



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, February 2, 2021.

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

**AGENDA**

1. Approve Minutes of January 12, 2020 Meeting.
2. Director's Report on Utility Operations
  - DWTF Update
  - Lead and Copper Rule Revisions
  - Well 3 Update
  - Wastewater on Track to Meet Permit Limits
  - Accepted Offer for Sewer Maintainer
  - WWTF Update
  - Interceptor Sewer Cleaning and Inspection Project
  - Sewer Repair at the Intersection of 1<sup>st</sup> Ave and Bridge Street
  - COVID Research Project
  - I&I Study Update
3. Discussion/Update on Proposed Solar Array for the New Water Treatment Facility.
4. Discussion and Possible Action on the Purchase of 1010 Bugbee Ave.
5. Presentation on Rain Barrels.

Adjourn.

*\*Next meeting scheduled for March 2, 2021.*

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THIS NOTICE POSTED AT CITY HALL AND EMAILED TO CITY PAGES AND DAILY HERALD: January 28, 2021 at 2:45 pm.

Due to the COVID-19 pandemic, this meeting is being held in person and via teleconference. Members of the media and the public may attend in person, subject to the social distancing rules of maintaining at least 6 feet apart from other individuals, or by calling 1-408-418-9388. The Access Code is 146 986 3419 and the password is gMRkJ6WJN66. Individuals appearing in person will either be seated in the Council Chambers or an overflow room, subject to the social distancing rules. Space available will be on a first come, first served basis. 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 at <https://tinyurl.com/wausaucitycouncil> on the City of Wausau's YouTube Channel [https://www.youtube.com/channel/UC-Nigpdco\\_i8sq5FbbJD\\_aw](https://www.youtube.com/channel/UC-Nigpdco_i8sq5FbbJD_aw) and live by cable TV, Channel 981. 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 January 12, 2021**

A meeting of the Wausau Water Works Commission was called to order at 10:30 a.m. in City Hall on January 12, 2021. In compliance with Wisconsin Statutes, this meeting was posted and receipted for by the Wausau Daily Herald on January 8, 2021.

Members present: President Rosenberg, Commissioners Robinson, Herbst, Force, Gehin.

Others present: Eric Lindman, Dave Erickson, Scott Boers, Nathan Miller.

#### **1) Approve Minutes of December 8, 2020 Meeting.**

Robinson moved to approve the minutes of the December 8, 2020 meeting. Seconded by Gehin. Motion to approve the minutes carried 5-0.

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

Gehin asked if we've heard anything on Well 3. Lindman advised that there are no updates. Updates will be provided at a future meeting.

Robinson asked about the PFAS sampling on the effluent. If those come back elevated will we do some biosolids sampling? Erickson responded that the DNR collected one sample but he hasn't heard back on it yet. Robinson asked if he knows what they sample for. Erickson said he does not know specifically but he does have the contact information that he could forward if he was interested. Robinson pointed out that if the effluent is elevated, more than likely the biosolids are also elevated. There could be some potential liability issues if it is land spread. He thinks we may want to look at that and evaluate if some pretreatment requirements might be imposed on certain industries if it is an industrial source. Erickson advised that in the past when they asked for voluntary testing we were reluctant to do that because there are a lot of unanswered questions and he doesn't know that they've made a lot of progress on that. Certainly at some point we should be evaluating our biosolids. After we get the results back on this grab sample of our effluent, it may be a good time to have that discussion. Lindman commented that we would bring the results back but will also rely on the DNR for direction.

Force noticed that we've been testing for Covid in the wastewater. In the report, DHS is asking to increase the frequency of that testing. Is there any action that takes place after these samples are taken or are they just collecting numbers? Erickson responded that from his understanding this is just a research study to see what the numbers indicate based on test results and the prevalence of Covid in our community. Force asked if there is a cost to us. Erickson advised the cost is minimal, DHS pays for the testing and shipping.

Force asked about the regulatory advisory on lead and copper. The statement that utilities are required to replace the utility side of a lead service line when the customer elects to replace the customer owned portion of the line. Will that have any financial implications? Lindman responded if we have a homeowner that decides to replace their side of the line and our side is still lead, we have to replace the utility side and that will have a financial impact to the utility. Especially if we get more grant money that could have a significant impact on the utility.

Force inquired on any new information on the solar study. Lindman advised he had just met with

Clark Dietz, they've done some surveying and we have another area we'd like them to survey. The proposal was written to evaluate for 40%, 60% and 90% of the power load. To get to 90% they felt we would need approximately 11-12 acres. Clark Dietz intends to bring an update and provide a short presentation at the February commission meeting.

Robinson asked about the EPA lead rules going from the 1<sup>st</sup> to the 5<sup>th</sup> liter sample. Is that to try to get away from the bias that was there from the fixtures and focus more on lead pipes? Historically it was always the 1<sup>st</sup> liter draw, is this to try to balance that out? Boers advised that's correct. They are trying to move to all lead service lines. In the past there were tiers set up including copper lines with lead solder and they're moving away from that. So the 5<sup>th</sup> liter sample will be to get to the lead in the piping.

**3) Discussion and Possible Action on the Private Lead Service Line Funding for 2021.**

Lindman advised this is an update on the lead service line funding. Boers has been in contact with the DNR and they are tentatively committing to the \$450,000.00 that was requested for 2021. He doesn't think we will see that funding until late spring. In order for us to spend that much money for this program, we will have to start getting notices out.

Boers said that the DNR did question our confidence level in getting the \$450,000.00 in funds rolled out. We will have to replace just over 100 services this year and that will be difficult with the staffing and the plumbers. We will need to shorten the timeframe for responses from residents.

Gehin asked if we've spent all of the money that was allocated over the last few years. Boers advised that we are very close with funding left for a handful of replacements. Some of that is earmarked for projects in the spring and we also have a couple leaks right now. That money will be expended.

Lindman stated that there are also some closeout documents for the 2017 funding that need to be submitted in February. Boers confirmed those need to be in by February 12<sup>th</sup>.

No action needed.

**4) Discussion and Possible Action on WAUter Savvy Decals for Utility Vehicles.**

Force explained that the WAUter Savvy program will be launched when the newsletter comes out this month. We will also start inserting some bill stuffers, flyers will be available in the lobby as well as a large graphic on the WAUter Savvy program. He and Boers discussed the possibility of putting a WAUter Savvy decal on the water utility vehicles. Boers couldn't find a specific policy for decals being placed on vehicles. He received a quote for 20 decals and it came to approximately \$470.00.

Motion by Force to approve placing decals on the water utility vehicles to promote more credibility for the WAUter Savvy program. Seconded by Robinson.

Motion carried 5-0.

**5) Discussion and Possible Action on Amendment of WMC Ch13 Related to Sewer Rates.**

Lindman stated, at the last meeting, that all of our sewer rates are physically written in to the Wausau Municipal Code under chapter 13. Staff is proposing to pull all of those rates out of the code and put them in a fee schedule. Currently every time the commission approves the rates there has to be a full ordinance amendment. To eliminate this, all sewer rates would be on the fee schedule and we wouldn't have to continually update the municipal code whenever the sewer rates were addressed. This would be similar to how the water rates are done.

Robinson asked if this would require a resolution to adopt the schedule. Miller advised as of right now, adding something to the fee schedule does require a resolution so Lindman has asked if we could make that an exception as well. Since the commission already has the authority granted by the council to set the rates, there will basically be another exception that when the sewer rate changes the fee schedule will just be updated without a resolution. We would have to add some of the ordinance changes to the amendment that's included in the agenda. If this is approved, it will move on to council for approval.

