## **Smoke Testing on Sherman Street Confirms Sanitary Access Hatches in Storm Sewers Should be Addressed**



**Smoke from Access Hatch Seals in Storm Sewer on 4th Ave. and 6th Ave.**

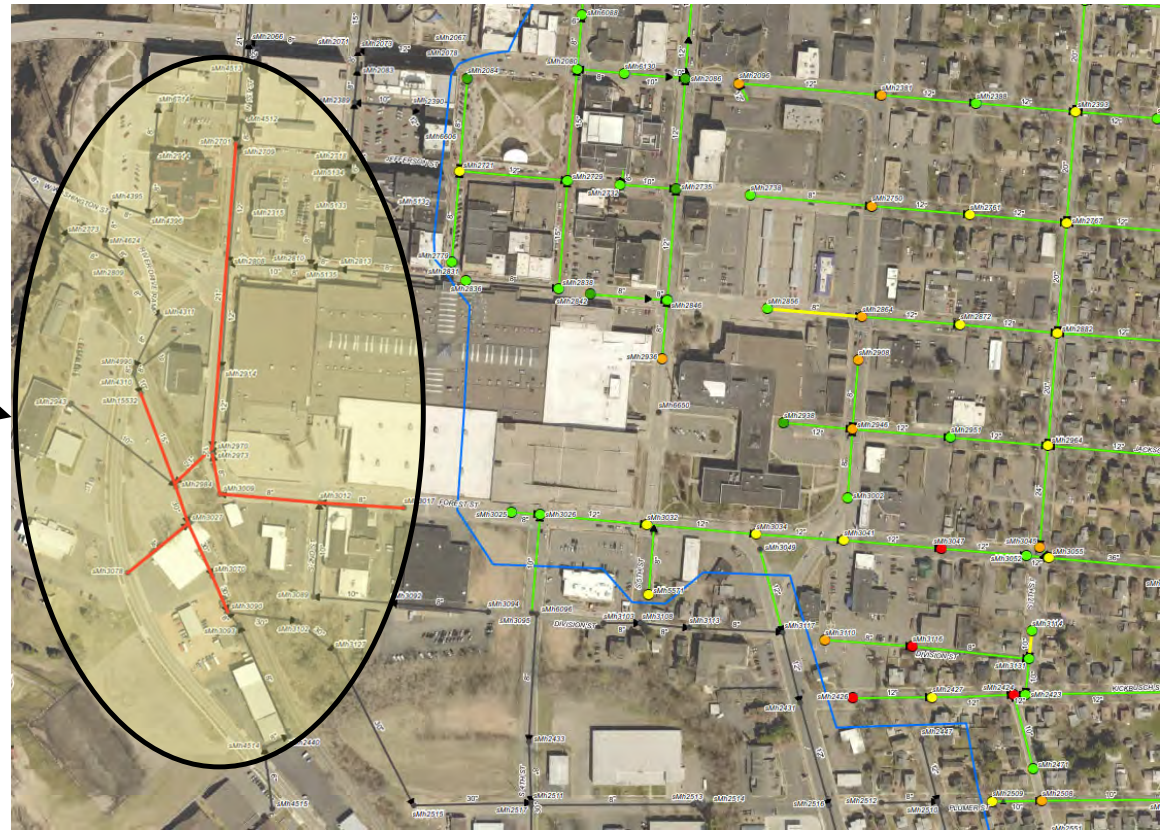


**First Street Access Hatches Assessed in 2020 Noted Defects**

## First Street Sewer Area Shows Cross Connections Between Storm and Sanitary Sewers

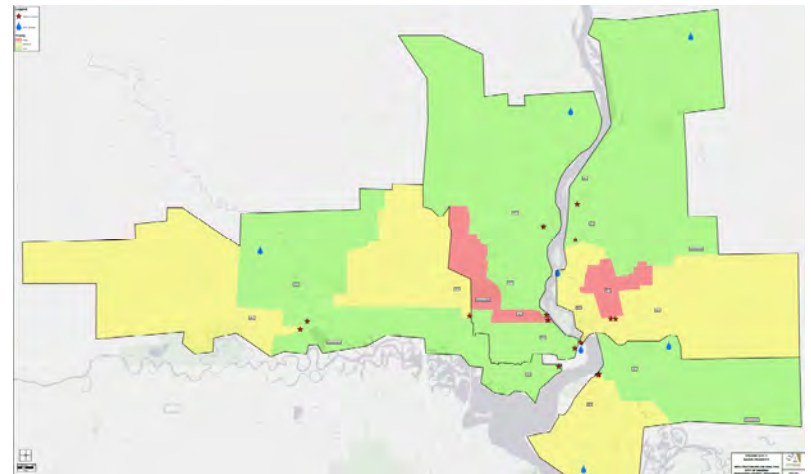


Smoke Exited Several Storm Covers in the Area



## Prioritized Recommendations Provide Solutions to Address Defects Noted Throughout the Study

- Televising and address areas where cross connections are identified
- Implement annual manhole rehabilitation program
- Conduct manhole assessments and/or smoke testing in additional areas
- Eliminate use of wooden shims in lieu of adjusting rings
- Notify property owners where private defects were noted
- Spot check other basins for brick manholes



# Questions



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## **CONTRACT FOR TREATMENT OF RAW SEWAGE**

WHEREAS, the City of Schofield (hereinafter "Schofield") is located to the south of the corporate limits of the City of Wausau (hereinafter ("Wausau")) and operates a system of sewers for the collection of sanitary sewage; and

WHEREAS, Schofield has no sewage treatment plant, and Wausau has heretofore treated Schofield's raw sewage under a contract both parties voluntarily entered into; and

WHEREAS, Wausau has by appropriate legislative action authorized Wausau Water Works (hereinafter "Utility") to manage the affairs of such Utility, including authorizing the Utility to enter into a contract to treat sewage from Schofield; and

WHEREAS, this agreement is a negotiated contract between the parties, and may be superseded by determinations of the Public Service Commission of the State of Wisconsin, and/or other public agencies that claim jurisdiction to determine sewerage rates.

NOW, THEREFORE, the Utility and Schofield do hereby agree as follows:

1. This agreement shall be for a term of five (5) years, commencing January 1, 2017 and ending December 31, 2021. The terms and conditions of this contract may extend beyond the stated time frame while a renewed contract is negotiated. Sewage rates shall be in effect per paragraph 13 of this contract.

2. Definitions:

Extension – a sewer main or interceptor main generally laid in streets;  
