



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, June 2, 2020.

AGENDA

1. Approve Minutes of May 5, 2020 Meeting.
2. Director's Report on Utility Operations
 - Annual Hydrant Flushing.
 - Meter Operations Resumed.
 - Hydro Corp Cross Connection Inspections.
 - Flooding at Water Plant.
 - Annual Clarifier Changeover.
 - Water Conservation Committee.
 - Scope of Services for the Inflow/Infiltration Study.
 - WWTP Alum Feed Pump.
 - Aeration System Blower Failure.
 - Westhill Drive Clogged Sewer Main.
 - Hiring Update for Wastewater.
 - Semi-Annual SDNR Plan Wastewater Plant Inspection
3. Discussion and Possible Action on Approval of the Financial Assistance Agreement (FAA) for the WDNR Clean Water Fund Loan for the Wastewater Treatment Facility Upgrade.
4. Discussion and Possible Action on Approval of the Financial Assistance Agreement (FAA) for the WDNR Safe Drinking Water Fund Loan for the Drinking Water Treatment Facility.
5. Discussion and Possible Action on Approving a Stepped Sewer Rate Increase.
6. Discussion on Establishing a Mandatory Private Side Lead Lateral Replacement Ordinance.
7. Discussion and Possible Action on the 2021-2025 DRAFT Capital Budget.
8. Discussion and Review of the 2019 PSC Annual Report for Drinking Water.

Adjourn.

**Next meeting scheduled for July 7, 2020.*

THIS NOTICE POSTED AT CITY HALL AND EMAILED TO CITY PAGES AND DAILY HERALD: May 29, 2020 at 12:00pm.

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 126 001 5074 and the password is 67948637. 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, live by cable TV, Channel 981, and a video is available in its entirety and can be accessed at <https://waam.viebit.com>. 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 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 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 May 5, 2020

A meeting of the Wausau Water Works Commission was called to order at 1:30 p.m. in City Hall on May 5, 2020. In compliance with Wisconsin Statutes, this meeting was posted and receipted for by the Wausau Daily Herald on April 29, 2020.

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

Others present: Eric Lindman, Dave Erickson, Scott Boers, Valerie Swanborg, Steve Opatik/Becher Hoppe, Mike Gerbitz/Donohue, Dave Voss/Miron Construction, Mike Krolczyk/C.D. Smith, Bob Van Ert/Van Ert Electric Company.

1) Approve Minutes of April 23, 2020 Meeting.

Force advised he had questions and they can be tabled until the next meeting so we can get to the agenda. We had tabled the issue of the mandatory private lead service lateral replacement ordinance for a future meeting, will that be at our next meeting? Lindman confirmed we will and we'll have examples from other communities.

Force asked for an update on the barrier around Reservoir Park. Boers advised he had just gotten word from the Parks Dept. that they will be planting Junipers around the area of the pipe.

Force proposed that he, Boers and Miller work together on the Water Conservation Education Program unless there is something else in the works. Boers responded that would be fine. Force added that if there was no objection he would volunteer to do that along with anyone else that would like to join them. Force asked for clarification on the date of the next meeting. Rosenberg responded the next Water Commission meeting is June 2nd. Force thought maybe they could find time to get together before that.

Lindman advised there was a clarification on page 10 of the minutes under Dave Voss' comments, "Miron does 98% of all that type of work in the state" should say "Miron and CD Smith do 98% of that type of work in the state".

Gehin moved to approve the minutes of the April 23, 2020 meeting. Seconded by Herbst and the motion carried 5-0.

2) Director's Report on Utility Operations.

Gehin asked Erickson if he knows the percentage of sludge they have out. Erickson responded approximately 80% of it. They're hoping to finish within the next couple of days.

Gehin asked whether the DNR has responded any further regarding the foaming and if it originated from Wausau Chemical's new or old facility. Erickson advised it originated from the

old facility. He did send a report and talked with them but he hasn't heard anything since then and will follow up.

Director's Report placed on file.

3) Discussion Related to the Residential and Commercial Percentage of Usage Versus Revenue.

Lindman advised that Ehler's was with us via phone if anyone had any questions. Brian Roemer/Ehler's did put together a memo that was included in the packet. It shows how our rate structure compares with others, rates for residential users vs commercial usage and revenue by residential vs commercial. If anyone wants to relook at the rate structure we could do that at the next proposed rate study. Force asked when that would be. Lindman advised we'd begin that in 2021. Roemer advised that he hopes he's provided the framework as to where the utility has been in terms of water rates, water structure and an understanding of how the PSC looks at it and that we are governed by the PSC. He added that it is advisable that anytime there is a conventional rate case, to propose your own cost of service study. With the timeline for the safe drinking water loan, this would have added more time for them and the PSC and was not doable at this time for what the PSC had already done. He would advise we look at doing that next time. Gehin asked for the A and B sized utilities, what percentage get what they want vs accepting what the PSC has given them. Roemer explained that in terms of preparing your own cost of service and having the PSC review it, it's more common in the larger utilities such as the Milwaukee area or typically 20,000 plus customers. The main reasons they have prepared a cost of service study for smaller communities have been if you don't feel the rates are following suit and the multi-family class was recently introduced in 2014 so the rates have been skewed.

4) Discussion on the PSC Public Hearing.

Lindman advised that we have completed the public hearing with the PSC. There was one public comment posted and the public comment period ended May 4th. The PSC will be moving forward with finalizing the rate structure but doesn't have a timeline at this point. Roemer added that typically it takes 7-14 days however, the PSC has been sensitive to the timing in regards to the safe drinking water fund loan so they've advanced their processes so it's ready to go. He's hoping it will be ready within the next week or so.

5) Discussion and Possible Action on Award of the WWTF Construction Contract.

Lindman advised he had sent out a memo this morning from Donohue. Gerbitz went through the May 4th bid evaluation memo. On the top of the first page is a summary of the bids that were received from Miron and C.D. Smith. The base bid does not include a very important element of the project and that is effluent filtration. A component of this project is to position the city to comply with an impending phosphorous TMDL. This future permit and requirement will require the city to discharge less phosphorous than it has historically. Possibly .2 mg/L-.3 mg/L depending on what the flows are through the facility. The base bid doesn't include filtration as they wanted to competitively bid different manufacturers against one another which is what alternatives 8, 9, 10 & 11 are on the bid summary. There are two different filter manufacturers, one by Kruger and one by Aqua Aerobics. 2 of the alternates are

for 3 filter units and 2 of the alternatives are for 4 filter units. Not knowing where bids were going to end up they thought that was a prudent approach. They spent a lot of time talking to staff and they had a preference for the filtering action of the Aqua units as it filters from the outside to the inside, that's attractive to them and they understand that. They always try to take the preferences of plant staff into account and wherever possible to fully comply with those preferences. In this instance, there is a compelling cost difference, a track record difference between the two and some performance differences between them as well. This is a rare instance where staff has a preference for Aqua but given the track record, performance and compelling cost difference, Donohue has to recommend the Kruger alternative as they will be ultimately responsible to protect the financial well-being and for the outcomes of this facility. Their recommendation is to go with alternative 8 which is 3 Kruger filter units. From a hydraulic loading standpoint that alternative is the same as alternative 11. This levels the playing field and the capital cost difference is approximately \$443,000.00 between them. The city does need to select one of the alternatives and Donohue would recommend they select alternative 8. Table II looks at the base bid plus alternative 8 for Miron and C.D. Smith. Miron is the apparent low bidder for that scenario. They refer to that throughout the rest of the memo as the essential project. This is the project exactly as it was outlined in the facility plan. Donohue thinks there is another alternative that the city should give serious consideration to and that is alternate 6. One of the most important performance parameters for an activated sludge system for the liquid train, the secondary clarifier surface area. This alternative would add a fourth secondary clarifier and increase the surface area by 45%. That would give the facility tremendous operating flexibility and additional capacity. The cost for that alternative was \$1.6 million for Miron which is quite a bit lower than our estimate and quite a bit less than if the facility were to construct that at a later date, possibly double that cost. The recommended project is the base project plus alternate 8 which is 3 Kruger filters and alternate 6 which is the additional secondary clarifier. The low bidder for this recommended project with the 2 different alternatives came from Miron in the amount of \$77,732,000.00. Donohue started collaborating with Miron and looking for ways of reducing the project cost. Table 4 in the memo summarizes what the construction budget is starting with the \$80 million that we've been talking about for a couple years, subtract off other project related costs and we arrive at the construction budget of \$71,720,309.00. The projects and bids that we've been looking at exceed that budget so we've been looking at some value engineering alternatives and ways to reduce the project cost without affecting the integrity of the project. They looked at approximately 230 different line items where they could possibly reduce the project cost. The product of that effort could produce a potential savings of \$1,557,247 as shown in table 5. This savings would be realized by change order. Value engineering is a healthy and common exercise. Another thing that is standard operating procedure is looking at type II operating equipment which is equipment that the city chooses to purchase based on preference and price. They've gone through the type II equipment with the city and the things they were able to change without affecting the integrity of the facility would produce approximately \$485,200.00 in savings. Table 5 is the essential project and reflects the base bid plus alternate 8 and subtracting the savings by change order for type II equipment and value engineering to arrive at a total of \$74,053,553.00. This is in the vicinity of 3% of the original construction budget.

Table 6 is the recommended project plus alternate 6 & 8 and subtracting the savings by change order for a total of \$75,689,553.00. The last page of the memo is figure 2 that reflects the quarterly bill for a typical residential customer for the recommended project or the essential project. Using the clean water fund, the recommended project would result in a quarterly bill of about \$88.00, the essential project would be a little over \$87.00 and the estimated quarterly bill that has been talked about with the public has been \$88.50 per quarter.

Force asked Erickson if their preference for the Aqua Aerobics filter was based on literature that they reviewed or witnessing the filters. Erickson advised they did have several field trips. Staff spoke with the operators and had a preference for the equipment but did not have a chance to evaluate cost or anything like that. Force asked if they looked at Kruger and Aqua Aerobics. Erickson confirmed they had. Gerbitz advised there is a fundamental difference between the 2 brands. Donohue did do the life cycle cost analysis for each filter and the savings for Kruger is about \$1.3 million over 20 years. The warranty and O & M procedures are similar for both.

Gehin is aware that Kruger has approximately 12 functioning units in the state and Aqua does not have any, not for phosphorous removal. The oldest one that has been in service has been in Oconomowoc and to date, staff has not changed out the media. From his understanding it's a 4 or 5 year cycle for the media to be changed with Aqua. Gerbitz advised that their recommendation might be different if the TSS limit wasn't so low and the cost differences weren't so compelling.

Force brought up the public comment from the public hearing about bonds and what we're doing for financing. He's not interested in visiting the finance aspects of this project but asked what financing through bonds may look like as opposed to how we are doing it.

Lindman advised that Donohue has looked at this too. The interest rates are definitely higher for bonds. Roemer advised that the clean water fund and safe drinking water fund programs are really good programs when you qualify for them mainly due to the interest rate that you're allowed. Right now for the safe drinking water fund we're looking at an interest rate of about 1.8% and for the clean water it will depend on when we close on the loan but for a 30 year loan right now it would be about 1.9%. If you were to do that out in the public market with current market conditions we'd be looking at an interest rate of around 3%. He would disagree with Mr. Del Conte that submitted the public comment for the public hearing.

Gehin asked about closing costs, etc. for bonds versus the state loans. Roemer stated that typically those costs are cheaper through the state loans but he won't say it always is. However the interest savings reduces the overall debt coverage.

Force stated rates would go up in either case. Ehlers confirmed that is correct. Force advised that he brings this up because we open up public comment periods but don't get much response or in many cases no response. He just wanted to make sure that Mr. Del Conte's comments were fully considered.

Rosenberg stated that we will give C.D. Smith the chance to make some comments as they did not have the opportunity to speak at the last meeting.

Mike Krolczyk, C.D. Smith:

The wastewater project was bid and is over budget. The engineer said a number of times that he was surprised by that. A week before the project was bid, they contacted the engineer because they were concerned about the number of electrical bidders. They knew there was only one electrical bidder bidding the project. The other firm needed more time so they requested a week so the other firm could bid the project and that request was denied. The other electrical contractor called the engineer as well and that was denied. The project was then bid and the electrical value of that represents 22% of the project or \$16.7 million dollars. The water treatment facility came in within budget and there were 4 electrical bidders on that project. The morning of the bid, they contacted the only electrical contractor and asked what their number was going to be, approximately. They responded about \$10 million and the final bid came in at \$16.7 million. Prior to the last meeting on April 23rd, they brought up these concerns with the engineer and they said that would be brought up at the meeting, it was never brought up. They have since contacted 4 electrical bidders that if the project were to be rebid, they would bid. He understands they can value engineer the project and that happens a lot in the private sector but it doesn't happen a lot in the public sector. Not a project of this size and scope, he believes this is one of the largest projects for the City of Wausau ever. They wouldn't be here if the electrical issue didn't come up. He's confident with the pandemic that if this project were to be rebid that we would get better numbers because of the electrical people that are interested and contractors are hungry. They are requesting that the city rebid the project, do the ethical thing and the legal thing. The city could save money and there is time to do it.

Force stated that it is his understanding that we are on a timeline to receive the state revolving loan funds and there is a deadline associated with that. He believes it was brought up at the last meeting that rebidding the project would possibly disqualify us for meeting this deadline, is that correct?

Lindman responded that he thinks if we wanted to rebid the project we could but would be right up against the deadline when those bids would be opened. Just to put some perspective into the bid, initially it was out for 6 weeks. Upon request, with the electrical contractors and other bidders, we extended it 2 weeks to accommodate bidders. He knows that Donohue was in contact with the other electrical contractor but they could not guarantee, even if they were given additional time, they would get their bid in.

Gerbitz stated that he doesn't want to portray that it was simply denied, taken lightly or not taken seriously. They were talking to both general contractors and were very worried about the single electrical subcontractor. He was talking to the subcontractor on Monday. He asked if they would grant an extension and they would know where they were at with their bid on Friday. They issued an addendum on Wednesday in which there was no bid extension and agreed they would talk on Friday to make their final decision. With that addendum on Wednesday without an extension in it and never an intention of putting an extension in it, that electrical bidder said he was out. He decided and he withdrew. At that point, they had a decision to make. We're already 8 weeks into this and have a funding deadline fast approaching. There is no guarantee if we extended this 1 or 2 weeks that the small electrical contractor with the staff that he has would be able to complete a bid. The decision was to

make the electrical cost shown so we all know what that cost is and make good decisions with the information that we have after the bid opening. It wasn't a situation that was not taken seriously or that they denied it, quite frankly it was that other electrical contractor that decided he was out.

Dave Voss/Miron Construction:

He just wants to talk about facts today. Mike/C.D. Smith stated that the project would come in under what it is now, he's not sure that is a fact. That is what he would like to have. They got a letter today from August Winter, who is their major mechanical sub-contractor with this job, Ferguson who is their supplier say materials will be going up 3-5% within the next 2 weeks. 3% would be \$155,000.00 and 5% would be \$259,000.00 that the job would go up just on the Ferguson contract. They also got a letter from their metal building supplier that the base price of steel will go up \$50.00/ton as of May 1st. Unfortunately, he did not talk to Van Ert Electric the morning of the bid. He did not know where his bid was going to come in but does know that Van Ert is a very good electrical contractor and knows he spent 6-7 weeks working on this project to come up with a bid. This is a very complicated electrical installation and probably one of the toughest. Nobody is going to bid this job in 2-4 weeks. His final comment is that if anyone on the commission thinks that the number for the electrical bid is not worthy, they have the right to award the project and they can go out and secure another electrical contractor if they so desire. They don't like to do that, they've used Van Ert's bid all the way through and are comfortable with it. They've broke that bid down numerous ways for Donohue to show all the intricacies and he personally thinks the engineer was a little short on the electrical budget and that happens.

Bob Van Ert/Van Ert Electric:

They've been in business since 1964 and employ 83 people in Marathon County and about 160 people in the Northcentral Wisconsin area. They've grown to a business of 561 employees and they didn't do that by taking advantage of a place they live and work in. They've been in the Wausau area for 50 years, their corporate office is here and the last thing he would want to do is take advantage of the City of Wausau. They've done many projects in this city such as the Dudley Tower, Gander Mountain, Lodge at Cedar Creek, Jefferson Street Inn and many smaller water and wastewater projects in the city. Many of the street projects they've done the underground for. They don't just throw a dart at a dart board to figure out what it takes to do a \$16.7 million dollar project. They count every piece of equipment, wire, conduit etc. There is 185,000 feet of surface mounted conduit and 1.2 million feet of wire going into this project. All of this goes to components whether it be lighting, motors, instruments, etc. This is a complicated project which runs almost 3 years and need to keep the existing plant running while the new one is being built. This is not an easy project. They will dedicate a project manager full time to this project along with 2 full time superintendents. They've asked many questions of Donohue throughout the bid process and many of the addendums were a result of them digging into the plans and specs for items that may be missing or needed clarification. They gave a complete breakdown to Donohue of all the major costs. They've done a lot of work for both Miron and C.D. Smith. Right now they are doing a \$10 million dollar project

with C.D. Smith. He heard insinuations that they may not have gotten the same price as Miron and that's completely bull. They got the same price at the same time and if anyone wants to see the emails he's got them. This is an important project for Van Ert, it will give them 3 years' worth of work for people right in town.

Mike/C.D. Smith:

He wants to mention again that he was told the project would be \$10 million dollars and it went to \$16.7 million dollars. Also, the electrical bidders had asked for 3 weeks. He handed out documentation.

Miller advised he didn't have access to the documentation handed out, if there is anything that could be part of the discussion that would be great.

Force asked if someone could read the memo to Miller.

Rosenberg read an email from Faith Technologies showing interest in rebidding, along with others from Total Electric and Erin Electric that they would rebid the project.

Gehin advised that he thinks we'd be taking a lot of risk in rebidding. He had heard before Miron even mentioned it that steel prices will be going up. He would prefer to award today.

Lindman explained that this would be awarded at the original bid and then there would be a change order for the deductions down to \$75,689,553.00.

Force asked about the discussion we had about the draft from Clark Dietz about an evaluation of operating procedures. He's assuming we are still going to look at that. Lindman advised that is correct.

Rosenberg clarified the motion: Accept the base bid for Miron in Table 3 with the intention it becomes the number from Table 6.

Motion by Gehin to accept Miron's base bid of \$77,732,000.00 with the expectation for it to become \$75,689,553.00. Seconded by Force. Motion carried 5-0.

6) Discussion on the DWTF Project Schedule for SDWL Funding.

Lindman explained that the commission awarded the drinking water facility project at the last meeting. With the new council on and to provide some clarification he had put together some additional information for any council members that were interested in the project. This is on a tighter timeline than the wastewater project. The expectation is that the notice of award for this would be provided this week. A lot of information had come out on the drinking water facility with bid review memos, alternates, needs for the project, compliance and relocation of that project. He tried to outline that in a one and a half page memorandum.

No motion necessary.

7) Adjourn.

There being no further business to discuss, motion was made by Force to adjourn the meeting. Seconded by Herbst. Motion carried 5-0.

Michelle Weasler, Recording Secretary

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May 29, 2020

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 – May 2020

WATER DIVISION

1. Annual hydrant flushing was completed from May 11 to the 22nd. Over 1600 hydrants were ran during that two week period.
2. The utility has resumed meter operations. We will be scheduling appointments starting the last week in May.
3. Hydro Corp plans to resume Cross Connection Inspections beginning June 8th. (letter attached)
4. Due to a fixture failure, minor flooding occurred at the water plant on the night of May 21st. Luckily the flooding was contained to the lab, office area and entry vestibule.
5. Annual clarifier changeover is planned for Mid-June.
6. Brief report from the "Water Conservation Committee".

WASTEWATER DIVISION

1. Please find attached the proposed detailed scope of services from Strand for the inflow/infiltration study. The scope of services outlines different phases of the project along with costs for each phase of the project. The flow meters are proposed to be installed and in place for an estimated 12-weeks. The project is set up so the utility has the option to complete all phases of the work, only a portion of the work, or amend the work in order to fit the needs of the utility.
2. The alum feed pump at the WWTP failed on 5/4/20 which caused our effluent phosphorus to spike. We believe we are back on track to meet permit limits for May.
3. One of the three aeration system blowers failed on 5/11/20. The blowers are to be replaced as part of the plant upgrade but that could be a year or more away. It is critical that we have two blowers available so we are exploring options for a temporary replacement or to expedite the installation of the new replacement blowers.
4. On 5/15/20 a clogged sewer main on Westhill Drive caused wastewater to drain from a manhole cover across the road to a storm sewer. Fortunately, it did not cause any basement backups. The sewer crew promptly cleaned the line and a Sanitary Sewer Overflow (SSO) report was submitted to the WDNR. The DNR issued a Notice of Noncompliance requiring additional public notification. Latex gloves and non-flushable wipes were a partial cause of the problem and the public notification is an opportunity to stress why it is important to keep these items out of the sewer system.
5. We are proceeding with the hiring process for 3 sewer maintainers, 2 plant mechanics, and a lab technician. We are incredibly short-handed and behind schedule on collection system and plant maintenance.
6. Our semi-annual WDNR plant inspection, which was originally scheduled in April, has been rescheduled for June 9th.

Scott Boers

From: Scott Mitchell <scottm@hydrocorpinc.com>
Sent: Friday, May 22, 2020 1:19 PM
To: Scott Boers
Subject: HydroCorp CCC Inspections
Attachments: COVID-19 Letter Insert-2020-0521.docx; HydroCorp PPE Policy - 2020-0501 - Copy.pdf

Good Afternoon,

Hope everything is well with you and everyone at the utility.

The reason for this email is that in the month of March, HydroCorp suspended all cross connection control inspections in Wisconsin due to the COVID-19 pandemic and the "Safer at Home" order issued by Governor Tony Evers. Now that the order is no longer in place for most counties and local business are opening, we will be starting our CCC inspections in your community but with caution.

Our plan is not to inspect Medical Facilities, Nursing Homes, Assisted Living Facilities, Funeral Homes, Day Care Centers, Pharmaceutical Plants, and Doctor Offices. That could change later in the year depending on how things change with the pandemic. Our inspectors will be equipped with PPE for themselves and others such as gloves, face mask and shield, hand sanitizer and thermometer. They will be instructed to take their temperature each morning and document the results before starting their day. Any customer they encounter that either has not reopened or is uncomfortable with us entering the building will be delayed for their inspection to a later date. Attached is insert that will be sent with the inspection notice and the HydroCorp PPE Policy that all our inspectors must follow when the return to work.

All our inspectors will start working in the field starting June 8th. You will receive the facility inspection list several weeks before to look over, same as past practice.

For those of you that have a residential CCC program, we would like to do block scheduling (morning or afternoon appointments) instead of individual scheduled times for the residential program. We have found that there is more flexibility if a customer needs to change things around and there are less customer complaints. If you prefer that we do individual scheduled times like in the past, please let me or your account manager know, and we can keep that process in place.

Any questions or concerns please email or call me at 920-960-0897.

Thanks and be safe!

Scott Mitchell

Midwest Director of Operations



HydroCorp - Corporate Office

5700 Crooks Road, Suite 100

Troy, MI 48098

248.250.5000



Strand Associates, Inc.®
910 West Wingra Drive
Madison, WI 53715
(P) 608.251.4843

AGREEMENT FOR TECHNICAL SERVICES

CITY OF WAUSAU AND STRAND ASSOCIATES, INC.®

This Agreement is made and entered into this ____ day of _____, 20____, between the City of Wausau, Wisconsin, hereinafter referred to as OWNER, located at 407 Grant Street, Wausau, Wisconsin 54403, and Strand Associates, Inc.®, hereinafter referred to as ENGINEER. This Agreement shall be in accordance with the following elements.

Scope of Services

Services to be provided under this Agreement can be described as engineering, scientific, computer-aided design drafting, clerical, and administrative activities performed in accordance with the terms and conditions of this Agreement and subsequently issued Task Orders. Prior to ENGINEER's engagement by OWNER, a mutually agreeable Task Order document shall be developed and executed by both parties. The Task Order will include **Project Information**, a detailed **Scope of Services**, **Compensation**, and **Schedule**. The general form of the Task Order shall be in accordance with the enclosed Task Order 20-01.

Service Elements Not Included

The following services are not included under this Agreement. If such services are required, they will be provided as noted in each subsequently issued task order.