Robinson noticed a typo relative to the Water Works commission, where Water Works is one word vs. two. He also questions Operation, Maintenance and Replacement costs. Shouldn't that be Operations, Maintenance and Capital costs? Both in the existing and new language. Replacement is

only good for replacement and really we're looking at trying to recover our capital costs. He's wondering if we should change the word "replacement" with the word "capital".

Lindman advised we can certainly do that to make it all encompassing, we will definitely want to be clear that revenues cover all expenses.

Force asked under this proposed change, are we losing any opportunity for public input, review or notice? Lindman advised no, we had also discussed the establishment of a policy manual and how we establish procedures. We'll be talking about how sewer rates are reviewed and established in the next agenda item. We can talk about those details as far as a public hearing or public outreach and how the commission wants to move forward. Right now, the city council has delegated the authority to the commission. By statute, the commission was also established to manage the utility and to be able to make these decisions. He's really just trying to establish in detail what the commission's authority is so it's done in accordance with the Wausau municipal code and state statute.

Gehin just wanted to clarify that we aren't changing any rates, this is just creating a policy and how we manage it. Lindman advised that is correct. This is just how we would handle changes to sewer rates in the future.

Robinson asked if the fee schedule would be included but not part of the ordinance. Miller advised that the fee schedule would be available online or at the clerk's desk and that is referenced in this amendment.

Lindman added that he thinks the fee schedule is much simpler for the public to interpret rather than reading through the municipal code.

Herbst brought up the question as to how she would know which wastewater user rate would be hers. Lindman advised it would be the meter size that's in your home and it is also established on past bills. Herbst also questioned the need for an irrigation meter. What would be the advantage to having a second meter? Lindman responded that if someone does a lot of irrigation at seasonal times, they are only charged for the water and will not be charged the sewer for that volume of water passing through the irrigation meter.

Force indicated that he thinks the general public ignores the measurements, etc. because they don't understand them. He is concerned that we put out information that is not understood by the users. Boers believes the bills were enhanced using gallons rather than metric units but he will check on that.

Motion by Robinson to approve the amendment of WMC Ch13 Related to Sewer Rates subject to the changes of Water Works being 2 words and changing the word "replacement" to "capital". Seconded by Herbst.

Motion carried 5-0.

#### **6) Discussion and Possible Action on Implementation of a Policy Manual Outline and Policy 301 – Review and Establishment of Sewer Rates.**

Lindman advised that in the packet he's outlined a general table of contents of what he envisions the policy manual to look like. This would be the first policy written under this manual. Staff would like to get a feel for how the commission is perceiving the outline or if there is something else they'd like to see as far as how things are formatted. Also on the policy itself, if there are any additions or edits.

Force asked where this would appear. Lindman advised it will be a manual on file and will contain procedures that we will follow, this will be an internal document.

Robinson asked about the simplified rate adjustment. If it's below 3%, who approves, does this commission still approve? Lindman responded yes. Robinson asked for clarification if it's 3%, how often can that be done? Is it 3%, one time and if no rate increases have been made for 3 years would it be up to 9%? Lindman advised it is not the intent to make it cumulative and he will look at some language to clarify. The intent of the simplified rate increase is to be limited to 3% and no more than 3% in any one calendar year as approved by the commission.

Motion by Herbst to approve the implementation of a Policy Manual Outline and Policy 301 – Review and Establishment of Sewer Rates. Seconded by Gehin.

Lindman commented that this is a document that the commission can edit as needed.

Motion carried 5-0.

**7) Discussion and Possible Action Regarding Proposed Vergent Power Solutions Contract to Maintain Micro-turbines at Wastewater Plant.**

Erickson explained that the Micro-turbines burn the gas that is generated on site in the digesters to generate electricity. He believes these were purchased in 2012 along with a service contract for parts only for \$2,600.00 per quarter. That contract is coming to an end this month. There are some options but he would suggest going with a 10 year. He would hope to keep them running for another 10 years and not have to make a big capital investment to replace them. We can go with parts only or go with parts and labor but that would be more money. For a 10 year parts only we're looking at \$3,500.00 per quarter and a parts and labor for \$5,000.00 per quarter. Gehin asked how much these would cost to replace. Erickson would estimate hundreds of thousands of dollars.

Motion by Force to approve the 10 year parts only contract for \$3,500.00 per quarter. Seconded by Herbst.

Gehin questioned how much of a payback we are receiving by producing this power. Erickson advised he didn't have exact numbers but does know that these need to be running efficiently to pay for themselves and that's been a problem over the past number of months

Robinson asked if we'd be better off with parts and labor if we want to optimize peak performance. Are there service expectations associated with the labor portion? If we have a failure do we have a timeframe for which they should respond and how does that compare if we only have a parts only contract. Erickson believes that if we have parts and labor they would be more reluctant to come as they aren't being paid anything extra.

Gehin asked beside the parts, how much have we spent on labor? Erickson estimated \$3,000.00 a year. He could do some research and have those numbers if they'd like to see them. Gehin would support going forward with the 10 year parts only.

Motion carried 5-0.

Force stated that he and Robinson will have an agenda item regarding rain barrels at the next meeting.

**Adjourn.**

There being no further business to discuss, motion was made by Robinson to adjourn the meeting. Seconded by Gehin.



## **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 – January 2021

## **WATER DIVISION**

1. DWTF Update.
2. Attached in the packet is a “cheat sheet” of the revisions to the Lead & Copper Rule (LCR) for drinking water. The new rule was discussed at the January meeting but wanted to highlight again a couple of the major items staff will begin working on over the next several months which will be very impactful to the utility.
  - The LCR requires a lead Service line (LSL) Replacement Plan be prepared and a full LSL inventory to be completed in 3-years. Also included in the Plan will be public outreach and the mandatory annual notice to customers with LSL's. The inventory will take many hours of staff time to be accurate and maintained. We have begun this work periodically over the past year when replacing water meters but we have a lot of work to do over the next couple of years.
  - The LCR also requires us to sample 20% of elementary and child care facilities per year. The implications of this are currently not known, but could potentially be very significant. We are not clear as to how many fixtures would be sampled at each school or how this would be determined.
3. Well 3 update: We received an update on Well 3 from the EPA. This is one of the wells that is used as part of the USEPA Superfund site. The utility is proposing to remove this well from pumping water to the treatment facility. The well will still remain in operation but the water will be discharged to the river. Currently the water is pumped through air strippers to remove the VOC's and then is treated at the treatment facility. This well has some of our highest iron/manganese levels and it is the only well on the east side of the river. The proposal to the US EPA would be to continue to pump this well as required discharge the water over riprap for stripping and then flow to the river. GHD (City's environmental consultant hired to work with the USEPA on our behalf) had an update from the

USEPA:

1. CW-3 change in treatment. In order for EPA to approve discharge to the river, they will require submittal of information and documentation. Sheri will prepare a letter to make the information request. She said we could expect the letter in about 3 weeks.