and

Hookup – the lateral pipe between the user's premises and an extension.

3. Schofield shall operate and maintain, at its own expense:

- A. A pumping station to deliver all of the Schofield sewage to Wausau, at a maximum discharge ratio of 960 gallons per minute when discharging at elevation 1201.00 feet above sea level (City of Wausau datum). The maximum rate of discharge shall not be increased without prior written consent of the Utility;
- B. A metering station at or near the pumping station. The meter shall be of a type adapted to the metering of raw sewage under pressure, and shall totalize and continuously record the flow.
- C. A 10-inch cast iron pressure sewer main between the pumping station located near the present Intercity State Bank on Grand Avenue and a manhole at the intersection of Emerson Street and Eau Claire Boulevard, in Wausau.

The utility shall, at all times, have the right to examine the equipment, determine its accuracy and review all charts and meter readings.

4. Schofield shall pay all costs and expenses associated with the delivery of its sewage to Wausau, and be liable for all damages to itself, Wausau or others arising out of such delivery, where Schofield is responsible and/or liable for those damages or a portion of those damages.

5. The capacity of the Wausau Wastewater Treatment Facility ("WWTF") is limited. It is entirely owned by the City of Wausau. So that the citizens of the City of Wausau are not required to unduly expand the capacity of the Wausau WWTF in the future, no extension and/or expansion of the Schofield Sewage collection system shall occur without the prior written approval of the Wausau Water Works and such proposed extension/expansion complies with the current Facilities Plan. Schofield shall submit to Wausau plans for expansion of the Schofield sewage collections system prior to submitting for DNR approval.

6. Schofield shall prepare a complete scale map of its sewage collection system, including thereon interceptor and collector mains. A reproducible copy of this map will be made available to the Wausau Water Works. On an annual basis the map shall be updated to reflect any changes and Wausau shall receive the updated copy. If there are no changes, Schofield will note such and the latest map on file shall be maintained.