1. Additional and Extended Services: Any services during construction made necessary by:
 - a. Work damaged by fire or other cause during construction.
 - b. A significant amount of defective or neglected work of any contractor.
 - c. Prolongation of the time of the construction contract.
 - d. Default by contractor under the construction contract.
2. Additional OWNER-required Site Visits and/or Meetings: Additional OWNER-required site visits or meetings.
3. Archaeological or Botanical Investigations: ENGINEER will assist OWNER in engaging the services of an archaeologist or botanist, if required, to perform the field investigations necessary for agency review.
4. Bidding- and Construction-Related Services: Any services involved in performing bidding- and construction-related services.
5. Drawings and Specifications: Final design services including drawings and specifications.
6. Flood Studies: Any services involved in performing flood and floodway studies.

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City of Wausau
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7. Geotechnical Engineering: Geotechnical engineering information, if required, shall be provided through OWNER and OWNER's geotechnical consultant. ENGINEER will assist OWNER with defining initial scope of geotechnical information that is required to allow OWNER to procure geotechnical engineering services.
8. Land and Easement Surveys/Procurement: Any services of this type including, but not limited to, a record search, field work, preparation of legal descriptions, or assistance to OWNER for securing land rights necessary for siting sanitary sewer, tanks, and appurtenances.
9. Preparation for and/or Appearance in Litigation on Behalf of OWNER: Any services related to litigation.
10. Review of Product Substitutions or Means, Method, Technique, Sequence, or Procedure Substitutions Proposed by Contractor: The terms of the construction Contract call for the construction contractor to reimburse OWNER for ENGINEER's cost for evaluating substitute products, means, method, technique, sequence, or procedure of construction. ENGINEER's cost for such evaluations is not included.
11. Revising Designs, Drawings, Specifications, and Documents: Any services required after these items have been previously approved by state or federal regulatory agencies, because of a change in the project scope or where such revisions are necessary to comply with changed state and federal regulations that are put in force after Services have been partially completed.
12. Services Furnished During Readvertisement for Bids, if Ordered by OWNER: Any services of this type if a contract is not awarded pursuant to the original bids.
13. Services Related to Buried Wastes and Contamination: Should buried solid, liquid, or potentially hazardous wastes or subsurface or soil contamination be uncovered at the site, follow-up investigations may be required to identify the nature and extent of such wastes or subsurface soil or groundwater contamination and to determine appropriate methods for managing of such wastes or contamination and for follow-up monitoring.

Compensation

OWNER shall compensate ENGINEER for Services indicated in each subsequently issued Task Order for a lump sum or for an estimated fee on an hourly rate basis plus expenses.

Expenses incurred such as those for subconsultants, travel, meals, printing, postage, copies, computer, electronic communication, and long distance telephone calls will be billed at actual cost plus ten percent.

Only sales taxes or other taxes on Services that are in effect at the time this Agreement is executed are included in the Compensation. If the tax laws are subsequently changed by legislation during the life of this Agreement, this Agreement will be adjusted to reflect the net change.

The lump sum or estimated fee for the Services is based on wage scale/hourly billing rates, adjusted annually on July 1, that anticipates the Services will be completed as indicated. Should the completion time be extended, it may be cause for an adjustment in the lump sum or estimated fee that reflects any wage scale adjustments made.

City of Wausau
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The lump sum or estimated fee will not be exceeded without prior notice to and agreement by OWNER but may be adjusted for time delays, time extensions, amendments, or changes in the **Scope of Services**. Any adjustments will be negotiated based on ENGINEER's increase or decrease in costs caused by delays, extensions, amendments, or changes.

Schedule

Services will begin upon execution of this Agreement, which is anticipated the week of April 27, 2020. This Agreement will terminate two years following its execution. The schedule for individual tasks will be included on each subsequently issued Task Order.

Standard of Care

The Standard of Care for all Services performed or furnished by ENGINEER under this Agreement will be the care and skill ordinarily used by members of ENGINEER's profession practicing under similar circumstances at the same time and in the same locality. ENGINEER makes no warranties, express or implied, under this Agreement or otherwise, in connection with ENGINEER's Services.

OWNER's Responsibilities

1. Assist ENGINEER by placing at ENGINEER's disposal all available information pertinent to the Task Order-specified project including previous reports, previous drawings and specifications, and any other data relative to the scope of the Task Order-specified project.
2. Furnish to ENGINEER, as required by ENGINEER for performance of Services as part of this Agreement, data prepared by or services of others obtained or prepared by OWNER relative to the scope of the Task Order-specified project, such as soil borings, probings and subsurface explorations, and laboratory tests and inspections of samples, all of which ENGINEER may rely upon in performing Services under this Agreement.
3. Provide access to the site as required for ENGINEER to perform Task Order-specified project Services under this Agreement.
4. Guarantee access to and make all provisions for ENGINEER to enter upon public and private lands as required for ENGINEER to perform Task Order-specified project Services under this Agreement.
5. Examine all reports, sketches, estimates, special provisions, drawings, and other documents presented by ENGINEER and render, in writing, decisions pertaining thereto within a reasonable time so as not to delay the performance of ENGINEER.
6. Provide all legal services as may be required for the development of the Task Order-specified project.
7. Retain the services of a soils consultant to provide any necessary geotechnical evaluation and recommendations.
8. Provide the front end documents that require the contractor to name ENGINEER as an additional insured on contractor's General Liability and Automobile Liability insurance policies and to indemnify ENGINEER to the same extent that the contractor insures and indemnifies OWNER.

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9. Pay all permit and plan review fees payable to regulatory agencies.
10. Provide any necessary traffic control for ENGINEER to perform Task Order-specified services under this Agreement.

Opinion of Probable Cost

Any opinions of probable cost prepared by ENGINEER are supplied for general guidance of OWNER only. ENGINEER has no control over competitive bidding or market conditions and cannot guarantee the accuracy of such opinions as compared to contract bids or actual costs to OWNER.

Observation Services

In furnishing observation services, ENGINEER's efforts will be directed toward determining for OWNER that the completed project will, in general, conform to the Contract Documents; but ENGINEER will not supervise, direct, or have control over the contractor's work and will not be responsible for the contractor's construction means, methods, techniques, sequences, procedures, or health and safety precautions or programs, or for the contractor's failure to perform the construction work in accordance with the Contract Documents.

Payment Requests

ENGINEER's review of Payment Requests from contractor(s) will not impose responsibility to determine that title to any of the work has passed to OWNER free and clear of any liens, claims, or other encumbrances. Any such service by ENGINEER will be provided through an amendment to this Agreement.

Changes

1. OWNER may make changes within the general scope of this Agreement in the Services to be performed. If such changes cause an increase or decrease in ENGINEER's cost or time required for performance of any Services under this Agreement, an equitable adjustment will be made and this Agreement will be modified in writing accordingly.
2. No services for which additional compensation will be charged by ENGINEER will be furnished without the written authorization of OWNER. The fee established herein will not be exceeded without agreement by OWNER but may be adjusted for time delays, time extensions, amendments, or changes in the **Scope of Services**.
3. If there is a modification of Agency requirements relating to the Services to be performed under this Agreement subsequent to the date of execution of this Agreement, the increased or decreased cost of performance of the Services provided for in this Agreement will be reflected in an appropriate modification of this Agreement.

Extension of Services

This Agreement may be extended for additional Services upon OWNER's authorization. Extension of Services will be provided for a lump sum or an hourly rate plus expenses.

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Payment

OWNER shall make monthly payments to ENGINEER for Services performed by ENGINEER and accepted by OWNER in the preceding month based upon monthly invoices. Nonpayment 30 days after the date of receipt of invoice may, at ENGINEER's option, result in assessment of a 1 percent per month carrying charge on the unpaid balance.

Nonpayment 45 days after the date of receipt of invoice may, at ENGINEER's option, result in suspension of Services upon five calendar days' notice to OWNER. ENGINEER will have no liability to OWNER, and OWNER agrees to make no claim for any delay or damage as a result of such suspension caused by any breach of this Agreement by OWNER. Upon receipt of payment in full of all outstanding sums due from OWNER, or curing of such other breach which caused ENGINEER to suspend Services, ENGINEER will resume Services and there will be an equitable adjustment to the remaining project schedule and compensation as a result of the suspension.

Data Provided by Others

ENGINEER is not responsible for the quality or accuracy of data nor for the methods used in the acquisition or development of any such data where such data is provided by or through OWNER, contractor, or others to ENGINEER and where ENGINEER's Services are to be based upon such data. Such data includes, but is not limited to, soil borings, groundwater data, chemical analyses, geotechnical testing, reports, calculations, designs, drawings, specifications, record drawings, contractor's marked-up drawings, and topographical surveys.

Termination

This Agreement may be terminated with cause in whole or in part in writing by either party subject to a two-week notice and the right of the party being terminated to meet and discuss the termination before the termination takes place. ENGINEER will be paid for all completed or obligated Services up to the date of termination.

Third-Party Beneficiaries

Nothing contained in this Agreement creates a contractual relationship with or a cause of action in favor of a third party against either OWNER or ENGINEER. ENGINEER's Services under this Agreement are being performed solely for OWNER's benefit, and no other party or entity shall have any claim against ENGINEER because of this Agreement or the performance or nonperformance of Services hereunder. OWNER and ENGINEER agree to require a similar provision in all contracts with contractors, subcontractors, subconsultants, vendors, and other entities involved in the Task Order-specified project to carry out the intent of this provision.

Dispute Resolution

Except as may be otherwise provided in this Agreement, all claims, counterclaims, disputes, and other matters in question between OWNER and ENGINEER arising out of or relating to this Agreement or the breach thereof will be decided first by mediation, if the parties mutually agree, or with a bench trial in a court of competent jurisdiction within the State of Wisconsin.

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Terms and Conditions

The terms and conditions of this Agreement and subsequently issued Task Orders will apply to the Services defined in the **Scope of Services**. OWNER-supplied purchase order is for processing payment only; terms and conditions on the purchase order shall not apply to these Services.

IN WITNESS WHEREOF the parties hereto have made and executed this Agreement.

ENGINEER:

STRAND ASSOCIATES, INC.®

OWNER:

CITY OF WAUSAU

Joseph M. Bunker
Corporate Secretary

Date

Robert B. Mielke
Mayor

Date

NOT FOR
SIGNATURE



Strand Associates, Inc.®
910 West Wingra Drive
Madison, WI 53715
(P) 608.251.4843

Task Order No. 20-01
City of Wausau, Wisconsin (OWNER)
and Strand Associates, Inc.® (ENGINEER)
Pursuant to Agreement for Technical Services dated _____, 20__

Project Information

Services Name: Infiltration/Inflow (I/I) Analysis

Services Description: Perform an analysis of the I/I levels in OWNER's collection system and review potential system improvements.

Scope of Services

ENGINEER will provide the following services to OWNER.

Project Kickoff

1. Prepare and submit a request for information to OWNER outlining information needed for initial project tasks. Review OWNER-provided information.
2. Participate in a project kickoff meeting.

Flow Metering Program

1. Provide preliminary locations for up to 15 temporary flow meters and up to two rain gauges and discuss with OWNER prior to placement.
2. Visit each flow metering and rain gauge location to review suitability for flow meter or rain gauge installation. Adjust flow meter or rain gauge locations as appropriate based on field review.
3. Install and calibrate up to 15 flow meters and two rain gauges. Flow meters and rain gauges will be provided by ENGINEER.
4. Conduct approximately weekly site visits to download data and perform routine maintenance tasks on the equipment. A 12-week metering duration is anticipated.
5. Remove flow meters and rain gauges following the conclusion of the flow metering period.

Sanitary Sewer Access Hatch Assessment

1. Review existing data related to previously combined sewers located in North First Street, including OWNER-provided closed circuit television (CCTV), mapping, and drawings.
2. Observe third-party assessment of the six sanitary sewer access hatches located in the previously combined sewers. Third-party assessment contractor shall be hired by OWNER.

Post-Metering Data Analysis

1. Review the flow metering results for potential high I/I based on ENGINEER's in-house methodologies.
 - a. Review groundwater monitoring data provided by OWNER and river level data available from United States Geological Survey. Review for potential correlations between these elevations and infiltration rates.

ALC:\gic\R\MAD\Documents\Agreements\W\Wausau, City of (WI)\ATS.2020\TO\2020\1803.003.20-01.docx

City of Wausau
Task Order No. 20-01
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- b. Review and characterize rainfall data associated with each rainfall event captured during flow metering.
 - c. Develop a “dry-weather” daily flow that is representative of each metering location.
 - d. Evaluate system response to a series of rainfall events. For each metering location plot the wet weather monitoring data along with the rainfall and the average dry weather data.
 - e. Quantify the I/I as a percentage of rainfall volume.
2. Review the capacity of the main interceptors utilizing a spreadsheet-based static capacity model. Interceptors evaluated will generally be those 12-inches or larger. Compare capacity to flows measured during flow metering period.

Technical Memorandum No. 1

1. Prepare draft Technical Memorandum No. 1 to document the results of the flow metering program, post-metering data analysis, and combined sewer assessment. Submit to OWNER for review.
2. Review OWNER’s comments on draft Technical Memorandum No. 1 via teleconference. Incorporate OWNER’s comments as appropriate and finalize Technical Memorandum No. 1.

Alternatives Analysis

1. Develop a preliminary list of alternatives for continued mitigation of I/I. Review preliminary list with OWNER to identify feasible alternatives to review in additional detail.
2. Develop opinions of costs for feasible alternatives. Provide non-monetary advantages and disadvantages of each. Identify and document information that will be gathered by implementation of each alternative.
3. Review condition assessment of sanitary sewer access hatches and provide potential options for rehabilitation if needed.
4. Meet with OWNER via teleconference to discuss alternatives.

Technical Memorandum No. 2

1. Prepare draft Technical Memorandum No. 2 to document the results of the alternatives analysis. Submit to OWNER for review.
2. Review OWNER’s comments on draft Technical Memorandum No. 2 via teleconference. Incorporate OWNER’s comments as appropriate and finalize Technical Memorandum No. 2.

Alternatives and Report Development

1. Provide I/I mitigation implementation alternatives, including areas of the collection system where alternatives could be implemented.
2. Develop a draft report by combining Technical Memoranda Nos. 1 and 2 and the alternatives section. Submit to OWNER for review.
3. Review OWNER’s comments on draft report via teleconference.
4. Present results of report to Wausau Waterworks Commission.
5. Develop final report and submit to one PDF copy and five hard copies to OWNER.

City of Wausau
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If-Authorized Services

If authorized in writing by OWNER, ENGINEER will provide the following services:

1. Add or remove flow meters to and from the flow metering program.
2. Extend or shorten the flow metering program.

Compensation

OWNER shall compensate ENGINEER for **Scope of Services** under this Task Order on an hourly rate basis plus expenses an estimated fee of \$189,500, allocated as shown in the table below.

Service	Fee
Project scoping, preliminary data request/review, and kickoff meeting	\$ 10,900
Flow metering program	\$106,420
Sanitary sewer access hatch assessment, post-metering data analysis, and Technical Memorandum No. 1	\$ 28,990
Alternatives analysis and Technical Memorandum No. 2	\$ 14,600
Alternatives and report development	<u>\$ 28,590</u>
Total	\$189,500

OWNER shall compensate ENGINEER for **If-Authorized Services** under this Task Order at a rate of \$7,100 per flow meter for Item No. 1 and \$4,370 per week for Item No. 2.

Schedule

Services will begin upon execution of this Task Order, which is anticipated the week of May 18, 2020. Services are scheduled for completion on May 31, 2021.

TASK ORDER AUTHORIZATION AND ACCEPTANCE:

ENGINEER:

STRAND ASSOCIATES, INC.®

OWNER:

CITY OF WAUSAU

 Joseph M. Bunker
 Corporate Secretary

 Date

 Robert B. Mielke
 Mayor

 Date



TY2020 Utility Rate Studies

6/2/20 Wausau Water Works Commission Meeting





Agenda

- Water
 - ✓ DWTF Funding
 - ✓ Rate Adjustment
 - ✓ Future Planning
- Sewer
 - ✓ WWTF Funding
 - ✓ Rate Adjustment
 - ✓ Future Planning



Water – DWTF Funding

- Safe Drinking Water Fund Loan
 - ✓ Underwriter: State of WI
 - ✓ Term & Rate: 20 years & 1.76%
 - ✓ Payment Structure: Interest on disbursements; principal upon substantial completion
 - ✓ Security: Water Revenues



Water – DWTF Funding

- Coverage
 - ✓ Net Revenues need to be > 1.25 times annual debt service
 - Existing Debt Service: 2017 & 2019 Water Revenue Bonds
 - ✓ Net Revenues = Op. Revs. Of System less current expenses
 - Insufficient at time of closing
 - Need rate adjustment



Water – Rate Adjustment to close

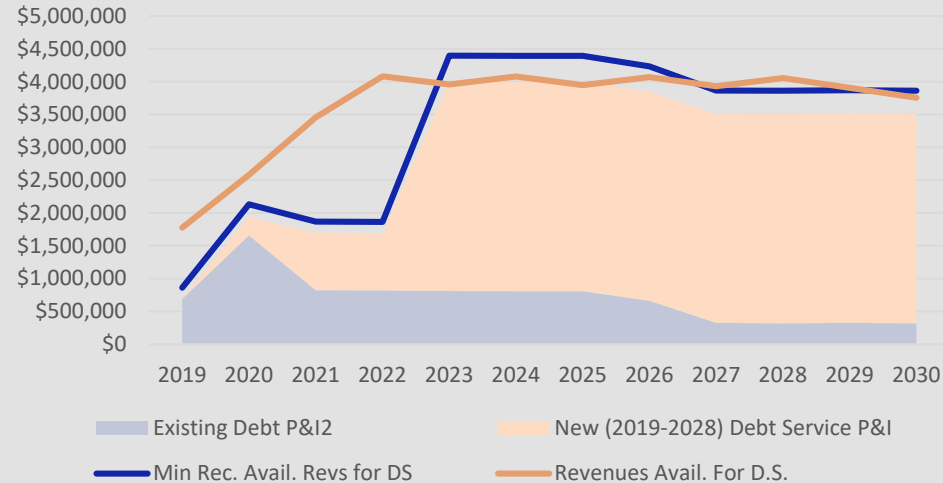
- Regulated: Conventional Rate Case (CRC) through PSC
 - ✓ PSC determines rates based on
 - O&M, Depreciation, and Rate of Return on Rate Base
 - See 2/25/20 Memo to WW Commission
 - ✓ Application filed 11/19/20
 - ✓ Rate Implementation Letter Signed 5/20/20
 - ✓ PSC Authorized 2 step rate increase
 - ✓ Additional increase needed

	1 st step	2 nd Step	3 rd step
Effective	7/1/20	1/1/21	1/1/22 (TBD)
Incr. to Rate Revs	26%	3%	9.78% (TBD)
Incr. to Avg. RES Incl. PFP	27.7%	3.5%	TBD



Water – Future Planning

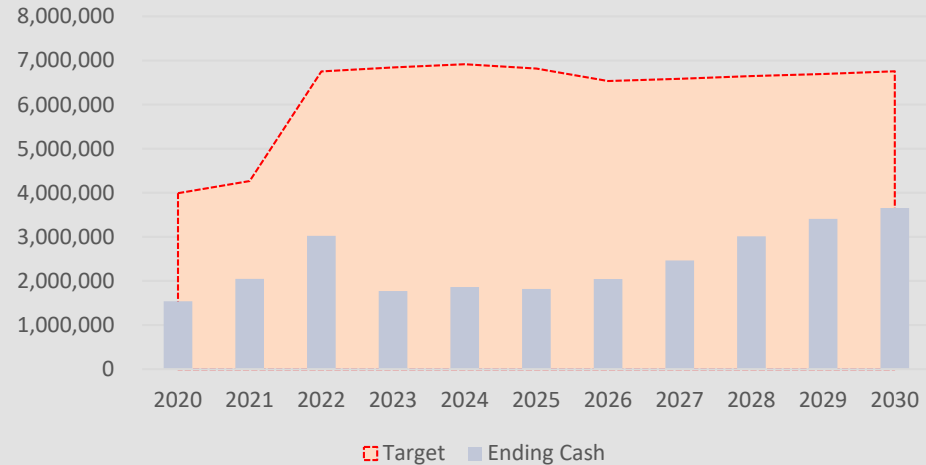
"All-in" Debt Coverage



Are rates set to pay for financial obligations?

Are rates set to maintain adequate reserves?

Reserves - Actual vs. Target





Sewer – WWTF Funding

- Clean Water Fund Loan
 - ✓ Underwriter: State of WI
 - ✓ Term & Rate: 30 years & 1.87%
 - ✓ Payment Structure: Interest on disbursements; principal upon substantial completion
 - ✓ Security: Sewer Revenues



Sewer – WWTF Funding

- Coverage
 - ✓ Net Revenues need to be > 1.25 times annual debt service
 - Existing Debt Service: 2017 & 2019 Sewer Revenue Bonds
 - ✓ Net Revenues = Op. Revs. Of System less current expenses
 - Insufficient at time of closing
 - Need rate adjustment



Sewer – Rate Adjustment

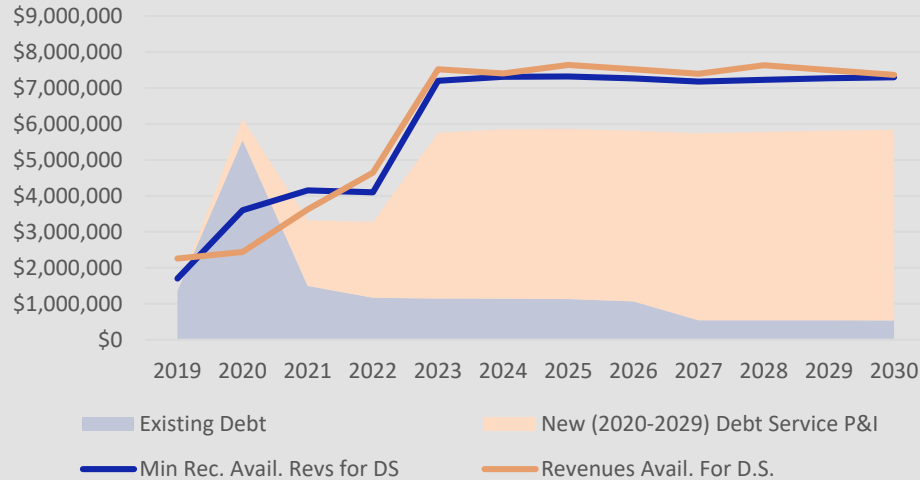
- Unregulated: TY20 SRS by Ehlers
 - ✓ Determines rates based on
 - O&M, Depreciation, and Rate of Return on Rate Base
 - See Introduction & Overview in Report
 - ✓ DOA Financial Review determined need for 63% increase
 - Stepped Adjustments
 - City Action: Resolution passed before FAA approval

	1 st step	2 nd Step	3 rd Step
Effective	10/1/20	7/1/21	10/1/22
Incr. to Rate Revs	22%	22%	19%
Incr. to Avg. Residential	22%	22%	19%



Sewer - Future Planning

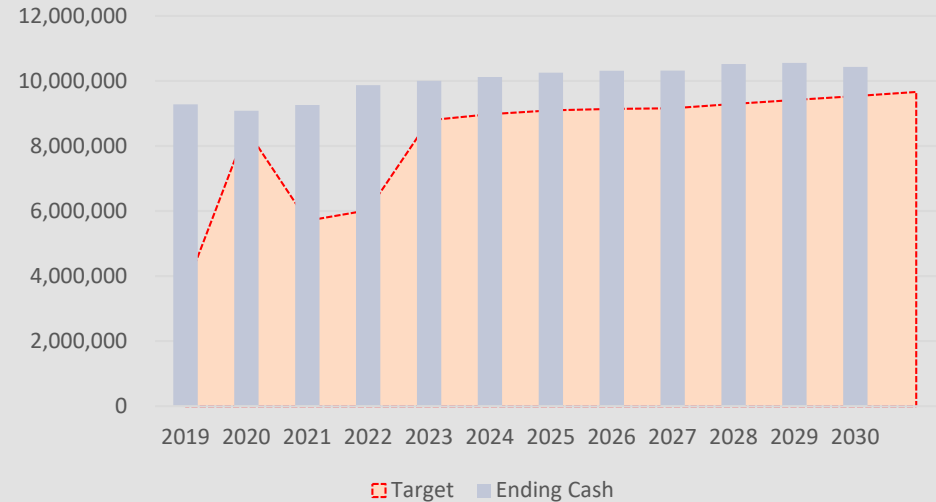
"All-in" Debt Coverage



Are rates set to pay for financial obligations?