## **WASTEWATER DIVISION**

1. The Wastewater Treatment Plant is on track to meet permit limits for January.
2. A candidate has accepted our offer for the Sewer Maintainer position and we will set a start date after the pre-employment process is completed. We have interviewed candidates for the Plant Mechanic position and are in the process of making an offer for that position. We will have filled all of our open positions when these candidates are on-board.
3. The Wastewater Plant upgrade project is proceeding rapidly and the most recent Donohue status report is attached. They have erected the precast panels for the two story solids building so the skyline has changed dramatically since the Donohue report.
4. The interceptor sewer cleaning and inspection project is proceeding on schedule. Northern Pipe has completed work in the vicinity of Imm Street, where we had the failure, and on Rosecrans Street, where we are planning street reconstruction. Initial review of the video suggests we may need to make repairs on Imm Street and Flieth Street from 3rd Avenue to 9th Avenue.
5. The Engineering Department coordinated a repair to the sewer at the intersection of 1st Avenue and Bridge Street. This is the location of a Sanitary Sewer Overflow that occurred last October. In following up and televising that line, we found that a fiber optic cable had been bored through the sewer main creating a partial obstruction.
6. We continue to work with the Wisconsin State lab of Hygiene on their COVID research project and have switched from 2 samples per week to 6 samples per week. A recent printout from their website is attached showing a graph of their results.
7. I&I Study Update: Strand is completing their report related to the I&I study and field results. They will be at the March meeting to present the results to the Commission and to answer any questions related to priorities of work.

## Wausau Drinking Water Treatment Facility

### Project Status

February 2, 2021

All grade level exterior masonry walls and concrete pours have been completed. Exterior split face block will be installed in spring, after the second story is complete. Miron continues to work on forming and pouring the floors for the second-floor area around the water treatment tanks, lab area, and filters. They are also working on interior stair ways, tank fillets and other small concrete pours throughout the interior.

Mechanical and electrical contractors are busy installing plumbing and conduit runs throughout the plant. The subcontractor installing underground piping is working on some of the piping that between the water plant and the 500,000 gallon storage tanks, but construction is slow due to frost and cold weather.

## Reference Guide for Public Water Systems Lead and Copper Rule Comparison

This table compares the major differences between the current Lead and Copper Rule (LCR) and the final Lead and Copper Rule revisions (LCRR). In general, requirements that are unchanged are not listed. For existing rule requirements visit: <https://www.epa.gov/dwreginfo/lead-and-copper-rule>. For more information on the new LCR visit: <https://www.epa.gov/ground-water-and-drinking-water/final-revisions-lead-and-copper-rule>.

| CURRENT LCR                                                                                                                                                                                                                                                                                                                                                                                                      | FINAL REVISED LCRR                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Action Level (AL) and Trigger Level (TL)</b>                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"> <li>90<sup>th</sup> percentile (P90) level above lead AL of 15 µg/L or copper AL of 1.3 mg/L requires additional actions.</li> </ul>                                                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>90<sup>th</sup> percentile (P90) level above lead AL of 15 µg/L or copper AL of 1.3 mg/L requires more actions than the previous rule.</li> <li>Defines lead trigger level (TL) of <math>10 &lt; P90 \leq 15</math> µg/L that triggers additional planning, monitoring, and treatment requirements.</li> </ul>                                                                                                              |
| <b>Lead and Copper Tap Monitoring</b>                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Sample Site Selection</b> <ul style="list-style-type: none"> <li>Prioritizes collection of samples from sites with sources of lead in contact with drinking water.</li> <li>Highest priority given to sites served by copper pipes with lead solder installed after 1982 but before the state ban on lead pipes and/or LSLs.</li> <li>Systems must collect 50% of samples from LSLs, if available.</li> </ul> | <b>Sample Site Selection</b> <ul style="list-style-type: none"> <li>Changes priorities for collection of samples with a greater focus on LSLs.</li> <li>Prioritizes collecting samples from sites served by LSLs –all samples must be collected from sites served by LSLs, if available.</li> <li>No distinction in prioritization of copper pipes with lead solder by installation date.</li> <li>Improved tap sample site selection tiering criteria.</li> </ul> |
| <b>Collection Procedure</b> <ul style="list-style-type: none"> <li>Requires collection of the first liter sample after water has sat stagnant for a minimum of 6 hours.</li> </ul>                                                                                                                                                                                                                               | <b>Collection Procedure</b> <ul style="list-style-type: none"> <li>Requires collection of the fifth-liter sample in homes with LSLs after water has sat stagnant for a minimum of 6 hours and maintains first-liter sampling protocol in homes without LSLs.</li> <li>Adds requirement that samples must be collected in wide-mouth bottles.</li> </ul>                                                                                                            |

| CURRENT LCR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FINAL REVISED LCRR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <ul style="list-style-type: none"> <li>Prohibits sampling instructions that include recommendations for aerator cleaning/removal and pre-stagnation flushing prior to sample collection.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p><b>Monitoring Frequency</b></p> <ul style="list-style-type: none"> <li>Samples are analyzed for both lead and copper.</li> <li>Systems must collect standard number of samples, based on population; semi-annually unless they qualify for reduced monitoring.</li> <li>Systems can qualify for annual or triennial monitoring at reduced number of sites. Schedule based on number of consecutive years meeting the following criteria:               <ul style="list-style-type: none"> <li>Serves <math>\leq 50,000</math> people and <math>\leq</math> lead &amp; copper ALs.</li> <li>Serves any population size, meets state-specified optimal water quality parameters (OWQPs), and <math>\leq</math> lead AL.</li> </ul> </li> <li>Triennial monitoring also applies to any system with lead and copper 90<sup>th</sup> percentile levels <math>\leq 0.005</math> mg/L and <math>\leq 0.65</math> mg/L, respectively, for 2 consecutive 6-month monitoring periods.</li> <li>9-year monitoring waiver available to systems serving <math>\leq 3,300</math>.</li> </ul> | <p><b>Monitoring Frequency</b></p> <ul style="list-style-type: none"> <li>Some samples may be analyzed for only lead when lead monitoring is conducted more frequently than copper.</li> <li>Copper follows the same criteria as the current rule.</li> <li>Lead monitoring schedule is based on P90 level for all systems as follows:               <ul style="list-style-type: none"> <li><b>P90 &gt; 15 <math>\mu\text{g/L}</math>:</b> Semi-annually at the standard number of sites.</li> <li><b>P90 &gt; 10 to 15 <math>\mu\text{g/L}</math>:</b> Annually at the standard number of sites.</li> <li><b>P90 <math>\leq 10 \mu\text{g/L}</math>:</b> <ul style="list-style-type: none"> <li>Annually at the standard number of sites and triennially at reduced number of sites using same criteria as previous rule except copper 90<sup>th</sup> percentile level is not considered.</li> <li>Every 9 years based on current rule requirements for a 9-year monitoring waiver.</li> </ul> </li> </ul> </li> </ul> |