7. All domestic sewage Schofield delivers to the Utility shall be reasonably free of clear waters, defined as including but not limited to storm water, diffused surface water, air conditioning discharge water and groundwater. All sewage is to be free from materials which may tend to foul or clog mains or laterals, or might reasonably be expected to damage the building or equipment constituting the Wausau WWTF. The provisions of Sec. 13.62.030 Wausau Municipal Code and any subsequent amendments to that section, are incorporated herein and made apart hereof. Discharges prohibited thereunder shall not be delivered to the Wausau system by Schofield. Any violation of the Sec. 13.62.030 and any amendments thereto shall immediately cease and be reported to the Wausau Wastewater Superintendent. Section 13.62.040 and any amendments thereto shall apply, and Schofield agrees to be governed by its provisions.

Schofield agrees to be responsible for and accomplish such work as necessary within its sewer system to comply with said ordinance and with the Wisconsin Pollutant Discharge Elimination System Permit No. WI-0025739 (hereinafter "Permit") issued to Wausau. Wausau may monitor or test Schofield sewage, upon reasonable notice, within the Schofield system.

8. The Utility reserves the right to order pretreatment of industrial waste. If, upon monitoring the discharge of such industry, it is determined that the standards of Sec. 13.62.030, and any amendments thereto, or the permit, are not being met, Schofield will be advised in writing by the Utility of the name of any industry not in compliance. Schofield shall immediately cause such pretreatment to be made to industrial waste, as required by Sec. 13.62.040 and any amendments thereto, prior to continued discharge of such wastes into the Schofield system.

All costs of such monitoring, including but not limited to analysis of the sewage, shall be charged to the users, and in the event such billing remains unpaid for sixty days, the Utility shall bill Schofield, who shall then pay such bill in the regular course of business.

The industry shall have reasonable time, not to exceed sixty days after written notice, to cause all wastes to be pretreated to meet the waste standards and requirements prescribed in said Permit or order, except for prohibited wastes which are toxic, or which may cause public health concerns, or property damage, or may impair treatability, and in these cases, the discharge shall cease immediately. If the industry or Schofield provides proof that compliance with waste standards requires machinery, equipment, supplies, chemicals, construction or other related items which cannot be completed or installed within such sixty day period, the Utility and Schofield shall meet to consider what course of action is proper under all of the circumstances. However, the Utility shall have final decision making authority regarding these actions.

If the industry does not comply with the requirements of pretreatment within the time frame above described, and/or continued to violate Sec. 13.62.030 and any amendments thereto the industry is subject to enforcement provisions as identified under Sewer Use Ordinance. The City of Schofield shall enforce all requirements of the Sewer Use Ordinance and shall comply with the April 11, 1985 Agreement. On April 11, 1985 Schofield and Wausau entered into an "Agreement for Management of Schofield's Pretreatment Program" which further defines industrial discharge requirements for Schofield industrial users. For reference purposes the April 11, 1985 agreement is embodied within this agreement and is attached under "Exhibit A."

9. Schofield will immediately report, in writing, to Wausau any proposed new or changed industrial and/or commercial user that meets or may meet any of the following criteria:

- Increases by ten percent or more the volume of wastewater received from Schofield.
- High strength wastes or potential toxic wastes.
- Wastewater originating from an industrial/commercial user required to comply with Federal and State pretreatment requirements.

With regard to the reportable users as noted above, Wausau reserves the right to approve or disapprove such connections to Schofield's sewage collection system or require the disconnection of such users. Failure of Schofield to report such connections shall result in a fifty dollar (\$50) per day penalty. The penalty shall also apply to any user located outside the Wausau Wastewater Treatment Plant 208 Sewer Service Area boundary that connects to the Schofield sewage collection system. This penalty shall not apply if Schofield is ordered by the State of Wisconsin to accept sewage from outside the 208 Sewer Service Area.