Are rates set to maintain adequate reserves?

Reserves - Actual vs. Target





Overall Impact on Avg. RES User

Year	Water					Sewer					Utility Bill (Quarterly)	Change Over Prior Year	% of 2018 MHI 40,260	Year
	Increase	Water Vol. Charge ¹	Water User Charge ²	Utility Bill (Quarterly)	Change Over Prior Year	Increase	Sewer Vol. Charge ³	Sewer User Charge ³	Utility Bill (Quarterly)	Change Over Prior Year				
		Flat	Serv. + PFP				100CF	Gen Service						
2019		2.29	27.54	\$ 55.84			3.11	20.40	\$ 58.84		\$ 114.68		1.14%	2019
2020	24.60%	2.80	36.78	\$ 71.39		22.00%	3.88	23.87	\$ 71.78	\$ 12.94	\$ 143.17	\$ 28.49	1.42%	2020
2021	3.60%	2.91	37.95	\$ 73.92	\$ 2.53	22.00%	4.73	29.12	\$ 87.57	\$ 15.79	\$ 161.49	\$ 18.32	1.60%	2021
2022	9.78%	3.19	41.66	\$ 81.14	\$ 7.23	19.00%	5.63	34.65	\$ 104.21	\$ 16.64	\$ 185.36	\$ 23.87	1.84%	2022
2023	0.00%	3.19	41.66	\$ 81.14	\$ -	18.00%	6.64	40.89	\$ 122.97	\$ 18.76	\$ 204.11	\$ 18.76	2.03%	2023
2024	3.00%	3.29	42.91	\$ 83.58	\$ 2.43	0.00%	6.64	40.89	\$ 122.97	\$ -	\$ 206.55	\$ 2.43	2.05%	2024
2025	0.00%	3.29	42.91	\$ 83.58	\$ -	3.00%	6.84	42.11	\$ 126.66	\$ 3.69	\$ 210.24	\$ 3.69	2.09%	2025
2026	3.00%	3.39	44.20	\$ 86.08	\$ 2.51	0.00%	6.84	42.11	\$ 126.66	\$ -	\$ 212.74	\$ 2.51	2.11%	2026
2027	0.00%	3.39	44.20	\$ 86.08	\$ -	0.00%	6.84	42.11	\$ 126.66	\$ -	\$ 212.74	\$ -	2.11%	2027
2028	3.00%	3.49	45.52	\$ 88.67	\$ 2.58	3.00%	7.05	43.38	\$ 130.46	\$ 3.80	\$ 219.13	\$ 6.38	2.18%	2028
2029	0.00%	3.49	45.52	\$ 88.67	\$ -	0.00%	7.05	43.38	\$ 130.46	\$ -	\$ 219.13	\$ -	2.18%	2029
2030	0.00%	3.49	45.52	\$ 88.67	\$ -	0.00%	7.05	43.38	\$ 130.46	\$ -	\$ 219.13	\$ -	2.18%	2030
											TOTAL Δ	\$ 104.45		

Notes:

1. Current water volumetric rate is \$2.29/100CF.
2. The water user charges include a monthly service charge of \$17.07 plus a public fire protection charge of \$10.47 for a 5/8 inch meter.
3. The current Sewer volumetric rate is \$3.11/100CF. Current General Service Chars is \$20.40 per quarter for 5/8" meter.
4. The usage is assumed to be 12.36 CCF per quarter.

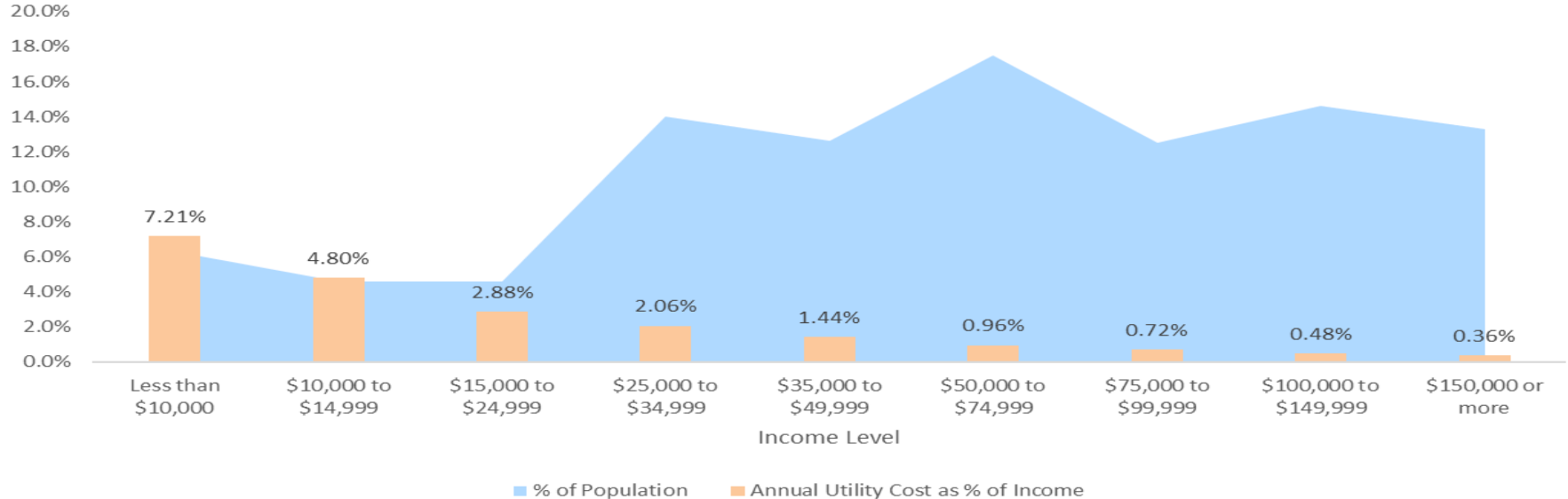
Legend:

2024 is the final year of the furnished CIP.



EFCN Utility Bill Affordability Analysis

Utility Bill Affordability Analysis



Notes:

- 1) Utility Cost taken as a 5-year average of water and wastewater bills for an average (5/8"; 12.36 CCF/qtr.) Residential User.
- 2) City Income Level from U.S. Census Bureau's American Community Survey
- 3) 15.5% of residential customers are estimated to have less than \$25,000 of income. These households will have spent more than 2.88% of their income under the 5-year average for this plan of \$720.54 (2020-2024).



PRESENTER

BRIAN ROEMER

MUNICIPAL ADVISOR

BROEMER@EHLERS-INC.COM



TO: Wausau Waterworks Commission

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

DATE: June 2, 2020

SUBJECT: Financial Assistance Agreement (FAA) – WWTF Clean Water Fund Loan

The WWTF project was bid in April 2020. There were two bidders for the project CD Smith and Miron Construction. Miron Construction was low bidder for the project. The construction bids came in slightly higher than the estimate. The Commission approved the project for award to include the base bid along with the addition of the secondary clarifier. The project was awarded to Miron Construction.

Utility Staff, engineer consultants and Miron Construction worked together to value engineer the project and review separate portions of the proposed work to try and find potential savings that could be realized while maintaining the integrity of the project for the utility. The project has been awarded according to the low bid received and once a Notice to Proceed is issued a change order will be issued with those identified savings, reducing the contract amount.

The final step in the process for this project is the formal approval of the FAA, this is the document prepared by the DOA, WDNR and City's Bond Counsel that outlines the total amount of borrowing needed to complete this project and sets forth the city's obligations related to the borrowing.

This project will be funded through the WDNR Environmental loan program, which will provide a federally subsidized loan with very favorable interest rates for the utility and the users. As part of the FAA approval the utility performed a detailed sewer rate analysis, which was prepared by Ehler's. The financial analysis and proposed rate increases will provide for debt coverage of this project as well as our projected 5-year capital borrowing projects and puts the utility in a much more secure and financially favorable position. Below is a summary of the cost of the project as it relates to the initial budget established in 2017.

Wastewater Treatment Facility Project Cost to Budget Comparison		
Professional Engineering Costs		
Facilities Plan		\$129,220.00
Amend 1	Preliminary Design	\$984,565.00
Amend 2	Final Design	\$3,323,900.00
Amend 3	Construction Services	\$4,351,831.00
Amend 4	Application Engineering (WWTF)	\$1,140,175.00
Engineering Total (thru Construction & Start-up) =		\$9,929,691.00

Construction Costs	
Construction Base Bid	\$76,096,000.00
Secondary Clarifier 4	\$1,636,000.00
Construction Bid Total Awarded =	\$77,732,000.00
Construction Budget	\$71,000,000.00

Other Project Cost Allocations	
City-Purchased IT Equipment	\$50,000.00
City Purchased IT Asset Management Software	\$50,000.00
Loan Closing Cost	\$24,995.00
Other Project Cost Total =	\$124,995.00

Total Awarded Project =	\$87,786,686.00
Principal Forgiveness =	(\$1,750,000.00)
CWF Loan Contingency (DNR Mandate) =	\$3,886,600.00

Total Loan Amount =	\$89,923,286.00	FAA Amount Approval
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Change Order Deduct =	(\$2,042,447.00)
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Project Total (After Change Order Deduct) =	\$87,880,839.00
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Original Project Budget (2017) =	\$80,000,000.00
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Total Contract Amount Obligated (No Contingency) =	\$83,994,239.00
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TO: Wausau Waterworks Commission

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

DATE: June 2, 2020

SUBJECT: Financial Assistance Agreement (FAA) – DWTF Safe Drinking Water Fund Loan

The DWTF project was bid in February 2020. There were three bidders for the project CD Smith, Market & Johnson and Miron Construction. Miron Construction was low bidder for the project. The construction bids came in less than the estimate. The Commission approved the project for award to include the base bid along with the add alternates. The project was awarded to Miron Construction.

The Public Service Commission (PSC) completed their rate analysis as requested by the utility. The new rates have been published and it is a proposed step increase, first to take place on July 1, 2020 and the second to take place on January 1, 2021. The utility will request another rate analysis beginning in August 2021. This rate review and result will likely be completed by the PSC in early 2022.

The final step in the process for this project is the formal approval of the FAA, this is the document prepared by the DOA, WDNR and City's Bond Counsel that outlines the total amount of borrowing needed to complete this project and sets forth the city's obligations related to the borrowing.

This project will be funded through the WDNR Environmental Loan Program, which will provide a federally subsidized loan with very favorable interest rates for the utility and the users. The financial analysis and water rate increases will provide for debt coverage of this project as well as our projected 5-year capital borrowing projects and puts the utility in a much more secure and financially favorable position. Below is a summary of the cost of the project as it relates to the initial budget established in 2018.

Drinking Water Treatment Facility Project Cost to Budget Comparison		
Professional Engineering Costs		
Facilities Plan		\$119,000.00
Amend 1	Pilot Study	\$66,000.00
Amend 2	Extend Pilot/Prelim & Final Design	\$2,227,775.00
Amend 3	Construction Services	\$2,210,350.00
Amend 4	Application Engineering (DWTF)	\$705,000.00
Engineering Total (thru Construction & Start-up) =		\$5,328,125.00

Construction Costs	
Construction Base Bid	\$31,036,434.00
Add Alternates	\$6,919,100.23
Construction Bid Total Awarded =	\$37,955,534.23
Construction Budget	\$35,671,875.00

Other Project Cost Allocations	
City-Purchased IT Equipment	\$50,000.00
City Purchased IT Asset Management Software	\$50,000.00
Loan Closing Cost	\$25,000.00
Other Project Cost Total =	\$125,000.00

Total Awarded Project =	\$43,408,659.23
Principal Forgiveness =	(\$500,000.00)
SDW Loan Contingency (DNR Mandate) =	\$1,897,777.00

Total Loan Amount =	\$44,806,436.23	FAA Amount Approval
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Original Project Budget (2018) =	\$40,900,000.00
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Total Contract Amount Obligated (No Contingency) =	\$42,908,659.23
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TO: Wausau Waterworks Commission

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

DATE: June 2, 2020

SUBJECT: Wastewater (Sewer) Rates – Proposed Step Increases

The utility hired Ehler's Financial to perform a sewer rate analysis and determine what the proposed rate increases would be to appropriately fund debt service and remain financially healthy and stable. The rate analysis includes all of the proposed debt for the treatment facility upgrade and also includes our proposed 5-year capital plan. The proposed percentage increase would be 63%; the increases would be phased in over the next 3-years as proposed:

- 22% for 10/1/2020 implementation
- 22% for 7/1/2021 implementation
- 19% for 10/1/2022 implementation

You will notice that the DRAFT resolution prepared by staff has different rate numbers than the Ehler's rate schedule. The difference is the resolution prepared by staff takes a direct percentage increase for each charge, the Ehler's increase shows an overall increase to customer bills based on the rate study conducted based on the city's rate structure. I wanted to make the Commission aware of the difference and for them to be able to consider both options. Based on review I would recommend approving the proposed Ehler's rate schedule.

I have attached a copy of my billing and usage from 2019. I used my usage to show what my current rates look like and then how the full rate increase would impact my bill in 2022. I am definitely an above average water user so I felt this may be a good comparison to have on the record as a real world example.

Also attached are the rate comparisons with other utilities, these graphs have been presented over the past couple years during many presentations to the public and elected officials.

The final attachment is one of my slides from the last presentation I gave in February at a Public Information Meeting. This relates to affordability, both of these projects are affordable within our community, both projects are desperately needed for the community moving into the future and our rates will still remain competitive with our peer communities.

The proposed sewer rate increase, if approved by the Commission, will be brought to the full city council on June 9, 2020 approving the resolution for the stepped sewer rate increases.

Rate Summary (Quarterly Charges)

City of Wausau, WI

	Current	2020 Proposed	2021 Proposed	2022 Proposed
Domestic Sewer Customers				
<u>Meter Size</u>				
5/8"	\$20.40	\$23.87	\$29.12	\$34.65
3/4"	\$20.40	\$23.87	\$29.12	\$34.65
1"	\$27.60	\$32.22	\$39.31	\$46.78
1 1/4"	\$38.40	\$44.87	\$54.74	\$65.14
1 1/2"	\$44.40	\$52.03	\$63.47	\$75.53
2"	\$74.40	\$87.11	\$106.28	\$126.47
3"	\$134.40	\$157.28	\$191.88	\$228.33
4"	\$219.60	\$256.80	\$313.29	\$372.82
6"	\$433.20	\$506.91	\$618.43	\$735.94
8"	\$681.60	\$797.36	\$972.78	\$1,157.61
Volumetric Rate per 100 CF	\$3.11	\$3.88	\$4.73	\$5.63
Unmetered Rate	\$82.60	\$101.40	\$123.71	\$147.22
High Strength Industrial (Monitored Customers)				
BOD Charge per lb.	\$0.30	\$0.36	\$0.44	\$0.52
TSS Charge per lb.	\$0.55	\$0.51	\$0.62	\$0.74
P Charge per lb.	\$5.26	\$4.82	\$5.88	\$7.00
Al Charge per lb.	\$0.48	\$0.55	\$0.67	\$0.80
Volumetric Rate per 100 CF (bimonthly)	\$1.74	\$2.08	\$2.54	\$3.03
Wastehauler				
Septic Rate per 1000 Gal	\$83.93	\$99.51	\$121.40	\$144.47
Mixed Load Rate per 1000 Gal	\$21.37	\$26.38	\$32.19	\$38.30
Holding Tank Rate per 1000 Gal	\$9.46	\$12.46	\$15.20	\$18.08
Administrative Charge	\$27.36	\$42.01	\$51.25	\$60.99
Outside Users				
<u>Meter Size</u>				
5/8"	\$25.50	\$25.17	\$30.71	\$36.54
3/4"	\$25.50	\$25.17	\$30.71	\$36.54
1"	\$34.50	\$33.98	\$41.46	\$49.34
1 1/4"	\$48.00	\$47.32	\$57.73	\$68.70
1 1/2"	\$55.50	\$54.88	\$66.95	\$79.67
2"	\$93.00	\$91.88	\$112.09	\$133.39
3"	\$168.00	\$165.88	\$202.38	\$240.83
4"	\$274.50	\$270.85	\$330.44	\$393.22
6"	\$541.50	\$534.66	\$652.28	\$776.21
8"	\$852.00	\$841.00	\$1,026.02	\$1,220.96
Volumetric Rate per 100 CF	\$3.80	\$4.08	\$4.98	\$5.92
Unmetered Rate	\$103.00	\$106.78	\$130.28	\$155.03

ORDINANCE OF WAUSAU WATER WORKS COMMISSION

Amending Section 13.64.020, Basis for charges (Sewer Service Charges)

Committee Action: _____ **Ordinance Number:** 61-####

Fiscal Impact: _____

File Number: 87-0220 **Date Introduced:** June 2, 2020

The Common Council of the City of Wausau do ordain as follows:

Section 1. That Section 13.64.020 of the Wausau Municipal Code is hereby amended to read as follows:

Add ()

Delete (———)

13.64.020 Basis for charges. To pay for such a system there is imposed a service charge upon each user of the sewerage system as provided in this section.

(a) Charges for non-monitored customers are as follows:

(1) With No Sewer Meter. A minimum quarterly charge based on the size of the water meter plus the volume rate as noted in subdivision (3) of this subsection.

Water Meter Size in Inches	Minimum Quarterly Charge 2/1/2019	Minimum Quarterly Charge <u>10/1/2020</u>	<u>Minimum Quarterly Charge 7/1/2021</u>	<u>Minimum Quarterly Charge 10/1/2022</u>
5/8 or 5/3	\$20.40	<u>\$24.89</u>	<u>\$30.36</u>	<u>\$36.13</u>
¾	20.40	<u>24.89</u>	<u>30.36</u>	<u>36.13</u>
1	27.60	<u>33.67</u>	<u>41.08</u>	<u>48.89</u>
1-1/4	38.40	<u>46.85</u>	<u>57.15</u>	<u>68.01</u>
1-1/2	44.40	<u>54.17</u>	<u>66.08</u>	<u>78.64</u>
2	74.40	<u>90.77</u>	<u>110.74</u>	<u>131.78</u>
3	134.40	<u>163.97</u>	<u>200.04</u>	<u>238.05</u>
4	219.60	<u>267.91</u>	<u>326.85</u>	<u>388.95</u>
6	433.20	<u>528.50</u>	<u>644.77</u>	<u>767.28</u>
8	681.60	<u>831.55</u>	<u>1014.49</u>	<u>1207.25</u>

(2) With a Sewer Meter. A customer that meters the discharge will pay a flat monthly fee of ~~seventy-five dollars and no cents~~ Step one (10/1/2020): ninety-one dollars and fifty cents for the first such metering device and ~~thirty-seven dollars and fifty cents~~ forty-five dollars and seventy-five cents for each additional metering device installed on the premises.

... Step two (07/1/2021): one-hundred-eleven dollars and sixty-three cents for the first such metering device and fifty-five dollars and eighty-two cents for each additional metering device installed on the premises.

... Step three (10/1/2022): one-hundred-thirty-two dollars and eighty-four cents for the first such metering device and sixty-six dollars and forty-two cents for each additional metering device installed on the premises.

All such metering devices shall be approved by the utility's director prior to installation. The volume rate shall also apply.

(3) Volume Rate. All volume as recorded by the water meter each quarter shall be charged to the customer at the rate of ~~three dollars and eleven cents~~ Step one (10/1/2020): three dollars and seventy-nine cents per one hundred cubic feet, except as noted in subdivision (4) of this subsection.

... Step two (07/1/2021): four dollars and sixty-three cents per one hundred cubic feet

... Step three (10/1/2022): five dollars and fifty-one cents per one hundred cubic feet

...

(b) Charges for monitored customers are as follows:

(1) Minimum Charge. A customer that meters the discharge will pay a flat monthly fee ~~one hundred fifty dollars~~ Step one (10/1/2020): one-hundred-eighty-three dollars for the first such metering device and ~~seventy-five dollars~~ ninety-one dollars and fifty cents for each additional metering device installed on the premises.

... Step two (7/1/2021): two-hundred-twenty-three dollars and twenty-six cents for the first such metering device and one-hundred-eleven dollars and sixty-three cents for each additional metering device installed on the premises.

... Step three (10/1/2022): two-hundred-sixty-five dollars and sixty-eight for the first such metering device and one-hundred-thirty-two dollars and eighty-four cents for each additional metering device installed on the premises.

All such metering devices shall be approved by the utility's director prior to installation. If the water meter is the basis for determining volume of waste discharge, the minimum monthly charge will be one-third of the minimum quarterly charge per the water meter size as shown in subdivision (1) of subsection

(a) of this section, but not less than ~~thirty-seven dollars and fifty cents~~ Step one (10/01/2020): forty-five dollars and seventy-five cents per month.

... Step two (7/01/2021): fifty-five dollars and eighty-two cents per month.

... Step three (10/01/2022): sixty-six dollars and forty-two cents per month.

- (2) Volume Charge. All volume per bimonthly billing shall be charged to the customer at the rate of ~~one dollar and seventy-four cents~~ Step one (10/1/2020): two dollars and twelve cents per one hundred cubic feet.

... Step two (7/1/2021): two dollars and fifty-nine cents per one hundred cubic feet.

... Step three (10/1/2022): three dollars and eight cents per one hundred cubic feet.

- (3) Concentration Charge. The customer shall be charged ~~thirty cents~~ Step one (10/1/2020): thirty-seven cents per pound for each pound of BOD₅ material and ~~fifty-five cents~~ sixty-seven cents per pound for each pound of suspended solids and ~~five dollars and twenty-six cents~~ six dollars and forty-two cents per pound for each pound of phosphorus and ~~forty-eight cents~~ fifty-nine cents per pound for each pound of aluminum the customer discharges to the sanitary sewer.

... Step two (7/1/2021): forty-five cents per pound for each pound of BOD₅ material and eighty-two cents per pound for each pound of suspended solids and seven dollars and eighty-three cents per pound for each pound of phosphorus and seventy-one cents per pound for each pound of aluminum the customer discharges to the sanitary sewer.

... Step three (10/1/2022): fifty-three cents per pound for each pound of BOD₅ material and ninety-seven cents per pound for each pound of suspended solids and nine dollars and thirty-two cents per pound for each pound of phosphorus and eighty-five cents per pound for each pound of aluminum the customer discharges to the sanitary sewer.

- (4) Monitoring Fee. A monthly fee of ~~one hundred fifty dollars~~ Step one (10/1/2020): one-hundred eighty-three dollars shall be paid by each customer for utility monitoring costs.

... Step one (07/1/2021): two-hundred twenty-three dollars and twenty-six cents shall be paid by each customer for utility monitoring costs.

... Step three (10/1/2022): two-hundred sixty-five dollars and sixty-eight cents shall be paid by each customer for utility monitoring costs.

...

- (c) Charges for Non-monitored Customers Outside of City Limits.

(1) Non-monitored customers located outside of the corporate limits of the city served with sanitary sewer service directly by Wausau Water Works — Wastewater Division are subject to codes, policies, regulations and charges as established and set forth below. (This chapter applies to the remaining area of Town of Stettin Sanitary District 1 not annexed to Wausau.)

(2) Minimum Quarterly Charge for Metered Sewer Service. A minimum quarterly charge shall apply to each unit of business in a building or complex plus the volume charge as noted in subdivision (3) of this subsection. The basis for this charge will relate to comparable business in Wausau and/or number, size and type of plumbing fixtures. (The meter or meters used to record the volume of wastewater discharged to the sewer may not necessarily be the basis for the minimum charge, but the combined minimum charge for each unit of business per building or complex shall not be less than the related minimum charge per meter used to record the wastewater volume.) Residential units may apply and be granted metered sewer service. Each living unit shall be assessed a quarterly minimum charge per a 5/3 meter size.