| CURRENT LCR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FINAL REVISED LCRR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| <i>Corrosion Control Treatment (CCT) and Water Quality Parameters (WQPs)</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>CCT</b> <ul style="list-style-type: none"> <li>• Systems serving &gt; 50,000 people were required to install treatment by January 1, 1997 with limited exception.</li> <li>• Systems serving ≤ 50,000 that exceed lead and/or copper AL are subject to CCT requirements (<i>e.g.</i>, CCT recommendation, study if required by primacy agency, CCT installation). They can discontinue CCT steps if no longer exceed both ALs for two consecutive 6-month monitoring periods.</li> <li>• Systems must operate CCT to meet any primacy agency-designated OWQPs that define optimal CCT.</li> <li>• There is no requirement for systems to re-optimize.</li> </ul> | <b>CCT</b> <ul style="list-style-type: none"> <li>• Specifies CCT requirements for systems with <math>10 &lt; \text{P90 level} \leq 15 \mu\text{g/L}</math>: <ul style="list-style-type: none"> <li>○ <b>No CCT:</b> must conduct a CCT study if required by primacy agency.</li> <li>○ <b>With CCT:</b> must follow the steps for re-optimizing CCT, as specified in the rule.</li> </ul> </li> <li>• Systems with P90 level &gt; 15 <math>\mu\text{g/L}</math>: <ul style="list-style-type: none"> <li>○ <b>No CCT:</b> must complete CCT installation regardless of their subsequent P90 levels.</li> <li>○ <b>With CCT:</b> must re-optimize CCT.</li> </ul> </li> <li>○ CWSs serving ≤ 10,000 people and non-transient water systems (NTNCWSs) can select an option other than CCT to address lead. <b>See Small System Flexibility.</b></li> </ul> |
| <b>CCT Options:</b> Includes alkalinity and pH adjustment, calcium hardness adjustment, and phosphate or silicate-based corrosion inhibitor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>CCT Options:</b> Removes calcium hardness as an option and specifies any phosphate inhibitor must be orthophosphate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Regulated WQPs:</b> <ul style="list-style-type: none"> <li>• <b>No CCT:</b> pH, alkalinity, calcium, conductivity, temperature, orthophosphate (if phosphate-based inhibitor is used), silica (if silica-based inhibitor is used).</li> <li>• <b>With CCT:</b> pH, alkalinity, and based on type of CCT either orthophosphate, silica, or calcium.</li> </ul>                                                                                                                                                                                                                                                                                                    | <b>Regulated WQPs:</b> <ul style="list-style-type: none"> <li>• Eliminates WQPs related to calcium hardness (<i>i.e.</i>, calcium, conductivity, and temperature).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>WQP Monitoring</b> <ul style="list-style-type: none"> <li>• Systems serving ≥ 50,000 people must conduct regular WQP monitoring at entry points and within the distribution system.</li> <li>• Systems serving ≤ 50,000 people conduct monitoring only in those periods &gt; lead or copper AL.</li> </ul>                                                                                                                                                                                                                                                                                                                                                       | <b>WQP Monitoring</b> <ul style="list-style-type: none"> <li>• Systems serving ≥ 50,000 people must conduct regular WQP monitoring at entry points and within the distribution system.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| CURRENT LCR                                                                                                                                                                                                                                                          | FINAL REVISED LCRR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Contains provisions to sample at reduced number of sites in distribution system less frequency for all systems meeting their OWQPs.</li> </ul>                                                                                | <ul style="list-style-type: none"> <li>Systems serving <math>\leq 50,000</math> people must continue WQP monitoring until they no longer <math>&gt;</math> lead and/or copper AL for two consecutive 6-month monitoring periods.</li> <li>To qualify for reduced WQP distribution monitoring, P90 must be <math>\leq 10 \mu\text{g/L}</math> and the system must meet its OWQPs.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Sanitary Survey Review:</b> <ul style="list-style-type: none"> <li>Treatment must be reviewed during sanitary surveys; no specific requirement to assess CCT or WQPs.</li> </ul>                                                                                  | <b>Sanitary Survey Review:</b> <ul style="list-style-type: none"> <li>CCT and WQP data must be reviewed during sanitary surveys against most recent CCT guidance issued by EPA.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Find-and-Fix:</b><br>No required follow-up samples or additional actions if an individual sample exceeds $15 \mu\text{g/L}$ .                                                                                                                                     | <b>Find-and-Fix:</b><br>If individual tap samples $> 15 \mu\text{g/L}$ . <ul style="list-style-type: none"> <li>Find-and-fix steps:               <ul style="list-style-type: none"> <li>Collect tap sample at the same tap sample site within 30 days.</li> <li>For LSL, collect any liter or sample volume.</li> <li>If LSL is not present, collect 1 liter first draw after stagnation.</li> <li>For systems with CCT                   <ul style="list-style-type: none"> <li>Conduct WQP monitoring at or near the site <math>&gt; 15 \mu\text{g/L}</math>.</li> <li>Perform needed corrective action.</li> <li>Document customer refusal or nonresponse after 2 attempts.</li> <li>Provide information to local public health officials.</li> </ul> </li> </ul> </li> </ul> |
| <i>LSL Inventory and LSLR Plan</i>                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Initial LSL Program Activities:</b> <ul style="list-style-type: none"> <li>Systems were required to complete a materials evaluation by the time of initial sampling. No requirement to update materials evaluation.</li> <li>No LSLR plan is required.</li> </ul> | <b>Initial LSL Program Activities:</b> <ul style="list-style-type: none"> <li>All systems must develop an LSL inventory or demonstrate absence of LSLs within 3 years of final rule publication.</li> <li>LSL inventory must be updated annually or triennially, based on their tap sampling frequency.</li> <li>All systems with known or possible LSLs must develop an LSLR plan.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                    |

### LSLR:

- Systems with LSLs with P90 > 15 µg/L after CCT installation must annually replace  $\geq 7\%$  of number of LSLs in their distribution system when the lead action level is first exceeded.
- Systems must replace the LSL portion they own and offer to replace the private portion at the owner's expense.
- Full LSLR, partial LSLR, and LSLs with lead sample results  $\leq 15$  µg/L ("test-outs") count toward the 7% replacement rate.
- Systems can discontinue LSLR after 2 consecutive 6-month monitoring periods  $\leq$  lead AL.

### LSLR:

- Rule specifies replacement programs based on P90 level for CWSs serving > 3,300 people:
  - If P90 > 15 µg/L: Must fully replace 3% of LSLs per year based upon a 2 year rolling average (mandatory replacement) for at least 4 consecutive 6-month monitoring periods.
  - If P90 > 10 to 15 µg/L: Implement an LSLR program with replacement goals in consultation with the primacy agency for 2 consecutive 1-year monitoring periods.
- Small CWSs and NTNCWSs that select LSLR as their compliance option must complete LSLR within 15 years if P90 > 15 µg/L **See *Small System Flexibility*.**
- Annual LSLR rate is based on number of LSLs and galvanized requiring replacement when the system first exceeds the action level plus the current number of lead status unknown service lines.
- Only full LSLR (both customer-owned and system-owned portion) count toward mandatory rate or goal-based rate.
- All systems replace their portion of an LSL if notified by consumer of private side replacement within 45 days of notification of the private replacement. If the system cannot replace the system's portion within 45 days, it must notify the state and replace the system's portion within 180 days.
- Following each LSLR, systems must:
  - Provide pitcher filters/cartridges to each customer for 6 months after replacement. Provide pitcher filters/cartridges within 24 hours for full and partial LSLRs.
  - Collect a lead tap sample at locations served by replaced line within 3 to 6 months after replacement.
- Requires replacement of galvanized service lines that are or ever were downstream of an LSL.

| CURRENT LCR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | FINAL REVISED LCRR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>LSL-Related Outreach:</b></p> <ul style="list-style-type: none"> <li>• When water system plans to replace the portion it owns, it must offer to replace customer-owned portion at owner's expense.</li> <li>• If system replaces its portion only:             <ul style="list-style-type: none"> <li>○ Provide notification to affected residences within 45 days prior to replacement on possible elevated short-term lead levels and measures to minimize exposure.</li> <li>○ Include offer to collect lead tap sample within 72 hours of replacement.</li> <li>○ Provide test results within 3 business days after receiving results.</li> </ul> </li> </ul> | <p><b>LSL-Related Outreach:</b></p> <ul style="list-style-type: none"> <li>• Inform consumers annually that they are served by LSL or lead status unknown service line.</li> <li>• Systems subject to goal-based program must:             <ul style="list-style-type: none"> <li>○ Conduct targeted outreach that encourages consumers with LSLs to participate in the LSLR program.</li> <li>○ Conduct an additional outreach activity if they fail to meet their goal.</li> <li>○ Systems subject to mandatory LSLR include information on LSLR program in public education (PE) materials that are provided in response to P90 &gt; AL.</li> </ul> </li> </ul> |
| <b>Small System Flexibility</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>No provisions for systems to elect an alternative treatment approach but sets specific requirements for CCT and LSLR.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <p>Allows CWSs serving <math>\leq 10,000</math> people and all NTNCWSs with P90 &gt; 10 <math>\mu\text{g/L}</math> to select their approach to address lead with primacy agency approval:</p> <ul style="list-style-type: none"> <li>• Systems can choose CCT, LSLR, provision and maintenance of point-of-use devices; or replace all lead-bearing plumbing materials.</li> </ul>                                                                                                                                                                                                                                                                                 |