Schofield shall have the right to extend sewer service to any area petitioned voluntarily for annexation by the owners and electors of the area and annexed by Schofield provided the area is within the 208 Sewer Service Area or said boundary as amended. (Schofield will still need to comply with Paragraph 5 of this agreement and other conditions regarding industrial/commercial conditions.) Also, if Wausau is required by the DNR to perform special studies or an industrial survey to comply either with Federal Pretreatment regulations or toxic reduction assessments to meet new discharge requirements, Schofield may be assessed directly for such activity over and above the charges for sewer service. This special assessment will generally relate to the number of industrial users in each community. Schofield will be advised in writing in advance of these special studies and possible cost allocation.

In addition, Schofield will maintain a complete list of all new or changed industrial/commercial users connected to Schofield's sewer collection system. A copy of this list reflecting the current status of Schofield's industrial/commercial users will be forwarded to the Utility annually on or about December 31. This requirement is part of the Federal and State mandate regarding industrial pretreatment regulation. Schofield will further assist Wausau with management of the pretreatment regulations by observing and reporting industrial users that may be required to comply with such regulation.

10. In the event the State of Wisconsin, at any time, issues any order to Wausau or Schofield requiring Schofield to accept sewage from outside its corporate limits and/or the 208 Sewer Service Area, Schofield shall join in an appeal from said order with Wausau, at Wausau's discretion, and Schofield shall provide counsel or co-counsel for prosecution of such appeal, and shall equally share the allowable court costs.

11. In the event any agency of any governmental unit having jurisdiction over sewage treatment, sewer extensions, installations or expansion of the collection or treatment system issues orders to Wausau, limiting or staying such matters, then Schofield shall upon notice by Utility be bound by the same order to its terms and conditions.

12. The revised sewage treatment rates noted in the following paragraph do not include capital costs of the common interceptor sewer conveying Schofield's and Wausau's wastewater from the southeast side of Wausau, including the river crossing and interceptor west of the river, to the plant. Each segment of this interceptor may have a different level of funding contribution such as the interceptor south of Sturgeon Eddy versus the river crossing. Schofield and Wausau shall enter into negotiations to determine final cost allocations per each project related to each common interceptor segment. As a means to settle cost sharing arrangements regarding project costs for the common interceptor, Schofield and Wausau may employ the services of a mutually agreed upon third party competent to make a professional cost allocation settlement. The fees for this third party opinion will be split 50/50.

13. Schofield shall pay the Wausau Water Works the cost of handling, treating, and disposing of its sewage pursuant to the latest rate or to any rate schedules established in the future. Wausau shall initiate a rate review/analysis as necessary to maintain the normal operation of the Wausau WWTF. Any rate changes following a review/analysis, including normal operating percentage increases, may be implemented, irrespective of any

formal rate study being undertaken. Schofield shall have the right to review all documentation supporting any proposed rate changes.

A copy of Wausau's annual audit will be available after June 30 of each year upon request. Wausau will provide Schofield at least 90 days written notice of the intent to adjust rates. A copy of the new rates and the methodology used to revise the rates will be submitted to Schofield prior to rate implementation.

(By reference, the most current rate study shall be available for review by Schofield and will be on file in the office of the Wausau WWTF.)

14. Wausau shall invoice Schofield within 10 days following each month for metered charges. Payment shall be due and payable within 30 days from date of invoice. A penalty of one percent per month will be charged for all payments sixty (60) days or more past due. (Disputes in billing are not subject to penalty assessment until both parties agree on the final billing.)

IN WITNESS WHEREOF, the preside of the Wausau Water Works and its secretary, and the City of Schofield by its mayor and clerk, have made and executed this contract for the said Wausau Water Works and the City of Schofield, pursuant to authority vested in them by the Utility and the Common Council, respectively.

Signed this \_\_\_\_\_ day of \_\_\_\_\_, 2018.

#### **WAUSAU WATER WORKS**

In Presence of:

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
President

\_\_\_\_\_  
Secretary

#### **CITY OF SCHOFIELD**

In Presence of:

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
Mayor

\_\_\_\_\_  
City Clerk

**Change Order No. 1**

Date of Issuance: 10/26/21  
Owner: City of Wausau  
Contractor: National Power Rodding Corp.  
Engineer: Clark Dietz, Inc.  
Project: Industrial Park Force Main Rehabilitation

Effective Date:  
Owner's Contract No.:  
Contractor's Project No.:  
Engineer's Project No.: W0400080  
Contract Name:

The Contract is modified as follows upon execution of this Change Order:

Description: National Power Rodding has requested an 8% contract price increase. This increase accounts for increased labor, fuel, travel, and administrative costs since the project was contracted in summer 2020.