Water Meter Size in Inches	Minimum Quarterly Charge 2/1/2019	Minimum Quarterly Charge 10/1/2020	Minimum Quarterly Charge 7/1/2021	Minimum Quarterly Charge 10/1/2022
5/8 or 5/3	\$25.50	\$31.11	\$37.95	\$45.17
¾	25.50	31.11	37.95	45.17
1	34.50	42.09	51.35	61.11
1-1/4	48.00	58.56	71.44	85.02
1-1/2	55.50	67.71	82.61	98.30
2	93.00	113.46	138.42	164.72
3	168.00	204.96	250.05	297.56
4	274.50	334.89	408.57	486.19
6	541.50	660.63	805.97	959.10
8	852.00	1039.44	1268.12	1509.06

(3) Private Meters. It will be the sole responsibility of each owner or tenant to purchase, install and maintain the necessary meters to record the volume of wastewater discharged from each residential (if a residence is metered), commercial or industrial building or complex. All commercial and industrial users shall install adequate metering equipment to ensure accurate metering of all wastewater discharged to the sanitary sewer system by April 1, 1987. Wausau Water Works reserves the right to inspect the meter equipment for proper installation to ensure accurate recording of all wastewater discharged and may test equipment as necessary to confirm meter accuracy. Access to meter equipment shall be permitted during normal working hours (eight a.m. to four-thirty p.m.) of the utility, Monday through Friday.

(4) Volume Charge. All volume as recorded by the private water meter or meters shall be charged to the customer at the rate of ~~three dollars and eighty cents~~ Step one (10/1/2020): four dollars and sixty-four cents per one hundred cubic feet.

... Step one (7/1/2021): five dollars and sixty-six cents per one hundred cubic feet.

... Step one (10/1/2022): six dollars and seventy-three cents per one hundred cubic feet.

(5) Non-metered Sewer Service (Residential Flat Fee Sewer Charge). Residential users not metered shall pay a flat fee sewer charge per living unit per quarter. The flat fee rate is ~~one hundred three dollars~~ Step one (10/1/2020): one-hundred-twenty-five dollars and sixty-six cents per quarter.

... Step two (7/1/2021): one-hundred-fifty-three dollars and thirty-one cents per quarter.

... Step three (10/1/2022): one-hundred-eighty-two dollars and forty-three cents per quarter

(d) Charges for Hauled Wastes Dumped at Wausau's Wastewater Plant.

(1) Hauled wastes dumped at Wausau's Wastewater Treatment Plant (WWTP) are subject to all codes, policies, regulations, and charges adopted by Wausau Water Works—Wastewater Division/Wausau Common Council. Specifically, all hauled wastes. . . .

(2) The following dumping charges shall be effective on ~~February 1, 2019:~~ Step one: October 1, 2020, Step two: July 1, 2021, Step three: October 1, 2019:

Monthly Administrative Fee— ~~\$32.83~~ Step one (10/1/2020): \$40.05 plus volume charge of ~~\$25.64~~ \$31.28 per 1,000 gallons discharged. The volume charge is a blended rate between septic and holding tank waste charges as shown below and based on an anticipated ratio of such wastes discharged at Wausau's WWTP.

... Step two (7/1/2021): \$48.86 plus volume charge of \$38.16 per 1,000 gallons discharged. . . .

... Step three (10/1/2022): \$58.15 plus volume charge of \$45.41 per 1,000 gallons discharged. . . .

Septic Tank Sludge — ~~\$100.72/1,000~~ Step one (10/1/2020): \$122.88/1,000 gallons, for 16% dumped volume.

... Step two (7/1/2021): \$149.91/1,000 gallons, for 16% dumped volume.

... Step three (10/1/2022): \$178.39/1,000 gallons, for 16% dumped volume.

Holding Tank/Drywell Wastes ~~\$11.35/1,000~~ Step one (10/1/2020): \$13.85/1,000 gallons, for 84% of the dumped volume.

... Step two (7/1/2021): \$16.89/1,000 gallons, for 84% of the dumped volume.

... Step three (10/1/2022): \$20.10/1,000 gallons, for 84% of the dumped volume.

The utility commission reserves the authority to modify the volume charge up to 25% during the months of December, January, February and March. The basis for this adjustment is dependent up the type of hauled waste received.

...

Section 2. All ordinances or parts of ordinances in conflict herewith are hereby repealed.

Section 3. This ordinance shall take effect on ~~February 1, 2019~~ Step one: October 1, 2020, Step two: July 1, 2021, Step Three: October 1, 2022, and upon passage and publication according to law.

Adopted:
Approved:
Published:
Attest:

Approved:

Katie Rosenberg, Mayor

Attest:

Leslie Kremer, Clerk

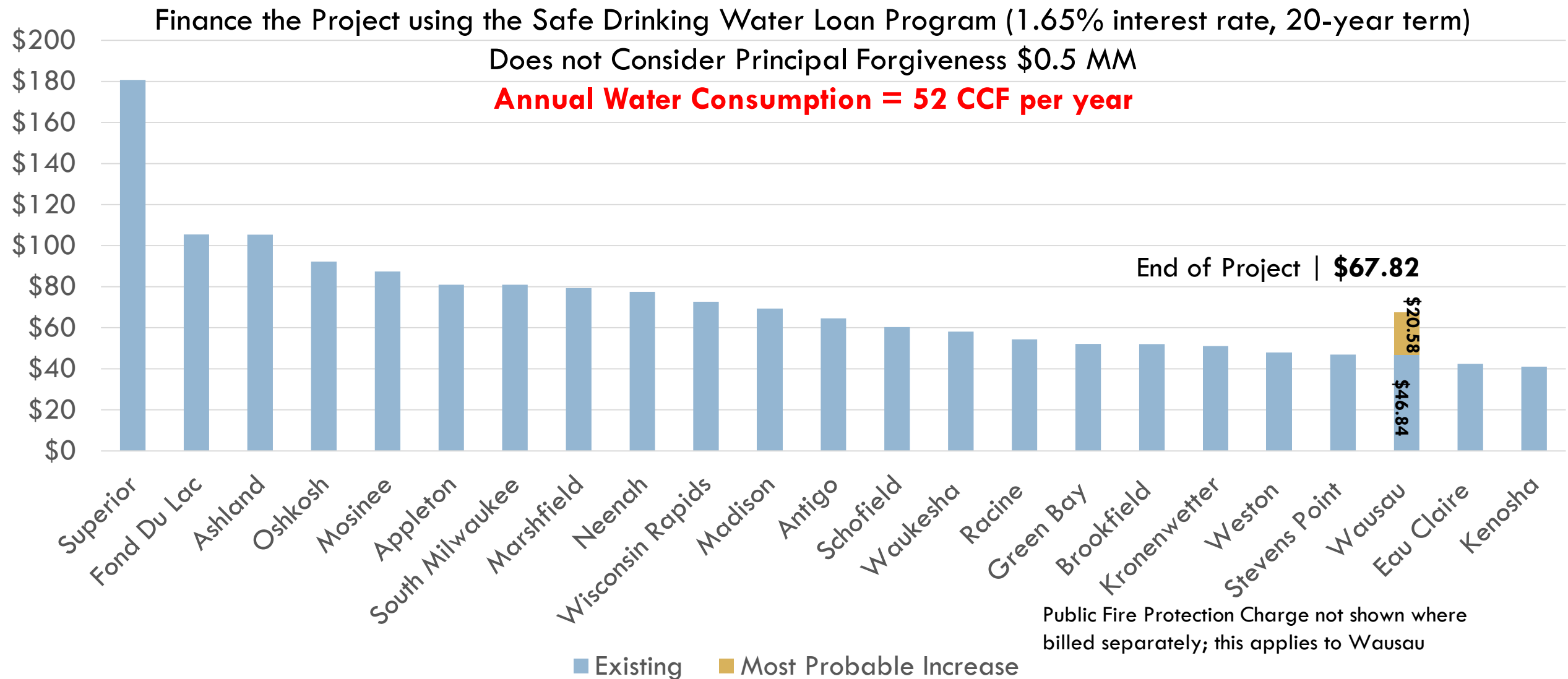
Billing History: Lindman, Family of 5, 3/4" Meter									
Utility Charges	Rate/ccf	Jan-Mar '19 Qty ccf	Qtr Charge	Apr-Jun '19 Qty ccf	Qtr Charge	Jul-Sep '19 Qty ccf	Qtr Charge	Oct-Dec '19 Qty ccf	Qtr Charge
Water Service									
Water - Qtrly Fee		Fixed	17.07	Fixed	17.07	Fixed	17.07	Fixed	17.07
Water - Vol Chrg	2.29	29	66.41	34	77.86	38	87.02	31	70.99
Water Service Subtotal			83.48		94.93		104.09		88.06
Sewer Service									
Sewer - Qtrly Fee		Fixed	20.40	Fixed	-	Fixed	-	Fixed	-
Sewer - Vol Chrg	3.11	29	90.19	34	105.74	38	118.18	31	96.41
Sewer Service Subtotal			110.59		105.74		118.18		96.41
Public Fire Service									
Public Fire		Fixed	10.47	Fixed	10.47	Fixed	10.47	Fixed	10.47
Total Quarterly Bill			\$204.54		\$211.14		\$232.74		\$194.94

Average QUARTERLY Usage & Cost	33	\$226.14
Average MONTHLY Usage & Cost	11	\$75.38

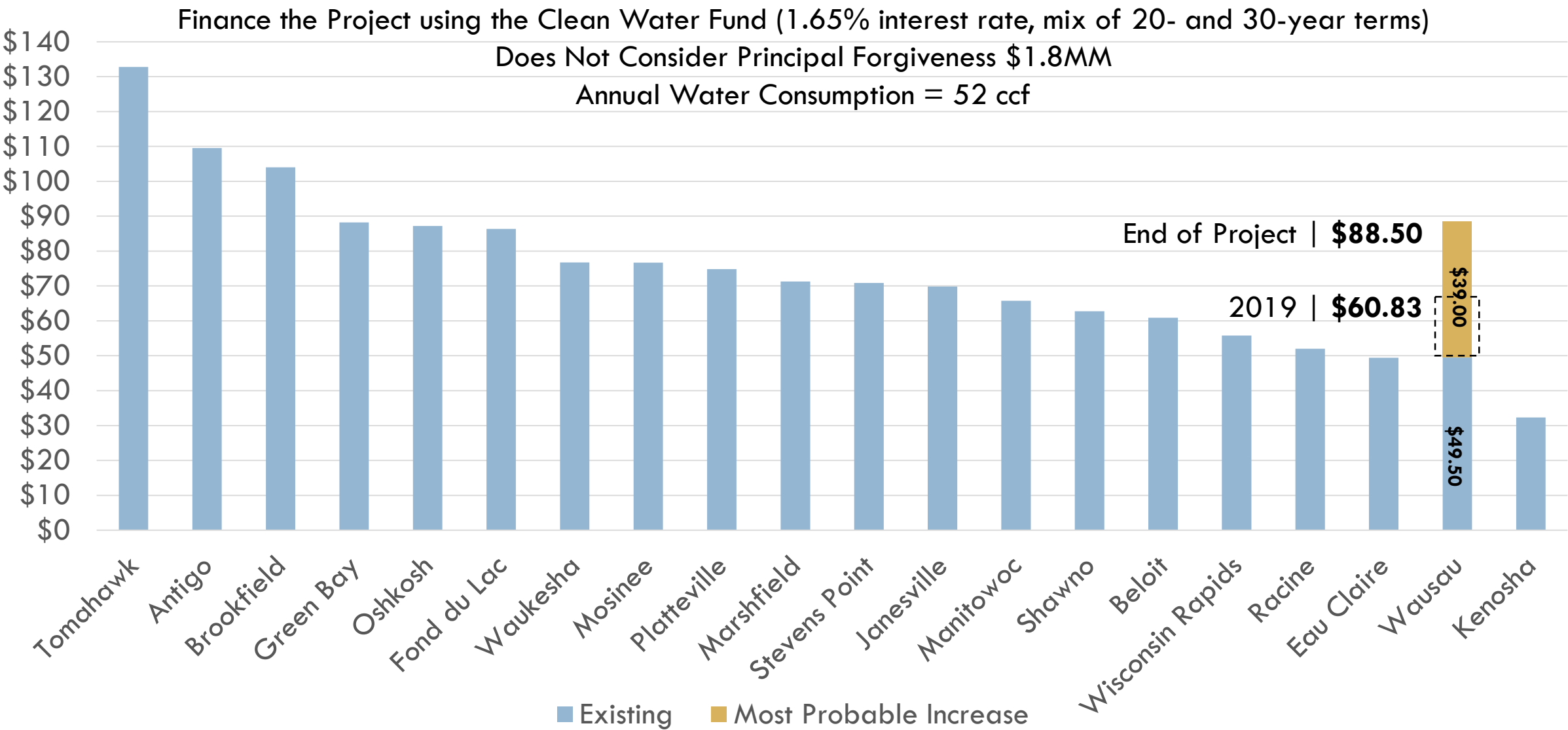
Billing Proposed: Lindman, Family of 5, 3/4" Meter; Water increase of 42% and Sewer increase of 63%									
Utility Charges	Rate/ccf	Jan-Mar '19 Qty ccf	Qtr Charge	Apr-Jun '19 Qty ccf	Qtr Charge	Jul-Sep '19 Qty ccf	Qtr Charge	Oct-Dec '19 Qty ccf	Qtr Charge
Water Service									
Water - Qtrly Fee		Fixed	24.24	Fixed	24.24	Fixed	24.24	Fixed	24.24
Water - Vol Chrg	3.25	29	94.30	34	110.56	38	123.57	31	100.81
Water Service Subtotal			118.54		134.80		147.81		125.05
Sewer Service									
Sewer - Qtrly Fee		Fixed	36.13	Fixed	36.13	Fixed	36.13	Fixed	36.13
Sewer - Vol Chrg	5.51	29	159.79	34	187.34	38	209.38	31	170.81
Sewer Service Subtotal			195.92		223.47		245.51		206.94
Public Fire Service									
Public Fire		Fixed	14.87	Fixed	14.87	Fixed	14.87	Fixed	14.87
Total Quarterly Bill			\$329.33		\$373.14		\$408.19		\$346.85

Average QUARTERLY Usage & Cost	33	\$364.38
Average MONTHLY Usage & Cost	11	\$121.46

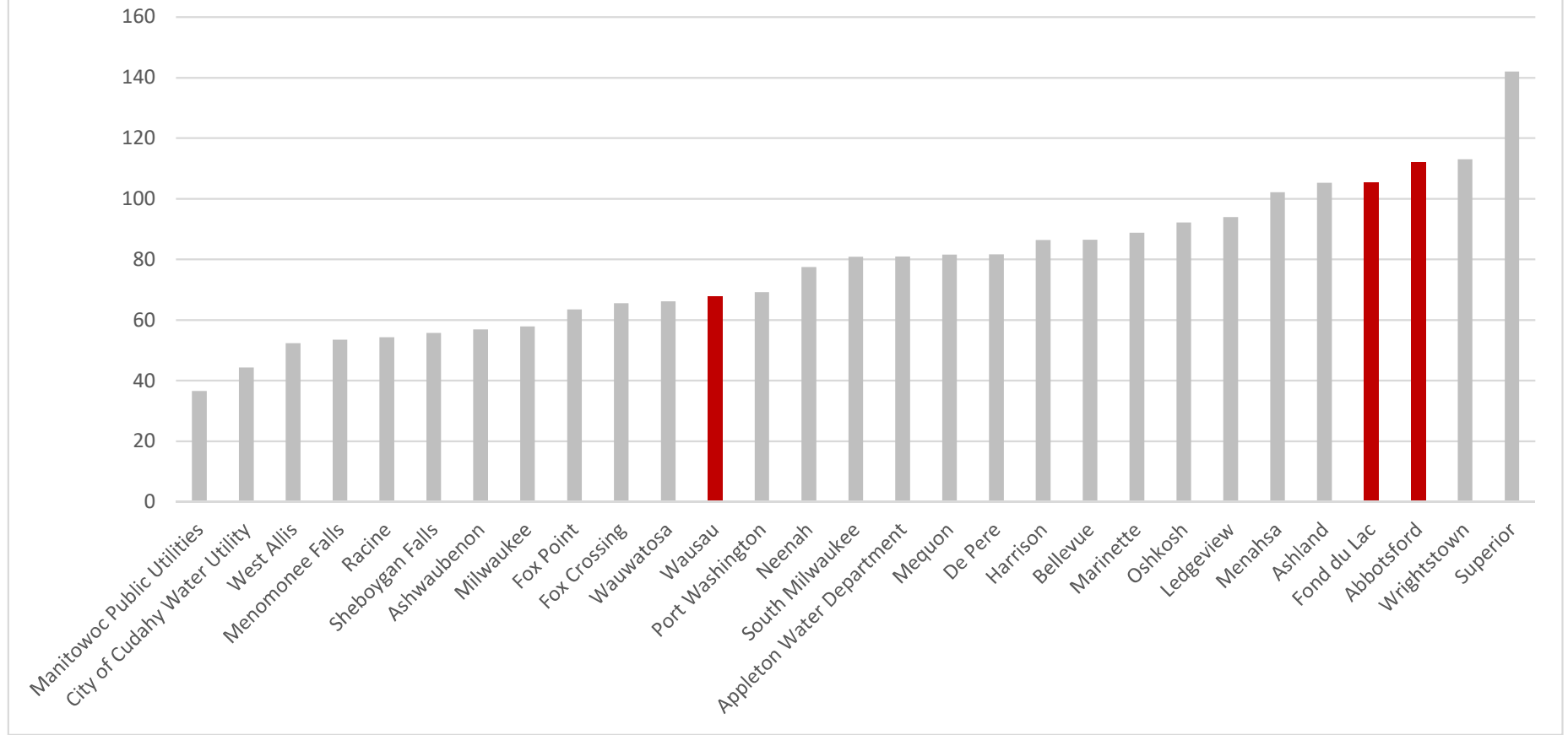
The Most Probable Residential Quarterly Cost to Finance the \$41MM Project



The Most Probable Residential **Quarterly** Cost to Finance the \$80MM Project



Water Rates for Advanced Treatment Systems



Affordability & Cost Effective

- No doubt big projects with BIG \$\$\$'s
- Significantly important – Providing safe clean water and treating wastewater; vital for future growth and sustainability
- Cost effective and affordable – Absolutely
- Wausau will be providing safe, high-quality drinking water to a typical home for less than \$1 /day
- Wausau will be collecting wastewater, treating it, and sending safe clean water back to the environment for a typical home for less than \$1 /day

MEMORANDUM

TO: MEG - Water Members

FROM: Attorney Lawrie Kobza & Attorney Jared Walker Smith

DATE: September 11, 2018

RE: Private Lead Service Line Financial Assistance Program – Model Ordinance

In 2017 Wisconsin Act 137, the Legislature provided municipalities and their water utilities with the authority to establish a financial assistance program to help customers replace their private lead service lines and to fund that financial assistance with utility rates. This authority is principally found in a new statutory section, Wis. Stat. § 196.372.

Municipalities and their utilities must follow a number of requirements in order to provide customers with financial assistance. First and foremost, a municipality must enact an ordinance that permits the water utility to provide financial assistance. That ordinance must also require each owner of property in that community that is serviced by a private lead service line to replace that line.

We have put together a model ordinance for a private lead service line financial assistance program. This model ordinance addresses the statutory requirements, and has been put together after reviewing ordinances adopted by other communities. The model ordinance is a work in progress, and should only be considered as guidance as you consider adopting your own ordinance.

The model ordinance does not cover the replacement of galvanized pipes. The Public Service Commission, however, has indicated that it may be reasonable for a community to cover replacement of private galvanized pipes which were attached to utility owned lead service lines under its financial assistance program. If your community chooses to cover the replacement of private galvanized pipes under its financial assistance program this model ordinance will need to be revised to provide for that.

This memo discusses the issues we considered when preparing the model ordinance and explains how the issues were handled in the draft. We welcome your thoughts and inputs on how to improve the draft.

1. *Replacement priority.*

While ordinances adopted under Wis. Stat. § 196.372 must require each owner of property in the community that is serviced by a private lead service line to replace that line, utilities have indicated that they need to be able to prioritize when private lead service line replacements occur for logistical and financial reasons. It seems to be a given that the two top priorities for

replacements should be (a) schools and day care facilities, and (b) private replacements done in conjunction with road projects.

The model ordinance addresses this issue by using a written notification from the utility to trigger a property owner's timeline for completing a private replacement. One, quicker, timeline is established if the replacement is required because of a road project. Another, more extended, timeline is established for other private replacements that are not being done in conjunction with a road project. This process provides flexibility for the utility to coordinate private replacements with public projects and available funding.

2. *Inventory of private lead service lines.*

A utility often does not know the construction material of the private service lines connected to its system and an inventory of this information must be prepared. This is especially important if there is an upcoming road project where utility-owned lead service lines will be replaced. The model ordinance includes provisions that allow a utility access to property to inspect private service line material and provide for compliance options (like disconnection) should access be denied.

3. *Private replacements done in conjunction with utility replacements.*

It is likely that, at least initially, most private replacements will be done in conjunction with utility-owned replacements done as part of a road project. Section 196.372(2)(b) requires that the private-side water service line be replaced at the same time as the utility-side service line. This can be difficult to accomplish since in most cases the utility service line is being replaced by a utility contractor and the private service line is being replaced by a different private plumbing contractor. The model ordinance provides that the utility is to provide the property owner of notice of the anticipated replacement at least 45 days prior to the expected date of replacement. The property owner then has 30 days to make arrangements for the private replacement on that date and to notify the utility that arrangements have been made. We understand that in practice it will likely be more difficult to coordinate the public and private replacements. If utilities have experience with ideas that have worked for them, we would like to hear about them.

4. *Failure to replace private service lines within deadline.*

It is especially important that private lead service lines be replaced if utility-owned lead service lines are replaced. If a property owner fails to do so, a utility may need to take steps to mandate compliance. The model ordinance provides that if a property owner fails to replace their private lead service line as required, the utility can disconnect or refuse to connect utility service. This provision will likely need to be included in the utility's tariffs in order to be enforceable, but based upon the Public Service Commission's discussion in the Kenosha case, we believe it is likely that the PSC will agree to this type of tariff.

5. *Financial assistance program – amount of assistance provided.*

Section 196.372(3)(e) requires that (a) if a utility provides "financial assistance" as a specific dollar amount that dollar amount must be the same for each owner, and if the utility provides "financial assistance" as a specific percentage of cost, that percentage of cost must be the

same for each owner; and (b) grants are limited to no more than one-half of the total replacement cost. Utilities have indicated an interest in providing grants with a maximum dollar cap. The model ordinance is drafted so that “financial assistance” – in the form of a combined grant and loan – of 100% is provided. The grant covers one-half of the replacement cost up to a maximum of a set dollar amount, and a loan is available for the rest. Kenosha’s program provides a grant of 50% up to a maximum dollar amount of \$2,000, and a loan for the rest, and the PSC found that this program satisfied the statutory requirement of providing each property owner the same percentage of financial assistance.

6. *Financial assistance program – costs covered.*

The model ordinance only provides financial assistance for eligible replacement costs. Eligible replacement costs include the cost of labor and materials to remove and replace a private lead service line, including the cost to excavate, and backfill and replace the turf over the excavation. Costs over and above this are not eligible for financial assistance. Under the model ordinance, ineligible costs include costs for property modification needed to facilitate the replacement of the private line, including but not limited to interior or exterior renovations of buildings or structures to facilitate access to the private line or changes to interior plumbing past the inlet to the property owner's water meter; restoration of any sidewalk, driveway, foundation, or any other surface that is disrupted as part of the replacement; or restoration or replacement of any trees, bushes, or any other landscaping damaged or removed as part of the replacement.

7. *Financial assistance program – creation of pre-qualified plumbing contractor list.*

The model ordinance anticipates that the utility will establish a pre-qualified plumbing contractor list for private replacements. This list will provide property owners with information on plumbing contractors willing and able to do private replacement work, and provide a vehicle for the utility to inform contractors about the private lead service line replacement program, the need for coordination, and the requirements related to financial assistance. The model ordinance is based on the expectation that a private property owner will separately contract with a private plumber for the replacement of the private service line. The private work will not be undertaken by the utility. There are numerous benefits from keeping the utility out of the contractual relationship regarding the private replacement work, principal among which is to limit municipal liability for how the private replacement work and restoration is conducted.

8. *Financial assistance program – two bid requirement.*

The model ordinance requires a property owner obtain at least two bids from pre-qualified plumbing contractors for the replacement work. The amount of financial assistance available will be based on the lowest bid received from a pre-qualified contractor. A property owner is eligible for a grant for one-half of the cost up to the maximum grant amount, if one is established, and is eligible for a loan to cover the rest of the costs.