| CURRENT LCR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FINAL REVISED LCRR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• All CWSs must provide education material in the annual Consumer Confidence Report (CCR).</li> <li>• Systems with P90 &gt; AL must provide PE to customers about lead sources, health effects, measures to reduce lead exposure, and additional information sources.</li> <li>• Systems must provide lead consumer notice to individuals served at tested taps within 30 days of learning results.</li> <li>• Customers can contact the CWS to get PE materials translated in other languages.</li> </ul> | <ul style="list-style-type: none"> <li>• CWSs must provide updated health effects language in all PE materials and the CCR. <ul style="list-style-type: none"> <li>◦ Customers can contact the CWS to get PE materials translated in other languages.</li> </ul> </li> <li>• All CWSs are required to include information on how to access the LSL inventory and how to access the results of all tap sampling in the CCR.</li> <li>• Revises the mandatory health effects language to improve accuracy and clarity.</li> <li>• If P90 &gt; AL: <ul style="list-style-type: none"> <li>◦ Current PE requirements apply.</li> <li>◦ Systems must notify consumers of P90 &gt; AL within 24 hours.</li> </ul> </li> <li>• In addition, CWSs must: <ul style="list-style-type: none"> <li>◦ Deliver notice and educational materials to consumers during water-related work that could disturb LSLs.</li> <li>◦ Provide information to local and state health agencies.</li> <li>◦ Provide lead consumer notice to consumers whose individual tap sample is &gt; 15 µg/L as soon as practicable but no later than 3 days.</li> </ul> </li> </ul> <p><i>Also see LSL-Related Outreach section of table.</i></p> |
| <p>Systems on a <b>reduced</b> tap monitoring schedule must obtain prior primacy agency approval before changing their source or treatment.</p>                                                                                                                                                                                                                                                                                                                                                                                                   | <p>Systems on <b>any</b> tap monitoring schedule must obtain prior primacy agency approval before changing their source or treatment. These systems must also conduct tap monitoring biannually.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <ul style="list-style-type: none"> <li>• Periodic source water monitoring is required for systems with: <ul style="list-style-type: none"> <li>◦ Source water treatment; or</li> <li>◦ P90 &gt; AL and no source water treatment.</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                          | <ul style="list-style-type: none"> <li>• Primacy Agencies can waive continued source water monitoring if the: <ul style="list-style-type: none"> <li>◦ System has already conducted source water monitoring for a previous P90 &gt; AL;</li> <li>◦ primacy agency has determined that source water treatment is not required; <b>and</b></li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| CURRENT LCR                                                                                                                                                                                                                                                                                                                                                                                                                                     | FINAL REVISED LCRR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Does not include separate testing and education program for CWSs at schools and child care facilities.</li> <li>• Schools and child cares that are classified as NTNCWSs must sample for lead and copper.</li> </ul>                                                                                                                                                                                   | <ul style="list-style-type: none"> <li>○ System has not added any new water sources.</li> <li>• CWS must conduct sampling at 20% of elementary schools and 20% of child care facilities per year and conduct sampling at secondary schools on request for 1 testing cycle (5 years) and conduct sampling on request of all schools and child care facilities thereafter.</li> <li>• Sample results and PE must be provided to each sampled school/child care, primacy agency and local or state health department.</li> <li>• Excludes facilities built or replaced all plumbing after January 1, 2014.</li> </ul> |
| <p>Primacy Agencies must report information to EPA that includes but is not limited to:</p> <ul style="list-style-type: none"> <li>• All P90 levels for systems serving &gt; 3,300 people, and only levels &gt; 15 µg/L for smaller systems.</li> <li>• Systems that are required to initiate LSLR and the date replacement must begin.</li> <li>• Systems for which optimal corrosion control treatment (OCCT) has been designated.</li> </ul> | <p>Expands current requirements to include:</p> <ul style="list-style-type: none"> <li>• All P90 values for all system sizes.</li> <li>• The current number of LSLs and lead status unknown service lines for every water system.</li> <li>• OCCT status of all systems including primacy agency-specified OWQPs.</li> </ul>                                                                                                                                                                                                                                                                                       |

### Wastewater Treatment Facility Improvements Project – Engineer During Construction

City of Wausau, Wisconsin

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#### Engineer Activities This Period

- Construction administration services related to technical review of contractor shop drawings, responding to contract interpretation questions (RFIs), initiating requests for proposals (RFPs), attending weekly and monthly construction progress meetings, processing work change directives to the contract, and contractor monthly payment requests.
- Prepared and submitted Clean Water Fund disbursement request and provided CWF administration.
- Provided full time Resident Project Representative (RPR).
- Provided part time on-site observation of selected work by Becher-Hoppe.
- Prepared Change Order 3, which includes some of the value engineering items that were deferred from Change Order 2 for further refinements. Change Order 3 is being reviewed by the Contractor and we expect a fully signed copy soon.
- Working with Owner on color selections for equipment, buildings, and interior furnishings.
- Working with Owner on identifying the laboratory equipment that is to be procured under the laboratory equipment allowance.
- Working with Owner and furniture solutions company to finalize furniture colors and selections to be procured under the furniture allowance
- Prepared several Work Change Directives to address unforeseen work that needed to be expedited to allow the Contractor to maintain their construction scheduled progress.
- Weekly coordination calls have been established to facilitate contractor startup of the various systems that are being scheduled for near-future startup.
- The Engineer's application engineering staff are working on the various systems programming that will need to be completed as the new unit process systems are brought into operation.
- Developed into a weekly meeting are discussions pertaining to system commissioning and how all systems tie together to provide further detail to the construction schedule.

#### Engineer Near-Term Activities

- As the project proceeds, the engineer will continue to provide construction administration services including the technical review of shop drawings, responding to RFIs, preparing RFPs, attending weekly and monthly construction progress meetings, processing change orders, reviewing contractor payment requests, and providing full-time on-site resident engineering services.
- Finalize Change Order 3 and begin to prepare Change Order 4.

### Wastewater Treatment Facility Improvements Project – Engineer During Construction

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- Continue to coordinate temporary Server install and work thru connectivity protocol to the City's Network for initiation of Applications Engineering programming.