Also, at the request of the contractor, the contract times will be extended. The project was delayed for over a year to secure railroad permits and access easements for the force main access structures project.

Attachments: Email from National Power Rodding requesting the price increase.

| CHANGE IN CONTRACT PRICE                                                                       | CHANGE IN CONTRACT TIMES<br><i>[note changes in Milestones if applicable]</i>                                                                           |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Original Contract Price:<br><br>\$ 329,800.00                                                  | Original Contract Times:<br>Substantial Completion: 9/11/20<br>Ready for Final Payment: 9/25/20<br>days or dates                                        |
| [Increase] [Decrease] from previously approved Change Orders No. ___ to No. ___:<br><br>\$ N/A | [Increase] [Decrease] from previously approved Change Orders No. ___ to No. ___:<br>Substantial Completion: N/A<br>Ready for Final Payment: N/A<br>days |
| Contract Price prior to this Change Order:<br><br>\$ 329,800.00                                | Contract Times prior to this Change Order:<br>Substantial Completion: 9/11/20<br>Ready for Final Payment: 9/25/20<br>days or dates                      |
| Increase of this Change Order:<br><br>\$ 26,384.00                                             | [Increase] [Decrease] of this Change Order:<br>Substantial Completion: 581 days<br>Ready for Final Payment: 581 days<br>days or dates                   |
| Contract Price incorporating this Change Order:<br><br>\$ 356,184.00                           | Contract Times with all approved Change Orders:<br>Substantial Completion: 4/15/22<br>Ready for Final Payment: 4/29/22<br>days or dates                 |

RECOMMENDED:  
By: Diane L. Thorne  
Engineer (if required)  
Title: Project Manager  
Date: October 26, 2021

ACCEPTED:  
By: \_\_\_\_\_  
Owner (Authorized Signature)  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

ACCEPTED:  
By: \_\_\_\_\_  
Contractor (Authorized Signature)  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

Approved by Funding Agency (if applicable)

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Title: \_\_\_\_\_

**From:** [Bill Kreidler](#)  
**To:** [Diane L. Thoune](#); [Rex Murphy \(rex@montaukservices.net\)](#); [Rex..APS](#)  
**Cc:** [Tonia S. Westphal](#); ["Dave.Erickson@ci.wausau.wi.us"](#); [Eric Lindman](#)  
**Subject:** RE: Industrial Park Force Main Rehab Project  
**Date:** Friday, July 23, 2021 1:25:55 PM  
**Attachments:** [image001.png](#)

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Diane,

National Power Rodding would like to request an increase in our contract price of 8%

The request for the increase is due to an increase in wage rates and benefits of \$2.45/hr (plus applicable payroll taxes and workers comp insurance) effective 6/1/2021. Increases in overhead of administrative and support salaries, real estate taxes, equipment, parts, and utilities. Additionally, increases in fuel costs from approximately \$2.65/gallon in late 2020 to the current price of \$3.48/gallon. The increase will also cover expenses associated with carrying a bond for the project, allocating crews for the project, and then re-assigning them based on project delays and the uncertainty of our work-load when the work is released. Travel and lodging costs have also increased significantly during the past year. Our completion date for the project is dependent on when final completion of the access structures is completed.

In summary, our increase is

| Description                                       | Bid<br>Unit Price | 8% increase   |
|---------------------------------------------------|-------------------|---------------|
| Clean Industrial Park Lift Station force main     | \$ 252,700.00     | \$ 272,916.00 |
| Televiser Industrial Park Lift Station force main | \$ 77,100.00      | \$ 83,268.00  |
|                                                   | \$ 329,800.00     | \$ 356,184.00 |

Thank you for considering our request and we would like to complete the work when it becomes available.

Please let me know if you need any additional information.

**William Kreidler**  
*President*



**NATIONAL POWER RODDING CORP.**  
2500 West Arthington Street  
Chicago IL 60612  
office: (312) 666-7292