9. *Financial assistance program – loan terms.*

Providing a property owner a loan to cover the costs of private lead service line replacement requires that loan terms be determined, a loan agreement be entered into, and loan installments be collected. The loan terms (i.e., available length and interest rate) are included in the

ordinance, and will be part of the program reviewed by the PSC. A loan agreement should be entered into that sets out the terms for the loan for the specific property with the replacement work. Act 137 provides two different ways loan repayments can be collected. Loan repayments can be collected along with utility bills (and delinquent repayments can be placed on the property tax roll under Wis. Stat. § 66.0809), or they can be collected as special charges under Wis. Stat. § 66.0627(8).

The model ordinance provides for the annual collection of loan repayments as special charges. We see several benefits in collecting loan repayments annually as special charges. First, the administrative work associated with collecting loan repayments is simplified because repayments are rolled into the property tax collection process which is well-established and administered primarily by the city treasurer. Second, collecting loan repayments annually as special charges should provide a strong argument that the provision of these loans is not subject to complex consumer protection requirements. The provision of consumer loans (even by a municipality) is highly regulated and subject to numerous disclosure obligations. Loans provided by a utility and covered by an approved tariff are typically exempt from these regulations. Loans collected through the property tax process – like special charges are collected – are also typically exempt from these regulations. Third, the process for handling delinquent payments under the property tax process (i.e., if special charges are used) is set out in statute.

10. *Financial assistance – application and agreement.*

The model ordinance requires a property owner to apply for financial assistance and identify whether the property owner requests both a grant and loan, or just a grant. An agreement between the utility and property owner is to set out the terms of the financial assistance.

11. *Financial assistance – payment to plumbing contractor.*

The model ordinance provides that after the replacement work is done, the contractor invoice and documentation of satisfactory completion should be provided to the utility. Upon receipt of this information, the utility is to pay the plumbing contractor directly – up to the amount of the financial assistance provided. The property owner is to pay any invoiced amount that exceeds the amount of financial assistance provided.

12. *PSC approval of financial assistance program.*

The statute requires that the water utility obtain approval for its financial assistance program. One of the items the PSC will review is the municipality's ordinance establishing the financial assistance program. If you are interested in establishing a financial assistance program to help property owners pay for the cost of replacing private lead service lines, the first step to take will be to have your common council or village board adopt an ordinance, like the model ordinance, authorizing the utility to establish such a program.

USER NOTES:

1. This model ordinance assumes that the user will create a new section on replacement of lead service pipes under an existing chapter. If adopted as a new chapter, replace "Section" with "Chapter", "Subsection" with "Section", "Paragraph" with "Subsection", and "Subparagraph" with "Paragraph" throughout.
2. This model ordinance assumes that the user is a City. If the user is a Village, replace "City" with "Village" and "City Council" with "Village Board" throughout.
3. If a Village, under Section B "Authority" the ordinance is enacted pursuant to §§ 61.34(1), 66.0627(8), and 196.372, Wisconsin Statutes.
4. Italicized, bolded, and underlined text in brackets should be replaced by the user with appropriate information in a standard font. (E.g., "[***the Utility's Name***]" with "Kenosha Water Utility".)
5. Under paragraph D.3., include only one of the two options for the replacement deadline.
6. This model ordinance does not address the replacement of galvanized pipe.

**AN ORDINANCE CREATING SECTION _____
REPLACEMENT OF LEAD SERVICE PIPE**

ORDINANCE

The Common Council of the City of _____, _____ County, Wisconsin, hereby ordains as follows:

SECTION 1. That Section _____ is hereby created as follows:

_____ – **Replacement of lead service pipe.**

- A. **Purpose.** Lead service lines have the potential to leach lead into drinking water. Disturbing or reconnecting to an existing lead service line may increase lead levels in drinking water. Elevated lead levels in drinking water have been determined to cause health problems in young children, pregnant women and their unborn children, and are also potentially harmful to adults. The Common Council therefore finds it in the public interest to establish a comprehensive program for removing and replacing lead service lines within and connected to the City's water distribution system.
- B. **Authority.** This Ordinance is enacted pursuant to §§ 62.11(5), 66.0627(8), and 196.372, Wisconsin Statutes.
- C. **Definitions.** This Ordinance shall be interpreted so that the intent and purpose described may be accomplished. Words and phrases shall be understood according to common meanings unless the contrary is clearly indicated. Definitions of terms used in this Section are listed below:
1. **Distribution System.** The network of water pipes, including mains and service lines, owned and operated by Utility.
 2. **Lead Service Line or LSL.** A Water Service Line constructed of lead.

3. **Non-Compliance Penalties.** Penalties that may be imposed by the City for failure to take action required by this Ordinance as provided in Subsection I.
4. **Plumbing Contractor.** A person, or a firm, corporation, or other entity owned by or employing a person, who is licensed by the State of Wisconsin to perform plumbing work in Wisconsin.
5. **Pre-qualified Plumbing Contractor.** A Plumbing Contractor that has been placed on Utility's Pre-qualified Plumbing Contractor list, pursuant to pre-qualification standards and procedures established by Utility.
6. **Private Lead Service Line or Private LSL.** A Private Service Line constructed of lead.
7. **Private LSL Replacement Costs.** The labor and material costs incurred to remove and replace a Private LSL, including costs to excavate, and backfill and replace the turf over the excavation. Private LSL Replacement Costs do not include costs for property modification needed to facilitate the replacement of the Private LSL, including but not limited to interior or exterior renovations of buildings or structures to facilitate access to the Private LSL or changes to interior plumbing past the inlet to the Property Owner's water meter; restoration of any sidewalk, driveway, foundation, or any other surface that is disrupted as part of the replacement; or restoration or replacement of any trees, bushes, or any other landscaping damaged or removed as part of the replacement.
8. **Private Service Line.** The portion of a Water Service Line owned by a Property Owner which extends from the outlet of the curb stop to the inlet of the Property Owner's water meter. The outlet joint of the curb stop is considered to be part of the Private Service Line.
9. **Property.** Real property as defined in § 70.03, Wisconsin Statutes.
10. **Property Owner.** A person, partnership, association, or body politic or corporate, including an estate or trust, having an ownership interest, legal or equitable, in a Property, except that a purchaser of a Property under a land contract shall be considered the Property Owner of the Property.
11. **PSC.** Public Service Commission of Wisconsin.
12. **Utility.** The [the Utility's Name], the City utility responsible for operating the City's public water system.
13. **Utility Lead Service Line or Utility LSL.** A Utility Service Line constructed of lead.
14. **Utility Manager.** The general manager of the Utility or his or her designee.
15. **Utility Service Line.** The portion of a Water Service Line owned by the Utility which extends from the water main to the outlet of the curb stop, including the curb stop.
16. **Water Service Line.** The water service line that extends from the Utility's water main to the inlet of the Property Owner's water meter. A Water Service Line includes both a Private Service Line and a Utility Service Line.

D. **Lead Service Line Replacement Requirement.**

1. As provided in this Ordinance, all existing Lead Service Lines which are part of or connected to the Distribution System shall be replaced with Water Service Lines

constructed of materials that comply with the Wisconsin plumbing code, chs. 381-387, Wis. Admin. Code, as amended.

2. Where both a Utility Service Line and a connected Private Service Line are constructed of lead, the replacement of both sides of the Water Service Line shall be completed at the same time following the process set out in Subsection F.
3. Where a Private Lead Service Line is not connected to a Utility Service Line constructed of lead, the replacement of the Private LSL shall be completed **designate a timeframe, e.g., "within 36 months of notification by Utility" / under a schedule established by Utility** following the process set out in Subsection G.
4. As of **the effective date of this Ordinance**, no person, other than a Utility employee or agent, may connect a Private LSL to a non-lead Utility Service Line, except as a temporary emergency repair.

E. Identification of Private Lead Service Lines.

1. Utility will create a contact list of properties that potentially have Private Lead Service Lines based on the building's date of construction.
2. Upon request, a Property Owner of Property connected to the Distribution System shall permit an authorized Utility employee or representative access to the Property to inspect the connection between the Private Service Line and the Property Owner's water meter in order to confirm the Private Service Line's material of construction.
3. If a Property Owner does not provide access to the Property for such inspection, the Utility Manager is authorized to take the steps necessary to complete the inspection and confirm the Private Service Line's material of construction, and to issue or seek the issuance of Non-Compliance Penalties.
4. As an alternative to Utility inspection, a Property Owner may arrange to have a Plumbing Contractor perform the inspection and provide inspection results to Utility. This option is not available if Utility is conducting a Utility LSL replacement project under the process set out in Subsection F.
5. If Utility confirms that a Private Service Line is constructed of lead, Utility will notify the Property Owner of the requirement to replace the Private Lead Service Line following the steps detailed in Subsections F or G, depending on the circumstance.
6. Utility shall create and maintain records of all inspected, identified, and replaced Private Service Lines in the City, until such time that no Lead Service Lines exist.

F. Replacement of Private Lead Service Lines in conjunction with replacement of Utility Lead Service Lines.

1. Utility LSLs will be replaced as part of a City street reconstruction project if possible. Before undertaking a project which will replace Utility LSLs, Utility shall identify those Properties that connect to the Utility LSLs planned for replacement.
2. Prior to scheduling the replacement of Utility LSLs, a Utility employee proficient at determining lead service line materials shall inspect each connected and affected Private Service Line to determine whether it is constructed of lead.

3. If a Private Service Line is found to be constructed of lead, Utility will notify the Property Owner of that fact in writing. Utility will also notify the Property Owner that the Property Owner must replace the Private LSL in conjunction with Utility's scheduled replacement of the Utility LSL that is connected to that Private LSL, and that failure to do so may subject the Property Owner to Non-Compliance Penalties.
4. At least forty-five (45) days prior to the date of the scheduled replacement of a Utility LSL, Utility shall notify the Property Owner with a connected Private LSL in writing of the scheduled date of replacement of the Utility LSL.
5. The Property Owner must schedule the replacement of the Private LSL to coincide with the scheduled replacement of the Utility LSL. Within thirty (30) days of receiving the replacement notice, the Property Owner shall notify Utility that the replacement of the Private LSL has been scheduled and provide the name of the Plumbing Contractor who will complete the replacement work.
6. Private LSL replacement work must be completed at the same time as the Utility LSL is replaced. An extension of time may be allowed by the Utility Manager only if the Property Owner demonstrates that there is a compelling need for an extension and that an extension will not create an imminent threat to the health, safety, or welfare of the public.
7. Failing to replace a Private LSL as required by this Ordinance may result in the issuance of Non-Compliance Penalties.
8. A Property Owner who replaces a Private LSL under this Subsection may be eligible to receive financial assistance under the program described in Subsection H.

G. Replacement of Private Lead Service Line where only the Private portion of the Water Service Line is Lead.

1. If Utility confirms that a Private Service Line is constructed of lead and notifies the Property Owner of that fact in writing as provided by Subsection E, the Property Owner must, unless Subsection F applies, arrange for the replacement of the Private LSL to be completed by the deadline established in Paragraph D.3. An extension of time may be allowed by the Utility Manager only if the Property Owner demonstrates that there is a compelling need for an extension and that granting an extension will not create an imminent threat to the health, safety, or welfare of the public.
2. Failing to complete the replacement of the Private LSL within the required time period may result in the issuance of Non-Compliance Penalties.
3. A Property Owner who replaces a Private LSL under this Subsection may be eligible to receive financial assistance under the program described in Subsection H.

H. Financial Assistance for Private LSL Replacements.

1. Development of Financial Assistance Program. Utility is authorized to establish a program to provide eligible Property Owners with financial assistance to replace Private LSLs. The terms of the Utility's financial assistance program must be consistent with this Subsection. The Utility shall seek PSC approval of the financial assistance program. Once PSC approval of the program has been received and funding is available, Utility may provide eligible Property Owners with financial assistance.

2. Grant Available. Utility may provide an eligible Property Owner with a grant to pay for up to fifty percent (50%) of the Property Owner's Private LSL Replacement Costs as determined under Paragraph 7. The grant may not exceed a maximum amount of [Maximum Dollar Amount].
3. Loan Available. Utility may loan an eligible Property Owner funds to pay the Property Owner's remaining Private LSL Replacement Costs as determined under Paragraph 7, after the deduction of any grant monies awarded under Paragraph 2.
4. Loan Terms.
 - a. Utility may provide an eligible Property Owner a [loan length e.g. "60-month" or "120-month"], [interest rate e.g. "zero" or "three"] percent interest, loan.
 - b. A Property Owner shall repay the loan in equal annual installments as provided in the Utility's tariffs filed with the PSC. A loan payment shall be placed on the tax roll as a special charge as provided in Wis. Stat. § 66.0627.
 - c. The amount loaned to a Property Owner may not be forgiven by Utility or the City.
5. Eligibility for Financial Assistance. A Property Owner is eligible for financial assistance under this Subsection if the Property Owner satisfies both of the following criteria:
 - a. The Property Owner alone, or collectively with others, either owns the entire fee simple title to, or else is the purchaser under a land contract of, the Property served by the Private LSL.
 - b. The Property Owner's Private LSL is attached to either a Utility Service Line that is not a LSL, or a Utility LSL scheduled for replacement and for which the Property Owner has been notified by Utility of such scheduled replacement.
6. Application for Financial Assistance. A written application for financial assistance must include the following:
 - a. A completed application on a form furnished by Utility signed by the eligible Property Owner. The completed application form shall include a certification by the Property Owner that attests that the Property Owner alone, or collectively with others, owns the entire fee simple title to the Property served by the Private LSL.
 - b. Copies of all, but no less than two, written quotes obtained by the Property Owner from different Pre-Qualified Plumbing Contractors for the replacement of the Property Owner's Private LSL. Quotes shall either be limited to, or otherwise clearly identify the amount related to, Private LSL Replacement Costs as defined by this Ordinance.
7. Limitations on Amount of Financial Assistance.
 - a. A Property Owner will be eligible for financial assistance based on the lowest bid amount included in the written quotes submitted with the application. A Property Owner is responsible for and will not receive financial assistance for any Private LSL Replacement Costs that exceed the amount of the lowest bid,

unless an extraneous circumstance exists that will require the approval of the Utility Manager.

- b. Notwithstanding Subparagraph a. above, the total amount of money provided by Utility as financial assistance in the form of a grant and loan may not exceed a Property Owner's actual Private LSL Replacement Costs.
8. Review of Application. After a complete application for financial assistance is received, Utility shall review the application for completeness. If the application is complete, Utility shall notify the Property Owner of the amount of financial assistance available. If the application is incomplete, Utility shall notify the Property Owner of that fact and the information needed to complete the application.
9. Agreement. Financial assistance shall only be provided after a Private LSL replacement agreement is entered into by Utility and Property Owner, on a form provided by Utility.
10. Payment of Financial Assistance. Upon completion of the Private LSL replacement, the Property Owner shall provide Utility with a copy of the invoice from the Plumbing Contractor. Upon proof of completion satisfactory to the Property Owner and Utility, Utility shall directly pay the Plumbing Contractor, on behalf of the Property Owner, the amount of money approved by Utility for financial assistance for replacement of the Private LSL. Utility shall provide the Property Owner with documentation of such payment.
11. Appeal of Adverse Decision. Disputes regarding payment of financial assistance may be appealed to the [Municipal or Utility Appeals Board or Commission].

I. **Enforcement.**

1. General Non-Compliance Penalties. If anyone fails to take any action required by this Ordinance, the City or Utility or both may impose violation citations and penalties prescribed by City ordinances.
2. Authority to Discontinue Service. If a Property Owner refuses to provide access as required by this Ordinance, Utility may in accordance with its water utility tariffs discontinue water service to such Property until access is provided so that a Private Service Line's material of construction can be identified. If a Property Owner fails to replace a Private LSL as required by this Ordinance, Utility may in accordance with its water utility tariffs discontinue water service to such Property until the Private LSL is replaced.

SECTION 2. Severability. If any section, subsection, paragraph, or portion of this Ordinance is for any reason determined to be invalid or unconstitutional by the decision of a court of competent jurisdiction, that section, subsection, paragraph, or portion shall be deemed severable and shall not affect the validity of the remaining sections, subsections, paragraphs, or portions of this Ordinance.

SECTION 3. Effective Date. This Ordinance shall become effective upon passage and publication as provided by law.

- (4) Testing. The water service installation shall be tested for leaks prior to the placement of backfill and before the curb box is installed. The corporation stop at the water main shall be turned on and the curb stop opened until full flow of water is obtained. The curb stop shall then be turned off and all joints and couplings checked for leaks. Upon acceptance of the service piping, the remainder of the installation work shall be completed.

- F. Inspection. No plumber shall cover or permit the covering of any water service line until the installation has been inspected and approved by a representative of the Fond du Lac Water Utility.

G. Private lead water service line replacement.

[Added 2-8-2017 by Ord. No. 3629]

- (1) Purpose and findings. The City Council finds the purpose and findings of this ordinance to be as follows:

- (a) To ensure that the water quality at every tap of Fond du Lac Water Utility customers meets the water quality standards specified under the federal Safe Drinking Water Act;^[1]

[1] *Editor's Note: See 42 U.S.C. § 300f.*

- (b) Disturbance of lead water service lines, particularly partial lead service line replacement, has been shown to increase lead levels in drinking water;
- (c) Reconnection of existing lead water service lines to new water service lines has been shown to increase lead levels in drinking water;
- (d) Full replacement of lead service lines, as opposed to partial replacement, can reduce exposure to lead in drinking water; and
- (e) Because of the significant risks to public health and safety posed by disturbance of lead water service lines and reconnection of lead to other service lines, the City has a strong public health interest in remediating privately owned lead water service lines under certain circumstances.
- (f) All existing lead service lines connected to the Fond du Lac Water Utility distribution system shall be replaced with water service lines constructed of materials authorized under the State Plumbing Code.

[Added 3-13-2019 by Ord. No. 3689]

- (2) Authority. This subsection is enacted pursuant to §§ 62.11(5), 66.0627(8), 196.372, and 281.12(5), Wis. Stats., Chapter SPS 384 of the Wis. Admin. Code and as mandated by 42 U.S.C. § 300g of the federal Safe Drinking Water Act, enforced by the EPA and the WDNR.

[Amended 3-13-2019 by Ord. No. 3689]

- (3) Definitions. As used in this subsection, the following terms shall have the meanings indicated:

[Amended 3-13-2019 by Ord. No. 3689]

DIRECTOR and DIRECTOR OF PUBLIC WORKS

The Director of Public Works or his/her designee, which may include the Water Utility Manager.

DISTRIBUTION SYSTEM

The network of water pipes, including mains and water service lines, operated by the Utility.

[Added 3-13-2019 by Ord. No. 3689]

EPA

The United States Environmental Protection Agency.

FEDERAL SAFE DRINKING WATER ACT

42 U.S.C. §§ 300f through 300j-26.

LEAD WATER SERVICE LINE

A water service line made of lead which connects the water main to the building inlet and any lead pigtail, gooseneck or other fitting which is connected to such lead line. This definition also includes galvanized pipe water service lines that become contaminated by lead as they are connected to and fed by a utility-owned portion of a water service line containing lead.

[Amended 3-13-2019 by Ord. No. 3689]

LICENSED PLUMBER

Any persons licensed as such by the Department of Safety and Professional Services pursuant to Ch. 145, Wis. Stats.

PREQUALIFIED PLUMBING CONTRACTOR

A licensed plumber who has filled out all prequalification forms provided by the City and has been approved by the City.

[Amended 3-13-2019 by Ord. No. 3689]

PRIVATELY OWNED PORTION OF A WATER SERVICE LINE

The section of a water service line from the outlet joint of the curb stop to the outlet of the water meter outlet valve, with the exception of the water meter itself, regardless of the ownership of the property upon which the line is located.

[Amended 3-13-2019 by Ord. No. 3689]

UTILITY-OWNED PORTION OF A LEAD WATER SERVICE LINE

The section of a water service line from the main to the outlet joint of the curb stop.

[Amended 3-13-2019 by Ord. No. 3689]

WATER UTILITY

The City of Fond du Lac public water utility system, also known as "Fond du Lac Water Utility."

WDNR

The Wisconsin Department of Natural Resources.

- (4) Replacement requirement. The privately owned portion of a lead or galvanized water service line shall be replaced whenever any of the following occurs, subject to the exceptions in Subsection **G(8)**:

[Amended 3-13-2019 by Ord. No. 3689]

(a)

The utility-owned portion of a lead water service line is being replaced on an emergency basis because a leak or failure has been discovered on either the privately owned portion or utility-owned portion of the lead water service line.

- (b) The utility-owned portion of a lead water service line is being replaced as a planned utility project.

- (5) Notice. The City will provide notices to property owners as specified below:
[Amended 3-13-2019 by Ord. No. 3689]

- (a) Leak or failure emergency replacement. In the event of a water service line leak or failure under Subsection **G(4)(a)**, the Director shall provide written notice of the replacement requirement to the property owner upon the Director's determination that replacement of the water service line is required.

[1] If the leak or failure originates from the privately owned portion of the lead water service line, the owner shall immediately notify the Utility.

- (b) Planned replacement. In the event of a planned replacement under Subsection **G(4)(b)**, the Director shall provide written notice of the replacement requirement to the property owner at least 45 days prior to the commencement of the planned replacement of the utility-owned portion of the lead water service line.

- (6) Timing of replacement.
[Amended 3-13-2019 by Ord. No. 3689]

- (a) Leak or failure emergency replacement. Property owners who are required to replace a privately owned portion of a lead service line due to a leak or failure emergency replacement under Subsection **G(4)(a)** will replace their lead service line as soon as reasonably practical but no later than 30 days of receiving written notice under Subsection **G(5)(a)**.

- (b) Planned replacement. Property owners who are required to replace a privately owned portion of a lead service line due to a planned replacement under Subsection **G(4)(b)** must schedule replacement of said lead service line within 30 days of receiving written notice under Subsection **G(5)(b)**. Generally, the scheduled replacement of the privately owned portion of the lead water service line will coincide with the scheduled replacement of the utility-owned portion of the lead water service line.

- (7) Financial Assistance for replacement of privately owned portions of lead water service lines. The City may provide financial assistance to property owners who are required to replace a privately owned portion of a lead water service line pursuant to Subsection **G(4)** as allowed under § 196.372, Wis. Stats., or under applicable grant or similar funding rules. The City may provide eligible property owners with a grant for up to 50% of the cost of the privately owned portion of the lead water service line, but not to exceed a maximum grant amount.
[Amended 3-13-2019 by Ord. No. 3689]

- (a) Financial assistance granted to eligible property owners will be in accordance with the following priority:

[1] Properties with leaking or failing privately owned or utilityowned lead water service lines.

- [2] Properties where the utility is replacing the utility-owned portion of the water service line on a planned basis.
 - [3] Properties with licensed child care facilities and schools.
 - [4] Properties where children under the age of seven or pregnant women reside.
 - [5] All remaining properties with privately owned lead water service lines.
- (b) Eligibility criteria. A property owner will be eligible for the City subsidy provided in Subsection **G(7)** if the property owner submits to the City documentation that all of the following conditions are met:
- [1] The owner agrees to have the work performed by a prequalified plumbing contractor in accordance with all applicable state, federal, local and utility regulations.
 - [2] The owner signs a hold harmless agreement holding the City harmless and free from any claim or liability for damage done in performance of the water service line replacement work.
 - [3] If necessary, the owner executes a temporary right of entry and construction easement authorizing the City and its contractor access into the dwelling as needed in order to complete the connection.
 - [4] The property qualifies for the subsidy under the applicable grant or similar funding rules, when applicable.
- (8) Exceptions.
[Amended 3-13-2019 by Ord. No. 3689]
- (a) The Director may extend the time for replacement of the privately owned portion of a lead water service line required under Subsection **G(4)** if the property owner so requests and demonstrates a compelling need, unless the Director determines that doing so will create an imminent threat to the health, safety or welfare of the public.
 - (b) Guidelines for the consideration of requests under Subsection **G(8)(a)** will be established by the Fond du Lac Water Utility, the Director and the City Manager.
- (9) Right of entry. Upon request, a property owner of any property connected to the utility's distribution system will permit an authorized utility representative access to the property to inspect the privately owned portion of a water service line.
[Amended 3-13-2019 by Ord. No. 3689]
- (10) Enforcement. If the owner fails to comply with any of the provisions set forth in this subsection, the Director may pursue one or more of the following actions:
[Amended 3-13-2019 by Ord. No. 3689]
- (a) The Director may apply for and obtain an appropriate court-issued warrant pursuant to §§ 66.0119 and 196.171, Wis. Stats., to gain access to the property and have the required work performed pursuant to § 281.45, Wis.