### Contractor Progress to Date

- The Notice to Proceed with Construction was issued to the Contractor on June 18, 2020 and established the final completion date as June 3, 2023.
- Construction on the improvements to the Wastewater Treatment Facility (WWTF) began on July 6, 2020.
- Structure 100 (Main Building):
  - Demolition continues on the existing clarifier tank in Gravity Thickener area of the structure.
  - Van Ert Electric continues preparation for connection of the new CT cabinets into Structure 100 (Main Building).
  - Van Ert Electric continues installing interior conduit from the new electrical room to where the new generators will be located in the existing Gravity Thickener Tank area.
  - US Oil installed the new diesel storage tank at the southwest exterior corner of Structure 100 (Main Building).
- Structure 120 (Administration Building):
  - Placement and installation of the roof have been started.
  - Installation of exterior split face block walls has been started.
  - Van Ert Electric and August Winters & Sons continue to work alongside steel stud and drywall crew in the administration area for plumbing and electrical in the interior walls.
  - August Winters & Sons has started to install HVAC duct work.
  - WPS provided temporary power to the structure on November 19.
  - Roofing subcontractor is on site and working on area above garage.
  - Mechanical, electrical, and plumbing work continues in the interior of Structure 120.
  - Installation of drywall continues.
  - Roof for the structure is in place and is awaiting final completion of the parapets and installation of HVAC roof top equipment.
  - Canopy work at the entryways into the structure has begun.
- Structure 350 (Primary Effluent Channel) and Structure 404 (Junction Structure):

### Wastewater Treatment Facility Improvements Project – Engineer During Construction

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- Primary effluent channel continues to be in operation for Structures 320, 330 and 340 (Primary Clarifiers 2, 3 & 4).
  - The final piped connection of Structure 310 (Primary Clarifier 1) is completed and is ready for the clarifier to be put back online if needed.
  - Lift gates at the Structure 404 (Junction Structure) 36-inch bypass and 48-inch future discharge to Structure 405 (Anoxic Selector Tank) were installed.
- Structure 500 (Secondary Splitter)
  - Concrete formwork continued throughout the month.
  - Structure footings, slab and walls were completed by the end of the month.
- Structure 540 (Secondary Clarifier 4):
  - Construction continued through December.
  - Miron filled the structure with liquid to prepare for the tank leakage testing.
- Structure 610 (Chemical Building):
  - Miron and August Winter & Sons prepped the facility to allow the chemical feed and storage tanks to be installed in Structure 610 (Chemical Building)
  - Miron placed the roof precast planks on the structure upon completion of the storage tank installation.
  - Miron is currently prepping to install the face brick on the structure starting in January 2021.
- Structure 700 (Digester Building) and Tunnel 910:
  - The openings have been cut and material removed for the connection of Structure 700 (Digester Building) to Tunnel 910.
  - Demolition work continues in the interior of Structure 730 (Primary Digester 3) as well as within Structure 700 (Digester Building).
- Structure 770 (Solids Building):
  - In floor piping has been placed in the lower level of Structure 770 (Solids Building) to accommodate the new trench drain.
  - Floor slabs have been poured for the northern half of the structure.
  - Backfilling has started below the future southern half of the structure so that the remaining slab on grade can be poured.
  - Van Ert Electric has been running conduit and placing grounding for the structure as well as temporary power and lighting for the lower level of Structure 770 (Solids Building).
  - August Winter & Sons continues to install floor drain and other miscellaneous piping as fill and concrete pours continue.

### Wastewater Treatment Facility Improvements Project – Engineer During Construction

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- **Structure 775 (PSD Thickener):**
  - Tank walls and launder have been completed for the structure with some initial backfilling around the structure being completed by Precision.
- **Tunnel 900:**
  - R-Industries continues demolition of piping in Tunnel and has completed removal of the existing 48-inch Primary Effluent pipe.
  - Van Ert Electric continues to run conduit along the ceiling of the tunnel to the planned duct bank to electrical manhole 1.
- **Yard Piping:**
  - Integrity Grading and Excavating continues with the placement of various yard piping connections including
    - Connections between Structures 770, 775 and 776 (Solids Building, PSD Thickener and Basin Drain Pump Station 2, respectively).
    - Work on the 36-inch mixed liquor line between Structures 500 and 540 (Secondary Splitter and Secondary Clarifier 4).
  - Van Ert Electric has completed the placement of electrical duct banks:
    - F from Structure 700 (Digester Building) to electrical manhole 1
    - J from Structure 200 (Grit Building) to electrical manhole 2,
    - A portion of S and T (connections from electrical manhole 3 to electrical manhole 1 and Structure 750, Gas Sphere)
  - Precision Grading has started backfilling
    - South central and eastern interior portions of Structure 770 (Solids Building)
    - North exterior side of Structure 770 (Solids Building)
    - Around Structure 540 (Secondary Clarifier 4)
- Construction progress photographs are located at the end of this progress report.

### Construction Schedule

- The Contractor has developed a detailed construction schedule that defines a timeline for the orderly completion of the work and a breakdown by structure of the work to be done in the various work areas. We continue to review the timeline and work tasks against the various constraints identified in the project manual to confirm that the contractor has adequately addressed them and accounted for shutdown time limits as their work proceeds.

## Project Status Report



### Wastewater Treatment Facility Improvements Project – Engineer During Construction

City of Wausau, Wisconsin

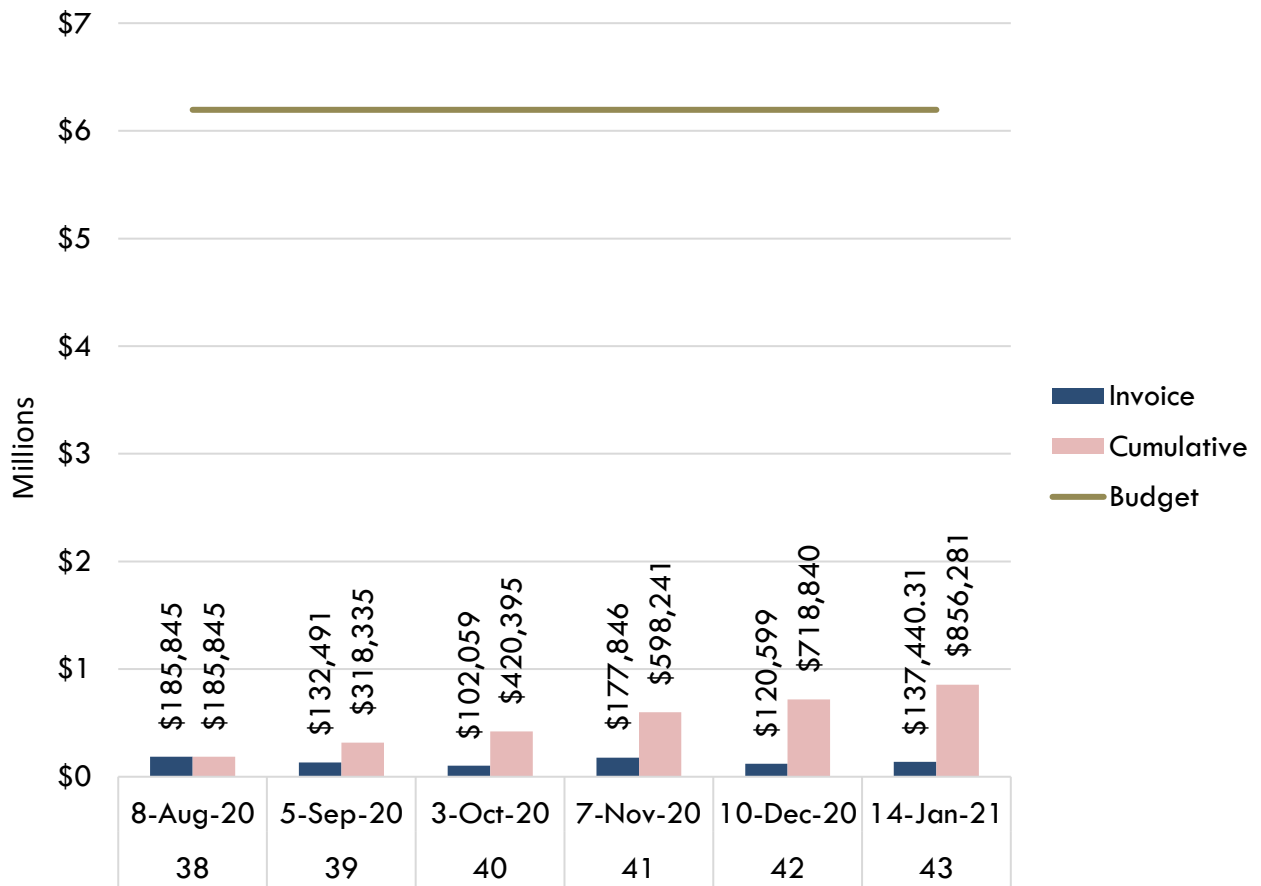
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### Project Related Budget Snapshot

#### Construction Engineering Budget



## Project Status Report



### Wastewater Treatment Facility Improvements Project – Engineer During Construction

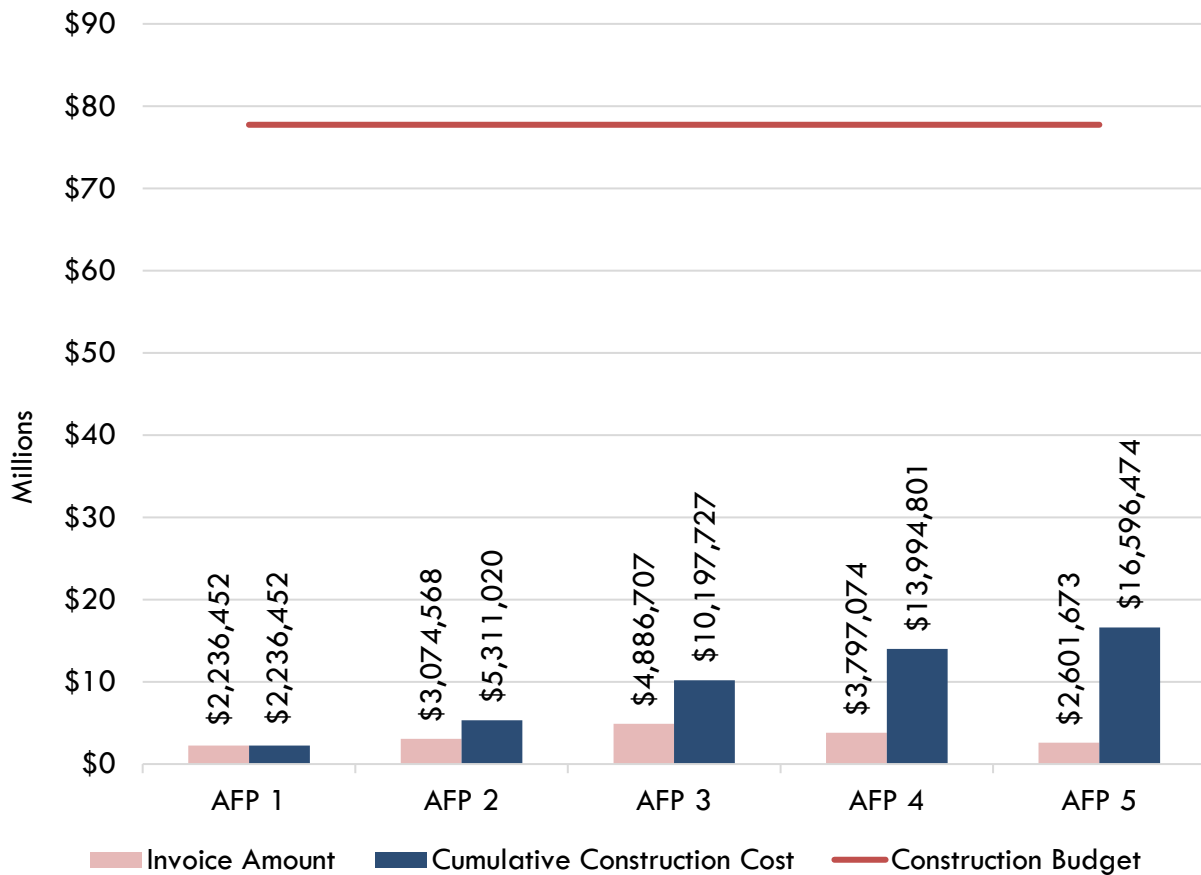
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#### Construction Budget: Pay Applications Approved by Engineer



## Project Status Report



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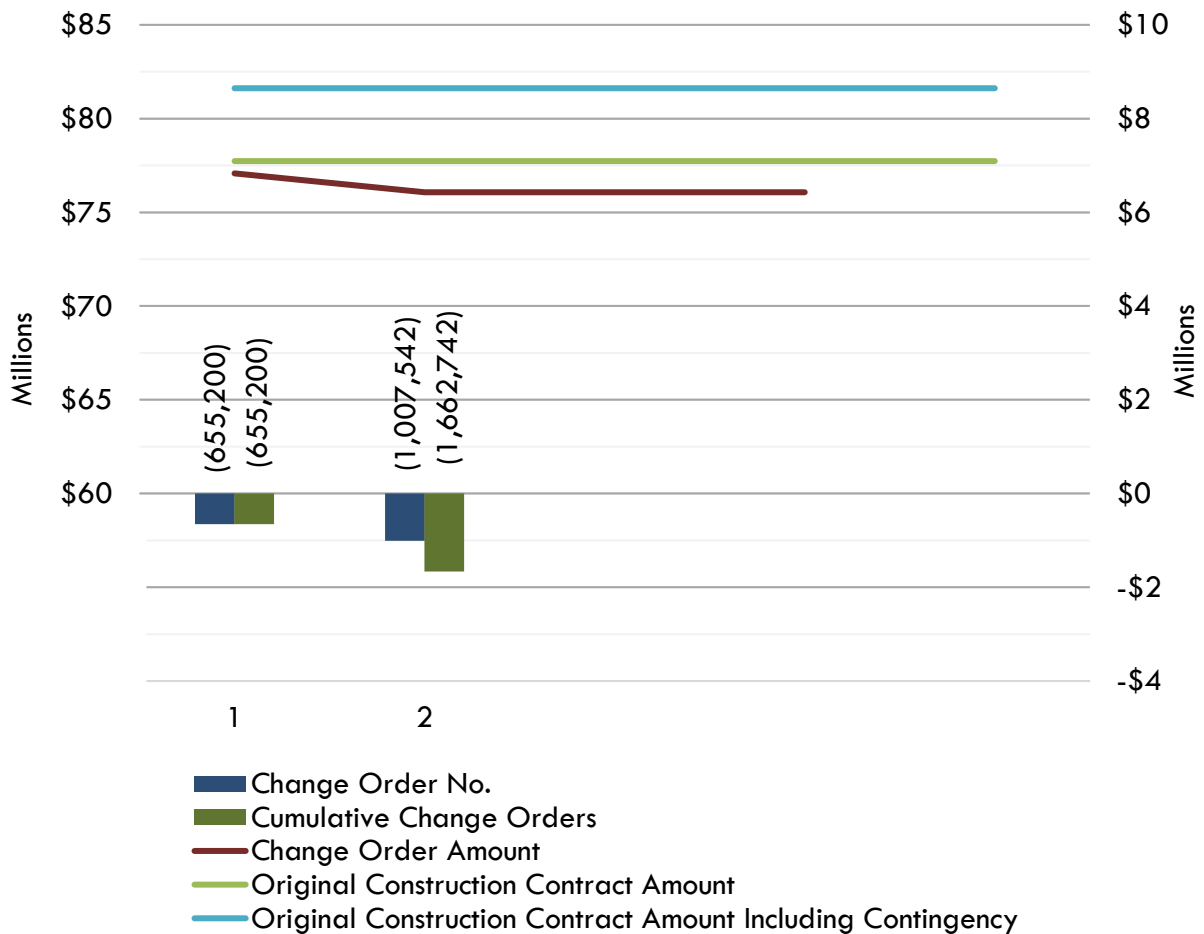
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#### Overall Project Budget



#### Budget Notes:

1. No budget issues at this time.

#### Remarks

1. None.

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### Construction Photographs



Structure 100 (Main Building): Demolition old clarifier tank in the Gravity Thickener area continues. A hole has been cut in the wall of the structure to allow easy access and removal of debris.