Stats. The cost of this work may be assessed and collected as a special assessment/charge on the property.

- (b) The Director has the authority pursuant to § PSC 185.37, Wis. Adm. Code, to discontinue water service to the property owner.

(11) Violations and penalties. Except as otherwise specifically provided, any person who violates any provision of this chapter may be subject to a penalty as provided in § ~~1-4~~ of this Code.

[Amended 3-13-2019 by Ord. No. 3689]

APPENDIX A

Ordinance 21.11 Lead Water Service Line Replacement



21.11 LEAD WATER SERVICE LINE REPLACEMENT. (Cr. GO 16-16)

- (1) Intent and Purpose. Lead service lines pose a threat to the public health based on the potential for leeching of lead into drinking water. The Common Council of the City of Green Bay therefore finds that it is in the public interest to establish a comprehensive program for the removal and replacement of lead pipe water service lines in use within the Green Bay Water Utility system and to that end declares the purposes of this ordinance to be as follows:
- (a) to ensure that the water quality at every tap of Green Bay Water Utility customers meets the water quality standards specified under the federal Safe Drinking Water Act; and
 - (b) to reduce the lead in City drinking water to meet EPA standards in City drinking water for the health of City residents; and
 - (c) to meet the WDNR requirements for local compliance with the EPA's Lead and Copper Rule; and
 - (d) to effect the replacement of all high risk lead service lines within one (1) year of their discovery and the replacement of all remaining lead pipe water service lines in use in the City within ten (10) years.
- (2) Authorization. This ordinance is enacted pursuant to Sec. 62.11(5) and Sec. 281.12(5), Wis. Stats., and as mandated by 42 U.S.C. Sec. 300g, of the Federal Safe Drinking Water Act, enforced by the EPA and the WDNR.
- (3) Rules of Construction and Definitions. This ordinance and all rules and orders promulgated under this ordinance shall be liberally construed so that the purposes enumerated in subsection (1) may be accomplished. Words and phrases shall be construed and understood according to their common and usual meaning unless the contrary is clearly indicated. Within this section:

“Child care facility” means any state licensed or county certified child care facility including, but not limited to, licensed family child care, licensed group centers, licensed day camps, certified school-age programs and Head Start programs.

“City” means City of Green Bay.

“Confirmed water sample test” means a tap water analysis completed after a prior analysis that indicated lead levels at the EPA Action level and conducted in accordance with the Lead and Copper Rule, with Sec. NR 809.547, Wis. Adm. Code., and with instructions provided by the Water Utility.

“Customer-side water service line” means the water conduit pipe running from the customer's meter to the curb stop which is the Water Utility shut-off valve usually located behind the curb on public property.

“EPA” means the U.S. Environmental Protection Agency.

“EPA Action level” means a concentration of 15 or more parts per billion (ppb) of lead as measured at a customer's tap.

“Federal Safe Drinking Water Act” means 42 U.S.C.A. Sec. 300f-300j-26.

“General Manager” means the Water Utility General Manager.

“High risk lead service” means a lead customer-side water service line identified in Subsection (5) and any lead customer-side water service line where a confirmed water sample test of a customer's tap water reveals a lead concentration at or above the EPA Action level.

“Lead and Copper Rule” means the rule created by the EPA and adopted by the WDNR in response to the passage of the Safe Drinking Water Act, which provides maximum contaminant level goals and national primary drinking water regulations (NPDWR) for controlling lead and copper in drinking water. NPDWR regarding approved treatment techniques include corrosion control treatment, source water treatment, lead

service line replacement and public education. The rule may be found in 56 FR 26460, 40 CFR part 141.80-141.90, and Chapter NR 809.541-NR 809.55, Wis. Adm. Code.

“Licensed plumber” means a person, firm, corporation or other entity licensed to perform plumbing work in the City by the State of Wisconsin.

“Ppb” means parts per billion.

“Property” means any possessory interest, legal or equitable, in real property including an estate, trust, or lien, and any buildings, structures and improvements thereon.

“Service replacement schedule” means the schedule adopted by the Water Utility Commission for the replacement of lead customer-side water service lines based on community resources, on availability of licensed plumbers and Water Utility resources to complete service line replacements, and on physical location of properties with lead customer-side water service lines. Based on the above factors, customers will be assigned a time period within the schedule for replacing their lead customer-side water service line. In no case shall a customer on this schedule have less than thirty (30) days from the date of notification pursuant to Subsection (6) for the replacement of any lead customer-side water service line.

“Water Utility” means the City of Green Bay public water utility system, also known as Green Bay Water Utility.

“WDNR” means the Wisconsin Department of Natural Resources.

- (4) Survey and Self Inspections. Upon notice from the Water Utility, any person who owns, manages or otherwise exercises control over a property within the Green Bay Water Utility system shall allow the Water Utility to inspect the customer-side water service line or have the customer-side water service line inspected by a licensed plumber to determine whether the service line is lead, copper, cast iron, galvanized steel, plastic or other material.

(5) Lead Service Line Replacement.

- (a) All of the following service line material combinations are subject to partial or full replacement with galvanized, copper, and/or plastic service lines under this ordinance as identified:

Water Utility-Side	Customer-Side	Side Requiring Replacement
Lead	Lead	Both
Lead	Galvanized	Water Utility Only
Lead	Copper	Water Utility Only
Lead	Plastic	Water Utility Only
Copper	Lead	Customer Only
Plastic	Lead	Customer Only

No other service line material combinations have been identified which require replacement under this ordinance.

- (b) All lead water service lines must be replaced regardless of whether on the Water Utility-side or the customer-side. If a customer-side lead water service line is connected to a Water Utility-side lead water service line, both lines must be replaced at the time Water Utility is replacing its side of the lead water service line. As of the effective date of this ordinance, no lead service line will be allowed to connect to a Water Utility line once replaced.

- (6) Replacement Priority. Owners, managers or persons otherwise exercising control over properties within the Green Bay Water Utility system with customer-side lead water service lines shall be required to replace the customer-side water service lines according to the following order of priority and based on the replacement schedule established by the Water Utility Commission:

- (a) Schools or child care facilities.

- (b) Properties at which a confirmed water sample test at the tap shows lead concentration at 15 or more ppb.
- (c) Properties where more than twenty (20) people regularly have access to drinking water during any eight-hour period.
- (d) Properties where the Water Utility is replacing its side of the lead water service line to the property.
- (e) All other properties not covered in Subsections (5)(a)-(d).

Notwithstanding the schedules set forth herein and any limitations on funding sources which may be made available to either the Water Utility or the customer, all customer-side water service lines identified herein shall be replaced no later than December 31, 2025.

- (7) Scheduling. Replacement of customer-side lead pipes that are connected to a Water Utility-side lead service line must be completed at the time the Water Utility-side service line is replaced. Scheduling of all such replacements for customer-side lead pipes must be coordinated between the homeowner's contractor and the Water Utility within thirty (30) days of receipt of notice that the Water Utility-side water service lines are scheduled to be replaced. Additional time to schedule the customer-side lead pipe replacement may be granted by the General Manager of the Water Utility for good cause.
- (8) Financing of Replacement. In the event funding is made available for this purpose through any means, an eligible property owner may apply to the City for financing of any portion of the cost of replacing a lead customer-side water service line under the terms of such financing program. Disputes regarding eligibility for financing may be appealed to the Water Utility Commission, unless otherwise noted in the funding program. As a condition of receiving any available financing from the City, the property owner must provide adequate documentation demonstrating that the contractor and/or plumber completing the work anticipated hereunder is properly certified and/or licensed by the State of Wisconsin and/or the City, as appropriate.
- (9) Exceptions.
 - (a) The Water Utility may modify the inspection requirement set forth under Subsection (4) if the customer so requests and demonstrates compelling need.
 - (b) Upon the demonstration of compelling need, the owner of a single-family dwelling or a business to which the public has no access to tap water and with no more than five (5) employees, may request a change of schedule or an extension of time for compliance with Subsections (5)-(7).
 - (c) Guidelines for the consideration of requests under Subsections (9)(a) and (9)(b) will be established by the Water Utility Commission.
 - (d) Compliance deadlines will be calculated on a calendar year basis but may be deferred during the months of December - March on the basis of weather constraints.
- (10) Prohibitions. It shall be unlawful for any person to fail to comply with the applicable lead customer-side water service line replacement requirements as set forth herein or to violate any other provision of this ordinance.
- (11) Penalties. Any person who violates any provision of this ordinance may be subject to a forfeiture of no less than fifty dollars (\$50) and no more than one thousand dollars (\$1,000). Each day a violation continues may be considered a separate offense.
- (12) Severability. If any subsection or portion of this ordinance is for any reason held to be invalid or unconstitutional by a decision of a court of competent jurisdiction, that subsection or portion shall be deemed severable and shall not affect the validity of the remaining portions of the ordinance.

Sec. 13.066. - Lead water service line replacement.

- (1) *Intent and purpose* . The common council of the city finds that it is in the public interest to establish a comprehensive program for the removal and replacement of lead pipe water service lines in use within both the city utilities water system and in private systems and, to that end, declares the purposes of this section to be as follows:
 - (a) To ensure that the water quality at every tap of utility customers meets the water quality standards specified under the federal law;
 - (b) To reduce the lead in city drinking water to meet the Environmental Protection Agency (EPA) standards and ideally to a lead contaminant level of zero in city drinking water for the health of city residents;
 - (c) To eliminate the constriction of water flow caused by mineral rich groundwater flowing through lead water service pipes and the consequent buildup of mineral deposits inside lead pipes; and
 - (d) To meet the Wisconsin Department of Natural Resource (WDNR) requirements for local compliance with the Lead and Copper Rule (see 56 CFR 6460, 40 CFR parts 141.80—141.90 and Wis. Admin. Code §§ NR 809.541—809.55).
- (2) *Water system reconstruction* .
 - (a) *Inspection required* . The utility water superintendent or his designee shall inspect all private connections to the public water mains at the time that the utility system is to be reconstructed:
 1. Any existing private lead water lateral shall be considered illegal.
 2. Prior to the actual reconstruction of the water main and lateral system, each property owner shall be given written notice of the project. Such notice shall be made not less than 30 days prior to commencement of the actual work.
 3. As the reconstruction progresses, the utility water superintendent or his designee shall inspect each private water lateral connection for the presence of lead or, in the event inspection had been made previously, determine the condition of the private water connection from inspection records.
 - 4.

In the event that the private water lateral does not contain lead, the city shall reconnect the same to the utility system at an appropriate point near the right-of-way line.

5. In the event that the private water lateral is found to contain lead, the utility water superintendent or his designee shall immediately notify the owner in writing of that fact.
- (b) *Owner to replace lead service* . The owner shall, at the owner's expense, replace the lead service. In all cases, the city shall supply an appropriate connection point as part of its work. The owner may elect to:
1. Contract with licensed contractor to complete the repair. All work needed to accomplish the repair shall be done at the expense of the owner. Within 30 days of the giving of notice of deficiency under subsection (2)(a)5 of this section, proof of arrangements for repair shall be provided to the utility water superintendent or his designee and within 30 days of the giving of notice the repairs shall be completed.
 2. Have the city contractors, if available, complete the repair.
 - a. The city may, as part of any project, request unit bid prices for the calculation of the cost of making appropriate repair to the private building water laterals.
 - b. If available, and should the owner select this option, the owner will be charged the entire cost of making the repair. The owner may elect to pay the entire amount upon completion of the work, or the owner may request to be billed in eight annual installments or less plus interest, as provided in section 8.03(2)j of this Code.
- (3) *Authority to discontinue service* . As an alternative to any other methods provided for obtaining compliance with the requirements of this Code regarding replacement of illegal private water laterals, the utility may, no sooner than 30 days after the giving of notice as provided in subsection (2)(a)5 of this section, discontinue water service to such property served by illegal private water lateral after reasonable notice and an opportunity for hearing before the city utility commission under Wis. Stats. ch. 68.



ORDINANCE O-14-17

AN ORDINANCE CREATING PRIVATE LEAD AND GALVANIZED WATER SERVICE
LATERAL REPLACEMENT REQUIREMENT

Introduced by Alderman Nichols

The Common Council of the City of Menasha does ordain as follows:

SECTION 1: Amend the Code of Ordinances of the City of Menasha, Wisconsin by Creating Title 9, Chapter 2, SECS. 17 – 18 as follows:

WHEREAS, the Water and Light Commission has requested and recommended the Common Council adopt the attached ordinance mandating the replacement of private water service laterals containing lead or galvanized pipe at the time the Utility replaces its portion of the lead service in order to protect health and safety and to meet state and federal water quality requirements.

Title 9 – Public Utilities

CHAPTER 2

Water Utility Regulations

SEC. 9-2-17 WATER SERVICE LATERALS.

Every water service lateral connected to the Utility shall be made of suitable material as determined by the Water and Light Commission. No lead or galvanized service line will be allowed to connect to a Utility line once replaced.

SEC. 9-2-18 LEAD & GALVANIZED WATER SERVICE REPLACEMENT PROGRAM.

- (a) Intent and Purpose. The Common Council of the City of Menasha finds that it is in the public interest to establish a comprehensive program for the removal and replacement of lead and galvanized water service laterals in use within both the Menasha Utilities Water system (Utility) and in private systems and to that end declares the purposes of this ordinance to be as follows:
- (1) To ensure the water quality at every tap of Utility customers meets the water quality standards specified under the Federal Safe Drinking Water Act; and
 - (2) To reduce the lead in City drinking water to meet Environmental Protection Agency (EPA) standards and ideally to reduce lead contaminant level to zero in City drinking water for the health of City residents; and
 - (3) To eliminate the constriction of water flow caused by mineral rich surface water

- flowing through lead and galvanized water service pipes and the consequent buildup of mineral deposits inside lead and galvanized pipes; and
- (4) To meet the Wisconsin Department of Natural Resource (WDNR) requirements for local compliance with the Lead and Copper Rule (*see* 56CFR6460; Title 40 CFR part 141.80-141.91 and Chapter NR 809.54-809.55 Wisconsin Administrative Code).
- (b) Owner to Replace Lead and Galvanized Service. Existing lead and galvanized water service laterals connected to the Utility shall be replaced with water service laterals made of suitable material and at the owner's expense. Replacement shall be completed either before or in conjunction with the next Utility project in the area of the affected property.
- (1) Affected property owners may contract with a licensed contractor to complete the replacement. If the property owner selects this option, the lead or galvanized water service lateral shall be replaced before the start of or during construction of the Utility project; or,
 - (2) If available, affected property owners may have the Utility contractors complete the replacement.
 - A. The Utility may, as part of any water project, add an alternative to the Utility's contract requesting unit bid prices for the calculation of the cost for private lead or galvanized water service lateral replacement. This will include removing the entire lateral from the main to the inside of the house and replacing all lead or galvanized piping with suitable material.
 - B. If available, and should the property owner select this option, the property owner will be charged the entire cost of the removal and replacement. In addition, all restoration will be the responsibility of the property owner (for example, top soil, concrete, steps, asphalt, bushes, and porches).
- (c) Utility Water System Construction Requirements.
- (1) Notification to Property Owners. Property owners in the project area will be notified, in writing, of capital improvement projects involving public water mains or replacement of lead services on the Utility side. The notification shall be at least 30 days prior to commencement of the construction.
 - (2) Inspection Required. The Water Utility Manager or their designee shall inspect all private connections to the public water mains for the presence of lead or galvanized pipe prior to, if possible, or at the time that the Utility system is to be reconstructed and if unable to gain access for inspection, may pursue an inspection warrant.
 - A. In the event that a private water service lateral is found to contain lead or galvanized pipe the Water Utility Manager or designee shall immediately notify the owner, in writing, of that fact along with information about the Utility's Lead or Galvanized Water Service Lateral Replacement Program.
 - B. The affected property owner shall provide proof of arrangements for replacement of the lead or galvanized water service lateral to the Water Utility Manager or their designee within 30 days of the date of the notification letter.

SECTION 2: This ordinance shall become effective January 1, 2018.

13.08.350 - Replacement of lead service pipe.

A. Purpose. Lead service lines have the potential to leach lead into drinking water. Disturbing or reconnecting to an existing lead service line may increase lead levels in drinking water. Elevated lead levels in drinking water have been determined to cause health problems in young children, pregnant women and their unborn children, and are also potentially harmful to adults. The common council therefore finds it in the public interest to establish a comprehensive program for removing and replacing all lead service lines within and connected to the Sun Prairie Utilities water distribution system.

B. Authority. This section is enacted pursuant to Sections 62.11(5) and 196.372, Wisconsin Statutes.

C. Definitions. This section shall be interpreted so that the intent and purpose described may be accomplished. Words and phrases shall be understood according to common meanings unless the contrary is clearly indicated. Definitions of terms used in this section are listed below:

"Customer-side lead service line" or "customer-side LSL" means a customer-side service line constructed of lead.

"Customer-side service line" means the property owner's water service line from the outlet of the curb stop to the inlet of the customer's water meter. The outlet joint of the curb stop is considered customer-owned.

"Distribution system" means the network of water pipes, including mains and service lines, owned and operated by SPU.

"Lead service line" or "LSL" means a water service line constructed of lead. The term covers both a customer-side lead service line and/or a utility-side lead service line.

"Non-compliance penalties" means these may include, but not necessarily be limited to, violation citations, elimination of financial assistance, service disconnection, or other actions deemed permissible by the PSC and/or city.

"Plumbing contractor" means a person, firm, corporation or other entity licensed by the State of Wisconsin to perform plumbing work in the city.

"Property" means real property as defined in Section 70.03, Wisconsin Statutes.

"Property owner" means a person or legal entity, or his, her or its representative, having an ownership interest, legal or equitable, in the property. The term property owner includes an estate or trust.

"PSC" means Public Service Commission of Wisconsin.

"SPU" means the abbreviation will identify Sun Prairie Utilities, the city utility responsible for operating the city's public water system.

"Utility manager" means the general manager of the SPU or his or her designee.

"Utility-side lead service line" or "utility-side LSL" means A Utility-side Service Line constructed of lead.

"Utility-side service line" means the utility owned portion of the water service line from the water main to the outlet of the curb stop, including the curb stop.

D. Lead Service Line Replacement Requirement.

1. As provided in this ordinance, all existing lead service lines connected to the SPU distribution system shall be replaced with water service lines constructed of materials approved by the city.
2. Where both the customer-side and utility-side service lines are constructed of lead, the replacement of both sides of the service line shall be completed at the same time following the process set out in subsection F.

3. Where only the customer-side service line is constructed of lead, the replacement of the customer-side LSL shall be completed within thirty-six (36) months of notification by SPU following the process set out in subsection G.

E. Identification of Customer-Side Lead Service Lines.

1. SPU will create a contact list of homes that potentially have lead service lines based on the building's date of construction.
2. Upon notice from SPU, a property owner or customer who exercises control over a property connected to the SPU Distribution System shall schedule an inspection of the customer-side service line by an authorized SPU water operator in order to allow SPU to confirm the service line's material of construction. SPU may use various methods to contact the property owner or customer, including but not limited to phone calls, bill stuffers, emails, mailers, and door-to-door contact.
3. In the event that a property owner or customer refuses or fails to provide access to the interior of any improvement in order to accomplish such inspection, the utility manager shall take the steps necessary to complete the inspection and confirm the service line's material of construction, including and up to the issuance of non-compliance penalties.
4. As an alternative to SPU inspection, the property owner or customer may arrange to have a plumbing contractor perform the inspection and provide inspection results to SPU. This option is not available if a utility-side LSL replacement is being conducted.
5. Upon confirmation that a customer-side service line is constructed of lead, SPU will notify the property owner of the requirement to replace the customer-side lead service line following the steps detailed in subsections F or G, depending on the circumstance.
6. SPU shall create and maintain records of all inspected, identified and replaced lead service lines in the city, until such time that no lead service lines exist.

F. Replacement of Customer-Side Lead Service Lines in conjunction with replacement of Utility-Side Lead Service Lines.

1. Although not prevalent, the SPU distribution system contains a very small percentage of utility-side lead service lines. Utility-side LSLs will be replaced as part of a city street reconstruction project if possible. Before undertaking a project which will replace utility-side LSLs, SPU shall identify those properties that connect to the utility-side LSLs planned for replacement.
2. Prior to scheduling the replacement of utility-side LSLs, a certified SPU water operator or SPU employee proficient at determining lead service line materials, shall inspect all connected and affected customer-side service lines for the presence of lead.
3. If a customer-side service line is found to be constructed of lead, SPU will notify the property owner of that fact in writing. SPU will also notify the property owner that the property owner must replace the customer-side LSL in conjunction with SPU's scheduled replacement of the utility-side LSL, and that failure to do so may subject the property owner to non-compliance penalties.
4. At least forty-five (45) days prior to the date of the scheduled replacement of the utility-side LSL, SPU shall notify the property owner with a customer-side LSL in writing of the scheduled date of replacement of the utility-side LSL.
5. Within thirty (30) days of receipt of the replacement notice, the property owner must schedule the replacement of the customer-side LSL to coincide with the scheduled replacement of the utility-side LSL. The property owner shall promptly notify SPU that the replacement of the customer-side LSL has been scheduled and provide the name of the plumbing contractor who will complete the replacement work.
6. Upon a property owner's request, SPU may assist the property owner with getting bids from plumbing contractors. SPU's contractor for utility-side LSL replacement work may be available to perform customer-side LSL replacement work.

7. Customer-side LSL replacement work must be completed at the same time as the utility-side LSL is replaced unless an extension is allowed under paragraph 8. Failure to commence customer-side LSL replacement work as required by this ordinance or to complete such work within a reasonable time after commencement of the work, may result in the issuance of non-compliance penalties.
 8. Upon the property owner's written request, and with the property owner's demonstration of a compelling need, the utility manager may, at his or her discretion, extend the time for replacing the customer-side LSL, unless the utility manager determines that granting such an extension will create an imminent threat to the health, safety or welfare of the public.
 9. A property owner who follows the procedures detailed in both this subsection and subsection H may be eligible to receive financial assistance for the customer-side LSL replacement.
- G. Replacement of Customer-side Lead Service Line where only the Customer-Side portion of the Service Line is Lead.
1. If SPU confirms that a customer-side service line is constructed of lead and notifies the property owner of that fact in writing as provided by subsection E, the property owner must, unless subsection F applies, arrange for the replacement of the customer-side LSL to be completed within thirty-six (36) months of notification. Failure to complete the replacement of the customer-side LSL within that time period may result in non-compliance penalties.
 2. Upon the property owner's written request, and with the property owner's demonstration of a compelling need, the utility manager may, at his or her discretion, extend the time for replacing the customer-side LSL, unless the utility manager determines that granting such an extension will create an imminent threat to the health, safety or welfare of the public.
 3. A property owner who follows the procedures detailed in both this subsection and subsection H may be eligible to receive financial assistance for the customer-side LSL replacement.
- H. Financial Assistance for Customer-Side LSL Replacements.
1. SPU is authorized to establish a program to provide eligible property owners with financial assistance to replace customer-side LSLs. SPU must seek PSC approval of any SPU financial assistance program to replace customer-side LSLs. If SPU's financial assistance program has received PSC approval and has available funding, SPU may provide eligible property owners with financial assistance to replace customer-side LSLs as provided in this subsection H.
 2. SPU may provide an eligible property owner with financial assistance to pay the property owner's customer-side LSL replacement costs. SPU may provide a grant to pay for up to fifty percent (50%) of the property owner's customer-side LSL replacement costs. The grant may not exceed a maximum amount of two thousand dollars (\$2,000.00). Financial assistance for the remainder of the property owner's customer-side LSL replacement costs may be provided in the form of a loan.
 3. SPU may loan an eligible property owner funds to pay the property owner's remaining customer-side LSL replacement cost after the receipt of any grant monies under paragraph 2. SPU may provide an eligible property owner a sixty-month, zero percent interest, loan. The amount of the loan shall be no greater than the lowest bid amount under paragraph 6, less any grant monies awarded under paragraph 2. A property owner shall repay the loan in equal monthly installments. Loan repayments shall be included on SPU's monthly utility bill. Loan repayments that are past due may be placed on the property tax roll as provided in Section 66.0809, Wisconsin Statutes.
 4. A property owner is eligible for financial assistance for the purpose of replacing the customer-side LSL if the property owner satisfies all of the following criteria:
 - a. The property owner alone, or collectively with others, owns the entire fee simple title to the property served by the customer-side LSL.

- b. The property owner's customer-side LSL is either attached to a utility-side service line that is not a LSL, or a utility-side LSL scheduled for replacement and for which the property owner has been notified by SPU of such scheduled replacement.
 - c. The property owner agrees to have the replacement work done by a utility-approved plumbing contractor in compliance with this ordinance.
- 5. Written applications for financial assistance shall include the following:
 - a. A completed application on a form furnished by SPU signed by the eligible property owner. The completed application form shall include a certification by the property owner that attests that all eligibility criteria listed in paragraph 4 are met.
 - b. Copies of written quotes from at least two pre-qualified plumbing contractors for the replacement of the property owner's customer-side LSL. A pre-qualified plumbing contractor is one that has gone through the approval process and been placed on SPU's prequalified plumbing contractor list. To be placed on the prequalified plumbing contractors list, a licensed Wisconsin plumbing contractor must fill out a prequalification form at the SPU office located at 125 West Main Street in Sun Prairie and be officially approved by SPU.
- 6. A property owner will be eligible for financial assistance based only on the lowest bid amount included in the written quotes received from the pre-qualified plumbing contractors under paragraph 5.b., unless an extraneous circumstance exists that will require the approval of the utility manager. In general, financial assistance amounts will strictly be on base bid pricing and will not include change orders. In certain circumstances and where deemed appropriate, the utility manager, in conjunction with the property owner, may approve a contractor requested change order for inclusion in the financial assistance portion of the work.
- 7. After a complete application is received, and prior to the commencement of any replacement work, SPU shall determine if the property owner is eligible for financial assistance, and the amount of financial assistance available as a grant and the amount of financial assistance available as a loan. Such determination shall be provided in writing to the applying property owner.
- 8. Customer-side LSL replacement work must be accomplished in a workmanlike manner and be coordinated with any SPU utility-side LSL replacement work as required by subsection F.
- 9. Upon completion of the customer-side LSL replacement, the property owner shall provide SPU with a copy of the invoice from the plumbing contractor. Upon proof of completion satisfactory to the property owner and SPU, SPU shall directly pay the plumbing contractor the amount of money approved by SPU for financial assistance for replacement of the customer-side LSL. SPU shall provide the property owner with documentation of such payment.
- 10. The total amount of money provided by SPU as financial assistance in the form of a grant and loan may not exceed the actual cost of replacement of the customer-side LSL.
- 11. Disputes regarding eligibility for financial assistance may be appealed to the Sun Prairie Utilities Commission.
- I. Severability. If any subsection or portion of this ordinance is for any reason determined to be invalid or unconstitutional by the decision of a court of competent jurisdiction, that subsection or portion shall be deemed severable and shall not affect the validity of the remaining subsections or portions of this ordinance.
- J. Authority to Discontinue Service. If a property owner fails to replace a customer-side LSL as required by this ordinance, SPU may in accordance with its water utility tariffs discontinue water service to such property until the customer-side LSL is replaced.

WAUSAU WATER WORKS - DRINKING WATER DIVISION			DATE 05/12/20					
2021-2025 CAPITAL PLAN								
IMPROVEMENTS/PROJECTS	COST EST 2020-2024	FUND SOURCE	2020	2021	2022	2023	2024	2025
WATER TREATMENT PLANT								
PLANT ENGRG/DESIGN/BIDDINGN/MNGMT	\$17,900,000	BORROW	26,100,000	17,900,000				
PUMPING/FILTRATION/CLEAR WELL	\$0	BORROW						
PLANT FILTER REHAB	\$0	BORROW						
SS PLANT REHABILITATION	\$0	BORROW						
CHEMICAL FEED/SCADA/EQUIPMENT	\$0	BORROW						
METER BUILDING RECONSTRUCTION	\$0	BORROW						
TREATMENT PLANT BUILDING RENOVATION	\$0	BORROW						
SUBTOTAL	\$17,900,000		\$26,100,000	\$17,900,000	\$0	\$0	\$0	\$0
TOWERS/RESERVOIRS/BOOSTER STATIONS								
GENERATOR - ONSITE (\$240K)	\$240,000	BORROW			240,000			
SCADA UPGRADES - BOOSTER STNS (\$360K)	\$360,000	BORROW		0	0		360,000	
MONROE BOOSTER STATION RECONSTRUCTION	\$500,000	BORROW				500,000		
RESERVOIR INSPECTIONS	\$40,000	OP FUNDS					40,000	
RESERVOIR INTER/EXTER COATINGS & MAINT	\$750,000	OP FUNDS		150,000	150,000	150,000	150,000	150,000
SUBTOTAL	\$1,890,000		\$0	\$150,000	\$390,000	\$650,000	\$550,000	\$150,000
BUILDINGS AND STRUCTURES								
WELL HOUSES - UPGRADES	\$200,000	OP FUNDS	40,000	40,000	40,000	40,000	40000	40000
BOOSTER STATIONS - UPGRADES	\$375,000	OP FUNDS	75,000	75,000	75,000	75,000	75000	75000
SUBTOTAL	\$575,000		\$115,000	\$115,000	\$115,000	\$115,000	\$115,000	\$115,000
WELLS								
FUTURE WELL	\$650,000	BORROW						\$650,000
SUBTOTAL	\$650,000		\$0	\$0	\$0	\$0	\$0	\$0
METERS & RADIO READ BOXES								
METER & RADIO BOX REPLACEMENT (ON-GOING)	\$2,100,000	OP FUNDS	420,000	420,000	420,000	420,000	420,000	420,000
SUBTOTAL	\$2,100,000		\$420,000	\$420,000	\$420,000	\$420,000	\$420,000	\$420,000
TRANSPORTATION EQUIPMENT - VEHICLES								
LIGHT DUTY TRUCK	\$200,000	BORROW	85,000	40,000	40,000	40,000	40,000	40,000
DUMP TRUCK	-\$170,000	BORROW						
SUBTOTAL	\$30,000		\$85,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
TOOLS, SHOP AND GARAGE								
BACKHOE REPLACEMENT	\$125,000	BORROW			125,000			
HURCO (ADDITIONAL AND REPLACEMENT)	\$80,000	OP FUNDS		80,000				
SUBTOTAL	\$205,000		\$0	\$80,000	\$125,000	\$0	\$0	\$0
OFFICE FURNITURE AND EQUIPMENT								
COMPUTER EQUIPMENT	\$0	OP FUNDS			\$0			
SUBTOTAL	\$0		\$0	\$0	\$0	\$0	\$0	\$0
DISTRIBUTION/SUPPLY MAINS								
Street Projects								
Kickbusch St (Bellis to 13th St)	\$0	BORROW	\$326,125					
Cedar Street, 7th Ave to 14th Ave	\$0	OP FUNDS	\$348,302					
Emerson Street, EauClaire to Kent	\$20,000	OP FUNDS	\$0	\$20,000				
Mount View Blvd., EauClaire to Kent	\$20,000	OP FUNDS	\$0	\$20,000				
Pied Piper Lane, EC to Kent	\$40,000	OP FUNDS	\$0	\$40,000				
Eau Claire BLVD	\$510,000	BORROW	\$0	\$510,000				
Bertha St (Mary to Zimmerman)	\$120,000	OP FUNDS		\$0		\$120,000		
Ethel Street (Grand Ave - Zimmerman St)	\$140,000	OP FUNDS		\$0			\$140,000	
4th St (McClellan St- Scott St)	\$40,000	OP FUNDS		\$0	\$40,000			
Jackson St (Rrtrackes o 12th St)	\$120,000	OP FUNDS			\$0	\$120,000		
Stark St (5th St- 122th St)	\$0	OP FUNDS			\$0	\$0		
Bugbee Ave (Burek Ave - Tiernaey Rd)	\$80,000	OP FUNDS			\$80,000			
Hennrietta St (Bellis St - 13th St)	\$160,000	OP FUNDS				\$0	\$160,000	
4th Ave (Bridge St - Knox St)	\$240,000	OP FUNDS				\$0		\$240,000
Burek and Campus Watermain	\$550,000	Borrow			\$550,000			
Rosecrans (17th Ave - 22nd Ave)	\$120,000	OP FUNDS			\$120,000	\$0		
Future Street projects	\$0	OP FUNDS					0	\$0
SUBTOTAL	\$1,690,000		\$674,427	\$590,000	\$790,000	\$240,000	\$300,000	\$240,000
Proposed Developments/Extensions								
Ind Park WM Relocate (Dietary Pros)	\$90,000	BORROW			\$90,000			
Northwestern Ave (Higgenbotham)	\$130,000	BORROW			\$130,000			
Greenwood Hills Phase 2	\$0	BORROW						
General Distribution Projects								
STEWART AVE LOOPING-12"-60/68 AVE	\$150,000	OP FUNDS		\$150,000				
LOOPING MAIN 10"- FRANKLIN ST TO HAMILTON ST	\$135,000	OP FUNDS			\$135,000			
Looping main Stettin Dr. Stewart to 44th	\$150,000	OP FUNDS				\$150,000		
LOOPING MAIN STETTIN DRIVE, 48TH AVE TO 52ND AV	\$170,000	OP FUNDS				\$85,000	\$85,000	
ELM ST (14TH- 17TH AVE) 17TH AVE (ELM- STEWART)	\$540,000	BORROW			\$540,000			
17TH AVE LINING (ELM NORTH TO EAST SIDE HWY 51)	\$220,000	BORROW			\$220,000			
MISC EXTENSIONS	\$1,900,000	BORROW	\$300,000	\$300,000	\$300,000	\$300,000	\$500,000	\$500,000
SUBTOTAL	\$3,485,000		\$300,000	\$450,000	\$1,415,000	\$535,000	\$585,000	\$500,000
TOTAL CAPITAL	\$28,525,000		\$27,694,427	\$19,745,000	\$3,295,000	\$2,000,000	\$2,010,000	\$1,465,000

WAUSAU WATER WORKS - DRINKING WATER DIVISION		DATE 05/12/20						
2021-2025 CAPITAL PLAN								
IMPROVEMENTS/PROJECTS	COST EST 2020-2024	FUND SOURCE	2020	2021	2022	2023	2024	2025
CUMULITIVE CAPITAL			\$27,694,427	\$47,439,427	\$50,734,427	\$52,734,427	\$54,744,427	\$56,209,427
	WATER CIP FUNDING							
		2020	2021	2022	2023	2024	2025	
		OP FUNDS	\$883,302	\$995,000	\$1,060,000	\$1,160,000	\$1,110,000	\$275,000
		BORROW	\$26,811,125	\$18,750,000	\$2,235,000	\$840,000	\$900,000	\$1,190,000
		TOTAL	\$27,694,427	\$19,745,000	\$3,295,000	\$2,000,000	\$2,010,000	\$1,465,000

WAUSAU WATER WORKS - WASTEWATER DIVISION			DATE 05/06/2020					
2021-2025 CAPITAL PLAN								
	COST EST	FUND						
IMPROVEMENTS/PROJECTS	2021-2025	SOURCE	2020	2021	2022	2023	2024	2025
SEWER TREATMENT PLANT								
Final Design / Bidding	6,000,000	BORROW	4,000,000	6,000,000				
Plant Buildings and Infrastructure	5,000,000	BORROW	5,000,000	5,000,000	0	0	0	0
Upgrade Aeration Basins	1,500,000	BORROW	1,500,000	1,500,000				
Digesters and Equipment	5,000,000	BORROW	5,500,000	5,000,000				
Disinfection Capacity	250,000	BORROW	250,000	250,000				
Phosphorus and Filtration	5,500,000	BORROW	5,500,000	5,500,000				
Preliminary Treatment Grit Removal	1,400,000	BORROW	1,400,000	1,400,000				
Raw Wastewater Pumping	2,500,000	BORROW	2,500,000	2,500,000				
Primary Clarifiers/Primary Clarifier Piping	2,400,000	BORROW	2,400,000	2,400,000				
Solids Handling	8,000,000	BORROW	8,000,000	8,000,000				
Generator and Building Upgrades	3,000,000	BORROW		3,000,000				
Gas Storage Compressors	0	BORROW	800,000					
RAW Pump #3 Rebuild	0	BORROW	40,000					
SCADA I&C	0	BORROW	1,000,000					
Secondary Clarifier Launderers in 2019 \$500K	0	BORROW	0					
Asset/O&M Management				50,000	80,000	80,000		
Subtotal	40,550,000		37,890,000	40,600,000	80,000	80,000	-	-
SEWER LIFT STATIONS								
Airport Lift Station Bar Screen, pumps, and generator	\$525,000	BORROW	\$100,000	\$525,000				
Northwestern LS Check Valves, Electrical, Pumps, Piggig	\$305,000	BORROW		\$205,000	\$100,000			
Greenwood Hills LS Access, Check Valves	\$150,000	BORROW			\$150,000			
Evergreen Lift Station replace Forcemain	\$75,000	BORROW		\$75,000				
Crocker Street LS Rehab	\$300,000	BORROW	\$40,000	\$300,000				
Cherry Street LS Forcemain	\$200,000	BORROW			\$200,000			
Cherry Street LS pumps, Valves, Generator	\$320,000	BORROW	\$40,000	\$320,000				
Stettin Dr LS Rehab	\$250,000	BORROW		\$250,000				
Packer Drive	\$100,000	BORROW					\$100,000	
44th Ave LS	\$50,000	BORROW				\$50,000		
24th Ave LS	\$10,000	BORROW					\$10,000	
Trails End LS Forcemain, Control Panel	\$175,000	BORROW		\$150,000	\$25,000			
Lift Station Cellular Communications	\$25,000	BORROW		\$25,000				
Lift Station Access	\$0	OP FUNDS						
SCADA Upgrades	200,000	BORROW	0			100,000	100,000	
Lift Stn Ind Park (bar screen)	450,000	BORROW				0		450,000
Lift Station Control Panel Upgrades	0	OP FUNDS						
Lift Station Ind Park Pump and Controls \$600K	0	BORROW						
Industrial Park LS Parallel Force Main	300,000	BORROW	0	0	300,000		0	
Backup Generator Upgrades	0	OP FUNDS	75,000					
Crocker St. \$200K	0	BORROW	0					
Townline Lift Station	180,000	BORROW	0		180,000			
Lift Station Forcemain Cleaning \$100K	0	OP FUNDS						
Subtotal	3,615,000		255,000	1,850,000	755,000	350,000	210,000	450,000
OFFICE EQUIPMENT								
Office Computers/Software	0	OP FUNDS						
Plant Computers/Software	0	BORROW						
Subtotal	-		-	-	-	-	-	-
TRANSPORTATION/EQUIPMENT								
1 Ton truck, in 2019 \$75K (done?)	-	BORROW	0					
Jetter	-	BORROW	650,000					
Loader	175,000	BORROW		175,000				
Fork Lift	20,000	BORROW		20,000				
Rodder Truck	60,000	BORROW		60,000				
Dump truck	164,000	BORROW			82,000		82,000	
TV truck	240,000	BORROW			240,000			
Slinger	175,000	BORROW				175,000		
Subtotal	834,000		650,000	255,000	322,000	175,000	82,000	-
Street Projects								
Kickbusch St (Bellis to 13th St)	-	BORROW	213,123					
Cedar Street, 7th Ave t 14th Ave	-	OP FUNDS	126,704					
Eau Claire Blvd, Grand to West Terminal	280,000	BORROW		280,000				
Emerson Street, Eau Calaire Blvd to Kent	30,000	OP FUNDS		30,000				
Mont View Blvd, Eau Claire Blvd to Kent	25,000	OP FUNDS		25,000				
Bertha St (Mary to Zimmerman)	240,000	BORROW				240,000		
Ethel Street (Grand Ave - Zimmerman St)	360,000	OP FUNDS					360,000	
4th St (McClellan St - Scott St)	60,000	OP FUNDS			60,000			
7th Ave (Pardee St - Garfield Ave)	-	OP FUNDS						
Jackson St (RR tracks - 12th St)	-	OP FUNDS				0		
Stark St (5th St - 12th St)	-	OP FUNDS				0		
Bugbee Ave (Burek Ave - Tierney Rd)	100,000	OP FUNDS			100,000			

WAUSAU WATER WORKS - WASTEWATER DIVISION			DATE 05/06/2020					
2021-2025 CAPITAL PLAN								
IMPROVEMENTS/PROJECTS	COST EST 2021-2025	FUND SOURCE	2020	2021	2022	2023	2024	2025
Henrietta St (Bellis St - 13th St)	-	OP FUNDS					0	
4th Ave (Bridge St - Knox St)	320,000	OP FUNDS						320,000
Rosecrans (17th Ave - 22nd Ave, 24" intrcpt)	160,000	OP FUNDS			160,000			
Fulton Street Extension	TBD	TID #3						
Future Street Projects	-	OP FUNDS					0	0
Subtotal	1,575,000		339,827	335,000	320,000	240,000	360,000	320,000
Proposed Developments/Extensions								
Northwestern Avenue (Higgenbotham)	120,000	BORROW			120,000			
Indtrl Park Sewer Reloc-Dietary Pros	-	BORROW		0				
Greenwood Hills Phase 2	-	BORROW						
Subtotal	120,000		-	-	120,000	-	-	-
Sewer Collection System Projects								
Slipline Sewers (Cured in Place)	2,125,000	OP FUNDS	425,000	425,000	425,000	425,000	425,000	425,000
Forcemain Pigging and Cleaning	360,000	OP FUNDS	250,000	120,000		120,000		120,000
Interceptor Line H2S Rprs	500,000	OP FUNDS	500,000				500,000	
West St to River St 36" Sewer	-	BORROW	90,000					
River St to WWTF 36" Sewer	-	BORROW						
Stewart Avenue Force Main	1,500,000	BORROW				1,500,000		
River Crossings Siphons Design \$200K	-	OP FUNDS						
River Crossings Construction	-	BORROW	2,177,417					
I&I Grouting and Repairs	500,000	OP FUNDS	100,000	100,000	100,000	100,000	100,000	100,000
Unanticipated Sewer Projects	1,500,000	BORROW	232,583	300,000	300,000	300,000	300,000	300,000
Subtotal	6,485,000		3,775,000	945,000	825,000	2,445,000	1,325,000	945,000
TOTAL PLANNED CAPITAL EXPENDITURES			42,909,827	43,985,000	2,422,000	3,290,000	1,977,000	1,715,000
TOTAL PLANT & COLLECTION ONLY			41,920,000	43,395,000	1,660,000	2,875,000	1,535,000	1,395,000
CUMULATIVE FULL UPGRADE			42,909,827	86,894,827	89,316,827	92,606,827	94,583,827	96,298,827
SEWER CIP FUNDING								
			2020	2021	2022	2023	2024	2025
		OP FUNDS	\$1,476,704	\$750,000	\$925,000	\$725,000	\$1,385,000	\$965,000
		BORROW	\$41,433,123	\$43,235,000	\$1,497,000	\$2,565,000	\$592,000	\$750,000
		TOTAL	\$42,909,827	\$43,985,000	\$2,422,000	\$3,290,000	\$1,977,000	\$1,715,000
	Gap Loan/SDWFL		-37,890,000	-36,550,000	0			
	NET BORROW		3,543,123	6,685,000	1,497,000			



WATER, ELECTRIC, OR JOINT UTILITY ANNUAL REPORT

OF

WAUSAU WATER UTILITY

407 GRANT ST
WAUSAU, WI 54403-4737

For the Year Ended: DECEMBER 31, 2019

TO

PUBLIC SERVICE COMMISSION OF WISCONSIN

P.O. Box 7854
Madison, WI 53707-7854
(608) 266-3766

This form is required under Wis. Stat. § 196.07. Failure to file the form by the statutory filing date can result in the imposition of a penalty under Wis. Stat. § 196.66. The penalty which can be imposed by this section of the statutes is a forfeiture of not less than \$25 nor more than \$5,000 for each violation. Each day subsequent to the filing date constitutes a separate and distinct violation. The filed form is available to the public and personally identifiable information may be used for purposes other than those related to public utility regulation.

Water Service Started Date: 01/01/1885

DNR Public Water System ID: 73701023

Safe Drinking Water Information System (SDWIS) Total Population Served: 39106

I **Eric Lindman, Director of Public Works and Utilities of WAUSAU WATER UTILITY**, certify that I am the person responsible for accounts; that I have examined the following report and, to the best of my knowledge, information and belief, it is a correct statement of the business and affairs of said utility for the period covered by the report in respect to each and every matter set forth therein.

Date Signed: **5/27/2020**

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Identification and Ownership - Contacts

Utility employee in charge of correspondence concerning this report

Name: Valerie Swanborg

Title: City/ Utility Accountant

Mailing Address: 407 Grant Street
Wausau, WI 54403

Phone: (715) 261-6646

Email Address: valerie.swanborg@ci.wausau.wi.us

Accounting firm or consultant preparing this report (if applicable)

Name:

Title:

Mailing Address:

Phone:

Email Address:

Name and title of utility General Manager (or equivalent)

Name: Eric Lindman

Title: Director of Public Works and Utilities

Mailing Address: 407 Grant Street
Wausau, WI 54403

Phone: (715) 261-6745

Email Address: eric.lindman@ci.wausau.wi.us

President, chairman, or head of utility commission/board or committee

Name: Robert Mielke

Title: Chairman, Mayor

Mailing Address: 407 Grant Street
Wausau, WI 54403

Phone: (715) 261-6800

Email Address: robert.mielke@ci.wausau.wi.us

Contact person for cybersecurity issues and events

Name: Eric Lindman

Title: Director of Public Works and Utilities

Mailing Address: 407 Grant Street
Wausau, WI 54403

Phone: (715) 261-6745

Email Address: eric.lindman@ci.wausau.wi.us

Identification and Ownership - Governing Authority and Audit Information

Utility Governing Authority

Select the governing authority for this utility.

☒ Reports to utility board/commission

☐ Reports directly to city/village council

Audit Information

Are utility records audited by individuals or firms other than utility employees? ☒ Yes ☐ No

Date of most recent audit report: 07/26/2019

Period covered by most recent audit: 01/01/2018 - 12/31/2018

Individual or firm, if other than utility employee, auditing utility records

Name: Jon Trautman, CPA

Title: Partner

Organization Name: Clifton Larson Allen LLP

USPS Address: PO Box 23819

City State Zip Green Bay, WI 54305

Telephone: (920) 455-4312

Email Address: jon.trautman@CLAconnect.com

Report Preparation

If an accounting firm or consultant assists with report preparation, select the type of assistance provided

Not Applicable

Identification and Ownership - Contract Operations

Do you have any contracts?

Are any of the Utility's administrative or operational functions under contract or agreement with an outside provider for the year covered by this annual report and /or current year (i.e., utility billing is done by another entity)?

YES

Contract Type (a)	Organization (b)	Contact Name (c)		
Accounting	Ehlers	Jon Cameron	*	1
Engineering	Becher Hoppe	Steve M. Opatik, PE	*	2
Operations	HydroCorp	Scott Mitchell	*	3
Operations	Westrum Leak Detection	Troy Westrum	*	4

Identification and Ownership - Contract Operations

Do you have any contracts?

Are any of the Utility's administrative or operational functions under contract or agreement with an outside provider for the year covered by this annual report and /or current year (i.e., utility billing is done by another entity)?

Identification and Ownership - Contract Operations (Page vi)**General Footnote**

Ehlers is preparing a Water Rate Application.
Becher Hoope prepared a Treatment Facility Plan.
HydroCorp is performing Cross Connection Inspections services.
Westrum Leak Detection is performing leak inspection services.