Placement of the membrane roof on top of Structure 120 (Administration Building).

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Exterior of Structure 120 (Administration Building) looking at the entryway between the garage and administration areas.



Final connection of Structure 350 (Primary Effluent Channel) to Structure 310 (Primary Clarifier 1).

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North end of Tunnel 900: 4-inch electrical conduit exiting the east tunnel wall to electrical manhole 1.



Integrity connecting the 36-inch Mixed Liquor line to Structure 540 (Secondary Clarifier 4).

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Openings in lower level of Structure 700 (Digester Building) provide access ground level and Tunnel 910.



Concrete demolition work in lower level of Structure 700 (Digester Building) to allow for the connection of a trench drain to floor drain system.

## Project Status Report



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Structural backfill of the area below the southern portion of Structure 770 (Solids Building) slab on grade.



Van Ert Electric placing grounding below the floor slab for the solids collection bins in the southeast corner of Structure 770 (Solids Building).

## Project Status Report



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August Winters and Sons placing floor drains below the southern slab for Structure 770 (Solids Building).



Miron and Wisconsin Rebar forming the Structure 500 (Secondary Splitter) tank walls.

## Project Status Report



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Forms removed from Structure 500 (Secondary Splitter) tank walls.



Structure 540 (Secondary Clarifier 4): slab and tank wall rebar and formwork in process.

## Project Status Report



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Walls of Structure 540 (Secondary Clarifier 4) being poured and formed in approximate 60 foot sections.



Miron beginning to fill Structure 540 (Secondary Clarifier 4) for a tank leakage test.



**TO:** Wausau Waterworks Commission

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

**DATE:** February 2, 2021

**SUBJECT:** 1010 Bugbee Ave – Possible purchase

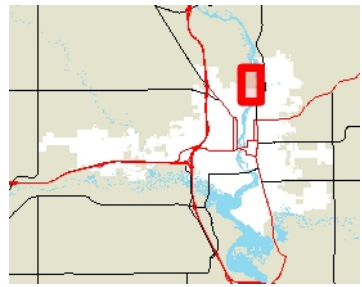
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The realtor for Mathy Construction approached staff with a proposal to purchase 1010 Bugbee Ave for \$125,000.

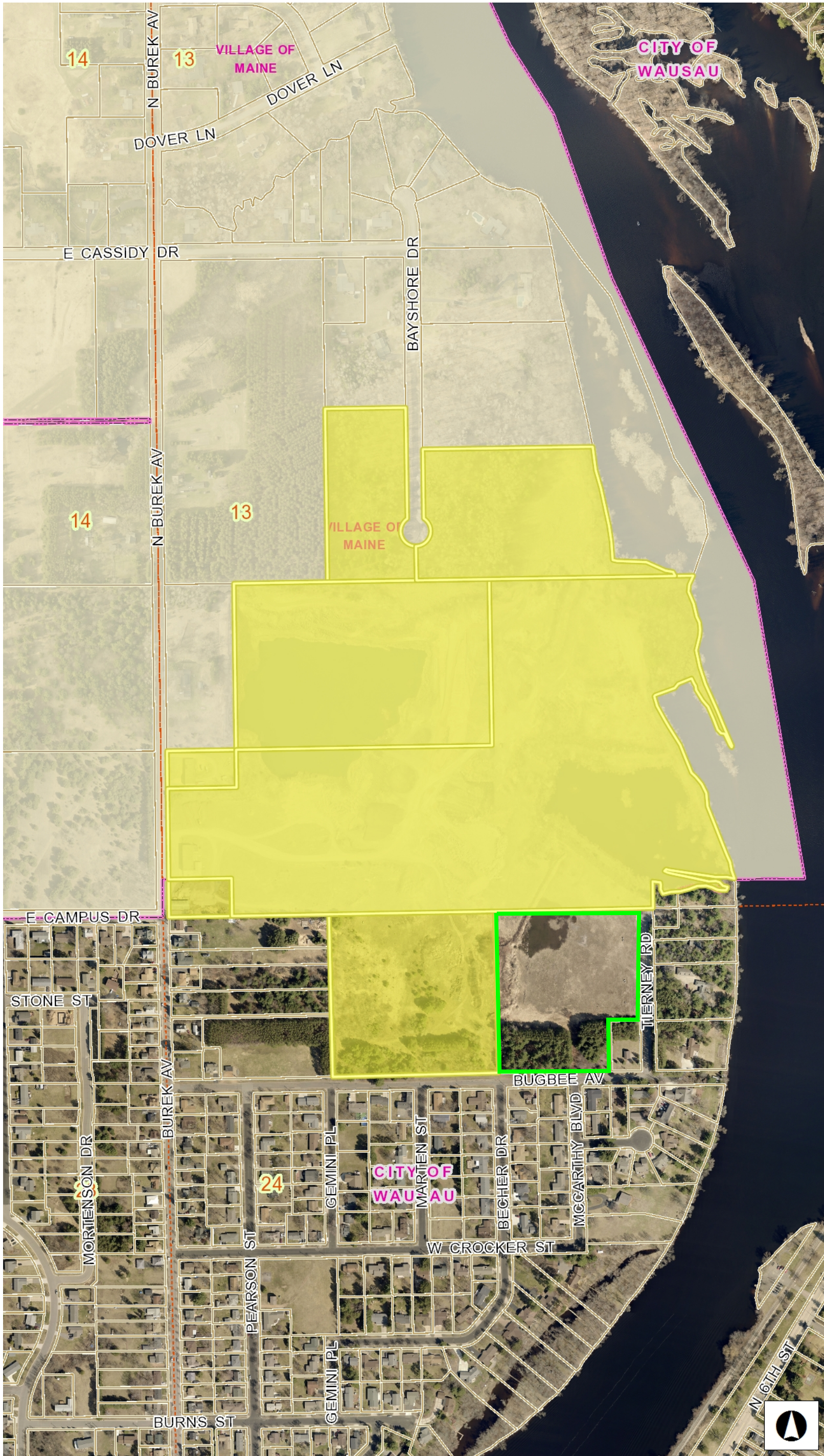
The utility purchased approximately 79-acres from Mathy Construction in 2017, 10-acres of the 79 acres is in the city of Wausau where the new DWTF is being constructed. Mathy Construction also owned an additional 7-acre parcel in the City of Wausau adjacent, east side of the 10-acre parcel. At the time this additional acreage was at a cost of \$300,000 and it was decided not to purchase this 7-acre parcel due to the additional cost.

The utility has been looking for the proper amount of acreage for the new solar array and having the solar array to the north side of the plant creates additional costs for running conductors, additional equipment, topography/site grading and construction of access drives. With the price of the property to the east now more reasonable it makes sense to consider purchasing this property and having the solar array much closer to the facility.

Staff would like to pursue completing due diligence on the potential purchase of this property and bring back a proposal for purchase at a future meeting for possible purchase approval. Due diligence would be a Phase I Environmental Assessment and test pits to determine soil conditions.



- Legend
- Parcel
  - Section Line/Number
  - Municipality



Proposed Property

Map Created: 1/27/2021

195.44 0 195.44 Feet



NAD\_1983\_HARN\_WISCRS\_Marathon\_County\_Feet

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THIS MAP IS NOT TO BE USED FOR NAVIGATION

Notes