Income Statement

Particulars (a)	This Year (b)	Last Year (c)	
UTILITY OPERATING INCOME			1
Operating Revenues (400)	7,242,867	5,871,044	2
Operating Expenses:			3
Operation and Maintenance Expense (401-402)	2,936,457	3,017,617	4
Depreciation Expense (403)	830,807	776,940	5
Amortization Expense (404-407)	0	0	6
Taxes (408)	1,217,135	1,198,756	7
Total Operating Expenses	4,984,399	4,993,313	8
Net Operating Income	2,258,468	877,731	9
Income from Utility Plant Leased to Others (412-413)			10
Utility Operating Income	2,258,468	877,731	11
OTHER INCOME			12
Income from Merchandising, Jobbing and Contract Work (415-416)	0	0	13
Income from Nonutility Operations (417)	275	(1,086)	14
Nonoperating Rental Income (418)			15
Interest and Dividend Income (419)	28,383		16
Miscellaneous Nonoperating Income (421)	9,572	46,307	17
Total Other Income	38,230	45,221	18
Total Income	2,296,698	922,952	19
MISCELLANEOUS INCOME DEDUCTIONS			20
Miscellaneous Amortization (425)	(109,599)	(109,599)	21
Other Income Deductions (426)	304,144	300,356	22
Total Miscellaneous Income Deductions	194,545	190,757	23
Income Before Interest Charges	2,102,153	732,195	24
INTEREST CHARGES			25
Interest on Long-Term Debt (427)	206,191	173,844	26
Amortization of Debt Discount and Expense (428)	91,014	813	27
Amortization of Premium on Debt--Cr. (429)	21,078	20,685	28
Interest on Debt to Municipality (430)	0	0	29
Other Interest Expense (431)	0	0	30
Interest Charged to Construction--Cr. (432)			31
Total Interest Charges	276,127	153,972	32
Net Income	1,826,026	578,223	33
EARNED SURPLUS			34
Unappropriated Earned Surplus (Beginning of Year) (216)	34,909,182	34,330,959	35
Balance Transferred from Income (433)	1,826,026	578,223	36
Miscellaneous Credits to Surplus (434)			37
Miscellaneous Debits to Surplus--Debit (435)			38
Appropriations of Surplus--Debit (436)			39
Appropriations of Income to Municipal Funds--Debit (439)			40
Total Unappropriated Earned Surplus End of Year (216)	36,735,208	34,909,182	41

Income Statement Account Details

- Report each item (when individually or when like items are combined) greater than \$10,000 (class AB), \$5,000 (class C) and \$2,000 (class D) and all other lesser amounts grouped as Miscellaneous. Describe fully using other than account titles.
- Nonregulated sewer income should be reported as Miscellaneous Nonoperating Income, Account 421.
- If amount of Contributed Plant – Water (421) does not match the total Additions During Year entered on Water Utility Plant in Service – Plant Financed by Contributions, please provide a detailed explanation. Please see the help guide for more information.

Description (a)	Earnings (216.1) (b)	Contributions (216.2) (c)	Total This Year (d)	
UTILITY OPERATING INCOME				1
Operating Revenues (400)				2
Derived	7,242,867		7,242,867	3
Total (Acct. 400)	7,242,867	0	7,242,867	4
Operation and Maintenance Expense (401-402)				5
Derived	2,936,457		2,936,457	6
Total (Acct. 401-402)	2,936,457	0	2,936,457	7
Depreciation Expense (403)				8
Derived	830,807		830,807	9
Total (Acct. 403)	830,807	0	830,807	10
Amortization Expense (404-407)				11
Derived	0		0	12
Total (Acct. 404-407)	0	0	0	13
Taxes (408)				14
Derived	1,217,135		1,217,135	15
Total (Acct. 408)	1,217,135	0	1,217,135	16
TOTAL UTILITY OPERATING INCOME	2,258,468	0	2,258,468	17
OTHER INCOME				18
Income from Merchandising, Jobbing and Contract Work (415-416)				19
Derived	0	0	0	20
Total (Acct. 415-416)	0	0	0	21
Income from Nonutility Operations (417)				22
Expenses Attributable to Northwoods Mist	(150)		(150)	23
Private Well Permits	200		200	24
Sale of Northwoods Mist	225		225	25
Total (Acct. 417)	275	0	275	26
Interest and Dividend Income (419)				27
Interest & Dividends on Restricted Funds	28,383		28,383	28
Total (Acct. 419)	28,383	0	28,383	29
Miscellaneous Nonoperating Income (421)				30
Contributed Plant - Water		7,093	7,093	31
Impact Fees - Water		0	0	32
Sale of general fixed assets	2,479		2,479	33
Total (Acct. 421)	2,479	7,093	9,572	34
TOTAL OTHER INCOME	31,137	7,093	38,230	35
MISCELLANEOUS INCOME DEDUCTIONS				36
Miscellaneous Amortization (425)				37
Regulatory Liability (253) Amortization	(109,599)		(109,599)	38
Total (Acct. 425)	(109,599)	0	(109,599)	39

Income Statement Account Details

- Report each item (when individually or when like items are combined) greater than \$10,000 (class AB), \$5,000 (class C) and \$2,000 (class D) and all other lesser amounts grouped as Miscellaneous. Describe fully using other than account titles.
- Nonregulated sewer income should be reported as Miscellaneous Nonoperating Income, Account 421.
- If amount of Contributed Plant – Water (421) does not match the total Additions During Year entered on Water Utility Plant in Service – Plant Financed by Contributions, please provide a detailed explanation. Please see the help guide for more information.

Description (a)	Earnings (216.1) (b)	Contributions (216.2) (c)	Total This Year (d)	
Other Income Deductions (426)				40
Depreciation Expense on Contributed Plant - Water		304,144	304,144	41
Total (Acct. 426)	0	304,144	304,144	42
TOTAL MISCELLANEOUS INCOME DEDUCTIONS	(109,599)	304,144	194,545	43
INTEREST CHARGES				44
Interest on Long-Term Debt (427)				45
Derived	206,191		206,191	46
Total (Acct. 427)	206,191	0	206,191	47
Amortization of Debt Discount and Expense (428)				48
Debt Service Expense	91,014		91,014	49
Total (Acct. 428)	91,014	0	91,014	50
Amortization of Premium on Debt--Cr. (429)				51
Amortize Bond Premiums	21,078		21,078	52
Total (Acct. 429)	21,078	0	21,078	53
Interest on Debt to Municipality (430)				54
Derived	0		0	55
Total (Acct. 430)	0	0	0	56
Other Interest Expense (431)				57
Derived	0		0	58
Total (Acct. 431)	0	0	0	59
TOTAL INTEREST CHARGES	276,127	0	276,127	60
NET INCOME	2,123,077	(297,051)	1,826,026	61
EARNED SURPLUS				62
Unappropriated Earned Surplus (Beginning of Year) (216)				63
Derived	21,267,101	13,642,081	34,909,182	64
Total (Acct. 216)	21,267,101	13,642,081	34,909,182	65
Balance Transferred from Income (433)				66
Derived	2,123,077	(297,051)	1,826,026	67
Total (Acct. 433)	2,123,077	(297,051)	1,826,026	68
UNAPPROPRIATED EARNED SURPLUS (END OF YEAR)	23,390,178	13,345,030	36,735,208	69

Income from Merchandising, Jobbing & Contract Work (Accts. 415-416)

Particulars (a)	Water (b)	Electric (c)	Gas (d)	Sewer (e)	Total (f)	
Revenues						1
Revenues (account 415)	0				0	2
Cost and Expenses of Merchandising, Jobbing and Contract Work (416)						3
Cost of merchandise sold	0				0	4
Payroll	0				0	5
Materials	0				0	6
Taxes	0				0	7
Total costs and expenses	0	0	0	0	0	8
Net Income (or loss)	0	0	0	0	0	9

Revenues Subject to Wisconsin Remainder Assessment

- Report data necessary to calculate revenue subject to Wisconsin remainder assessment pursuant to Wis. Stat § 196.85(2) and Wis. Admin. Code Ch. PSC 5.
- If the sewer department is not regulated by the PSC, do not report sewer department in data column (d).

Description (a)	Water Utility (b)	Electric Utility (c)	Gas Utility (d)	Sewer Utility (Regulated Only (e)	Total (f)	
Total operating revenues	7,242,867				7,242,867	1
Less: interdepartmental sales	0				0	2
Less: interdepartmental rents	0				0	3
Less: return on net investment in meters charged to regulated sewer department. (Do not report if nonregulated sewer.)					0	4
Less: uncollectibles directly expensed as reported in water acct. 904 (690 class D), sewer acct. 843, and electric acct. 904 -or- Net write-offs when Accumulated Provision for Uncollectible Accounts (acct. 144) is maintained	1,497				1,497	5
Revenues subject to Wisconsin Remainder Assessment	7,241,370	0	0	0	7,241,370	6

Distribution of Total Payroll

- Amounts charged to Utility Financed and to Contributed Plant accounts should be combined and reported in plant or accumulated depreciation accounts.
- Amount originally charged to clearing accounts as shown in column (b) should be shown as finally distributed in column (c).
- The amount for clearing accounts in column (c) is entered as a negative for account "Clearing Accounts" and the distributions to accounts on all other lines in column (c) will be positive with the total of column (c) being zero.
- Provide additional information in the schedule footnotes when necessary.
- Please see the help guide for examples of how to break out shared costs.

Accounts Charged (a)	Direct Payroll Distribution (b)	Allocation of Amounts Charged Clearing Accts. (c)	Total (d)	
Water operating expenses	1,036,739	145,498	1,182,237	1
Electric operating expenses			0	2
Gas operating expenses			0	3
Heating operating expenses			0	4
Sewer operating expenses			0	5
Merchandising and jobbing			0	6
Other nonutility expenses	127,001	(127,001)	0	7
Water utility plant accounts	941	0	941	8
Electric utility plant accounts			0	9
Gas utility plant accounts			0	10
Heating utility plant accounts			0	11
Sewer utility plant accounts			0	12
Accum. prov. for depreciation of water plant			0	13
Accum. prov. for depreciation of electric plant			0	14
Accum. prov. for depreciation of gas plant			0	15
Accum. prov. for depreciation of heating plant			0	16
Accum. prov. for depreciation of sewer plant			0	17
Clearing accounts	18,497	(18,497)	0	18
All other accounts			0	19
Total Payroll	1,183,178	0	1,183,178	20

Full-Time Employees (FTE)

- Use FTE numbers where FTE stands for Full-Time Employees or Full-Time Equivalency. FTE can be computed by using total hours worked/2080 hours for a fiscal year. Estimate to the nearest hundredth. If an employee works part time for more than one industry then determine FTE based on estimate of hours worked per industry.
- Example: An employee worked 35% of their time on electric jobs, 30% on water jobs, 20% on sewer jobs and 15% on municipal nonutility jobs. The FTE by industry would be .35 for electric, .30 for water and .20 for sewer.

Industry (a)	FTE (b)	
Water	20.7	1
Electric		2
Gas		3
Sewer		4

Balance Sheet

Assets and Othe Debits (a)	Balance End of Year (b)	Balance First of Year (c)	
ASSESTS AND OTHER DEBITS			1
UTILITY PLANT			2
Utility Plant (101)	65,205,215	57,922,748	3
Less: Accumulated Provision for Depreciation and Amortization of Utility Plant (111)	21,148,157	20,198,530	4
Utility Plant Acquisition Adjustments (117-118)	(642,353)	0	5
Other Utility Plant Adjustments (119)	0	0	6
Net Utility Plant	43,414,705	37,724,218	7
OTHER PROPERTY AND INVESTMENTS			8
Nonutility Property (121)	0	0	9
Less: Accumulated Provision for Depreciation and Amortization of Nonutility Property (122)	0	0	10
Investment in Municipality (123)	0	0	11
Other Investments (124)	0	0	12
Sinking Funds (125)	0	1,016,000	13
Depreciation Fund (126)	0	0	14
Other Special Funds (128)	863,361	641,489	15
Total Other Property and Investments	863,361	1,657,489	16
CURRENT AND ACCRUED ASSETS			17
Cash (131)	1,434,020	1,903,536	18
Special Deposits (134)	0	0	19
Working Funds (135)	0	0	20
Temporary Cash Investments (136)	0	0	21
Notes Receivable (141)	0	0	22
Customer Accounts Receivable (142)	1,536,060	1,486,652	23
Other Accounts Receivable (143)	0	0	24
Accumulated Provision for Uncollectible Accounts- -Cr. (144)	0	0	25
Receivables from Municipality (145)	0	0	26
Plant Materials and Operating Supplies (154)	292,151	275,044	27
Merchandise (155)	0	0	28
Other Materials and Supplies (156)	0	0	29
Stores Expense (163)	0	0	30
Prepayments (165)	0	0	31
Interest and Dividends Receivable (171)	0	0	32
Accrued Utility Revenues (173)	0	0	33
Miscellaneous Current and Accrued Assets (174)	648,686	554,981	34
Total Current and Accrued Assets	3,910,917	4,220,213	35
DEFERRED DEBITS			36
Unamortized Debt Discount and Expense (181)	0	0	37
Extraordinary Property Losses (182)	0	0	38
Preliminary Survey and Investigation Charges (183)	0	0	39
Clearing Accounts (184)	0	0	40
Temporary Facilities (185)	0	0	41
Miscellaneous Deferred Debits (186)	234,021	141,382	42
Total Deferred Debits	234,021	141,382	43
TOTAL ASSETS AND OTHER DEBITS	48,423,004	43,743,302	44

Balance Sheet

Liabilities and Othe Credits (a)	Balance End of Year (b)	Balance First of Year (c)	
LIABILITIES AND OTHER CREDITS			1
PROPRIETARY CAPITAL			2
Capital Paid in by Municipality (200)	455,575	455,575	3
Appropriated Earned Surplus (215)	0	0	4
Unappropriated Earned Surplus (216)	36,735,208	34,909,182	5
Total Proprietary Capital	37,190,783	35,364,757	6
LONG-TERM DEBT			7
Bonds (221)	7,845,000	5,710,000	8
Advances from Municipality (223)	0	0	9
Other Long-Term Debt (224)	840,000	980,000	10
Total Long-Term Debt	8,685,000	6,690,000	11
CURRENT AND ACCRUED LIABILITIES			12
Notes Payable (231)	0	0	13
Accounts Payable (232)	780,027	185,119	14
Payables to Municipality (233)	0	0	15
Customer Deposits (235)	0	0	16
Taxes Accrued (236)	0	1	17
Interest Accrued (237)	62,758	36,514	18
Tax Collections Payable (241)	0	0	19
Miscellaneous Current and Accrued Liabilities (242)	892,547	639,151	20
Total Current and Accrued Liabilities	1,735,332	860,785	21
DEFERRED CREDITS			22
Unamortized Premium on Debt (251)	373,492	279,764	23
Customer Advances for Construction (252)	0	0	24
Other Deferred Credits (253)	438,397	547,996	25
Total Deferred Credits	811,889	827,760	26
OPERATING RESERVES			27
Property Insurance Reserve (261)	0	0	28
Injuries and Damages Reserve (262)	0	0	29
Pensions and Benefits Reserve (263)	0	0	30
Miscellaneous Operating Reserves (265)	0	0	31
Total Operating Reserves	0	0	32
TOTAL LIABILITIES AND OTHER CREDITS	48,423,004	43,743,302	33

Net Utility Plant

- Report utility plant accounts and related accumulated provisions for depreciation and amortization after allocation of common plant accounts and related provisions for depreciation and amortization to utility departments as of December 31.

Particulars (a)	Water (b)	Electric (c)	Gas (d)	Sewer (e)	
First of Year					1
Total Utility Plant - First of Year	57,922,748	0	0	0	2
	57,922,748	0	0	0	3
Plant Accounts					4
Utility Plant in Service - Financed by Utility Operations or by the Municipality (101.1)	43,041,414				5
Utility Plant in Service - Contributed Plant (101.2)	18,983,688				6
Utility Plant Purchased or Sold (102)					7
Utility Plant Leased to Others (104)					8
Property Held for Future Use (105)	981,358				9
Completed Construction not Classified (106)					10
Construction Work in Progress (107)	2,198,755				11
Total Utility Plant	65,205,215	0	0	0	12
Accumulated Provision for Depreciation and Amortization					13
Accumulated Provision for Depreciation of Utility Plant in Service - Financed by Utility Operations or by the Municipality (111.1)	15,771,088				14
Accumulated Provision for Depreciation of Utility Plant in Service - Contributed Plant (111.2)	5,377,069				15
Accumulated Provision for Depreciation of Utility Plant Leased to Others (112)					16
Accumulated Provision for Depreciation of Property Held for Future Use (113)					17
Accumulated Provision for Amortization of Utility Plant in Service (114)					18
Accumulated Provision for Amortization of Utility Plant Leased to Others (115)					19
Accumulated Provision for Amortization of Property Held for Future Use (116)					20
Total Accumulated Provision	21,148,157	0	0	0	21
Accumulated Provision for Depreciation and Amortization					22
Utility Plant Acquisition Adjustments (117)					23
Accumulated Provision for Amortization of Utility Plant Acquisition Adjustments (118)	(642,353)				24
Other Utility Plant Adjustments (119)					25
Total Other Utility Plant Accounts	(642,353)	0	0	0	26
Net Utility Plant	43,414,705	0	0	0	27

Accumulated Provision for Depreciation of Utility Plant on Utility Plant Financed by Utility Operations or by the Municipality (Acct. 111.1)

Depreciation Accruals (Credits) during the year (111.1):

- Report the amounts charged in the operating sections to Depreciation Expense (403).
- If sewer operations are nonregulated, do not report sewer depreciation on this schedule.
- Report the Depreciation Expense on Meters charged to sewer operations as an addition in the Water Column. If the sewer is also a regulated utility by the PSC, report an equal amount as a reduction in the Sewer column.
- Report all other accruals charged to other accounts, such as to clearing accounts.

Description (a)	Water (b)	Electric (c)	Gas (d)	Sewer (e)	Total (f)	
Balance First of Year (111.1)	15,061,000	0	0	0	15,061,000	1
Credits during year						2
Charged Depreciation Expense (403)	830,807				830,807	3
Depreciation Expense on Meters Charged to Sewer	97,966				97,966	4
Salvage	0				0	5
Power Operated Equipment	48,891				48,891	6
Transportation Equipment	24,800				24,800	7
Total credits	1,002,464	0	0	0	1,002,464	8
Debits during year						9
Book Cost of Plant Retired	292,376				292,376	10
Cost of Removal	0				0	11
Total debits	292,376	0	0	0	292,376	12
Balance end of year (111.1)	15,771,088	0	0	0	15,771,088	13

Accumulated Provision for Depreciation of Utility Plant on Contributed Plant in Service (Acct. 111.2)

Depreciation Accruals (Credits) during the year (111.2):

- Report the amounts charged in the operating sections to Other Income Deductions (426).
- If sewer operations are nonregulated, do not report sewer depreciation on this schedule.
- Report the Depreciation Expense on Meters charged to sewer operations as an addition in the Water Column. If the sewer is also a regulated utility by the PSC, report an equal amount as a reduction in the Sewer column.
- Report all other accruals charged to other accounts, such as to clearing accounts.

Description (a)	Water (b)	Electric (c)	Gas (d)	Sewer (e)	Total (f)	
Balance First of Year (111.2)	5,137,530	0	0	0	5,137,530	1
Credits during year						2
Charged Other Income Deductions (426)	304,144				304,144	3
Depreciation Expense on Meters Charged to Sewer	0				0	4
Salvage	0				0	5
Total credits	304,144	0	0	0	304,144	6
Debits during year						7
Book Cost of Plant Retired	64,605				64,605	8
Cost of Removal	0				0	9
Total debits	64,605	0	0	0	64,605	10
Balance end of year (111.2)	5,377,069	0	0	0	5,377,069	11

Net Nonutility Property (Accts. 121 & 122)

- Report separately each item of property with a book cost of \$5,000 or more included in account 121.
- Other items may be grouped by classes of property.
- Describe in detail any investment in sewer department carried in this account.

Description (a)	Balance First of Year (b)	Additions During Year (c)	Deductions During Year (d)	Balance End of Year (e)	
Nonregulated sewer plant	0	0	0	0	1
Total Nonutility Property (121)	0	0	0	0	2
Less accum. prov. depr. & amort. (122)	0	0	0	0	3
Net Nonutility Property	0	0	0	0	4

Accumulated Provision for Uncollectible Accounts-Cr. (Acct. 144)

Description (a)	Amount (b)	
Balance first of year	0	1
Additions		2
Provision for uncollectibles during year	0	3
Collection of accounts previously written off: Utility Customers	0	4
Collection of accounts previously written off: Others	0	5
Total Additions	0	6
Accounts Written Off		7
Accounts written off during the year: Utility Customers	0	8
Accounts written off during the year: Others	0	9
Total Accounts Written Off	0	10
Balance End of Year	0	11

Materials and Supplies

Account (a)	Generation (b)	Transmission (d)	Distribution (d)	Other (e)	Total End of Year (f)	Amount Prior Year (g)	
Electric Utility							1
Fuel (151)					0	0	2
Fuel stock expenses (152)					0	0	3
Plant mat. & oper. sup. (154)					0	0	4
Total Electric Utility	0	0	0	0	0	0	5

Account	Total End of Year	Amount Prior Year	
Electric utility total	0	0	1
Water utility (154)	292,151	275,044	2
Sewer utility (154)			3
Heating utility (154)			4
Gas utility (154)			5
Merchandise (155)			6
Other materials & supplies (156)			7
Stores expense (163)			8
Total Material and Supplies	292,151	275,044	9

Unamortized Debt Discount & Expense & Premium on Debt (Accts. 181 and 251)

Report net discount and expense or premium separately for each security issue.

Debt Issue to Which Related (a)	Written Off During Year		Balance End of Year (d)	
	Amount (b)	Account Charged or Credited (c)		
Unamortized debt discount & expense (181)				1
None				2
Total	0		0	3
Unamortized premium on debt (251)				4
2014 Deferred Amount on Refinancing	120	(120)	0	5
2017C & 2019D Revenue Bond Premium	279,644	93,848	373,492	6
None				7
Total	279,764		373,492	8

Capital Paid in by Municipality (Acct. 200)

Report each item (when individually or when like items are combined) greater than \$10,000 (class AB), \$5,000 (class C) and \$2,000 (class D, sewer and privates) and all other lesser amounts grouped as Miscellaneous. Describe fully using other than account titles.

	Description (a)	Amount (b)	
Balance first of year		455,575	1
Balance end of year		455,575	2

Bonds (Acct. 221)

- Report information required for each separate issue of bonds.
- If there is more than one interest rate for an aggregate obligation issue, average the interest rates and report one rate.
- Proceeds advanced by the municipality from sale of general obligation bonds, if repayable by utility, should be included in account 223.
- Enter interest rates in decimal form. For example, enter 6.75% as 0.0675

Description of Issue (a)	Date of Issue (b)	Final Maturity Date (c)	Interest Rate (d)	Principal Amount End of Year (e)	
2017C Revenue Bonds	12/05/2017	05/01/2027	2.00%	4,135,000	1
2018B Revenue Bond	12/04/2018	04/01/2020	3.00%	1,015,000	2
2019D Revenue Bond	10/01/2019	05/01/2027	3.00%	2,695,000	3
Total				7,845,000	4

Notes Payable & Miscellaneous Long-Term Debt

- Report each class of debt included in Accounts 223, 224 and 231.
- Proceeds of general obligation issues, if subject to repayment by the utility, should be included in Account 223.
- If there is more than one interest rate for an aggregate obligation issue, average the interest rates and report one rate.
- Enter interest rates in decimal form. For example, enter 6.75% as 0.0675

Account and Description of Obligation (a and b)	Date of Issue (c)	Final Maturity Date (d)	Interest Rate (e)	Principal Amount End of Year (f)	
Other Long-Term Debt (224)					1
Sewer Utility Advance	08/31/2015	12/31/2026	0.00%	840,000	2
Total for Account 224				840,000	3

Taxes Accrued (Acct. 236)

Description (a)	Amount (b)	
Balance first of year	1	1
Charged water department expense	1,217,135	2
Charged electric department expense		3
Charged gas department expense		4
Charged sewer department expense	36,501	5
Total accruals and other credits	1,253,636	6
County, state and local taxes	1,179,648	7
Social Security taxes	68,285	8
PSC Remainder Assessment	5,704	9
Gross Receipts Tax	0	10
Total payments and other debits	1,253,637	11
Balance end of year	0	12

Interest Accrued (Acct. 237)

- Report below interest accrued on each utility obligation.
- Report customer deposits under account 235.

Description of Issue (a)	Interest Accrued Balance First of Year (b)	Interest Accrued During Year (c)	Interest Paid During Year (d)	Interest Accrued Balance End of Year (e)	
Bonds (221)	0	0	0	0	1
2014 GO PROMISORY NOTE	1,125	1,125	2,250	0	2
2017C WATER UTL REVENUE BONDS	25,844	151,602	152,575	24,871	3
2018B WATER UTL REVENUE BONDS	2,329	27,867	25,121	5,075	4
2019D WATER REVENUE BONDS		15,931	0	15,931	5
Subtotal Bonds (221)	29,298	196,525	179,946	45,877	6
Advances from Municipality (223)	0	0	0	0	7
None				0	8
Subtotal Advances from Municipality (223)	0	0	0	0	9
Other Long-Term Debt (224)	0	0	0	0	10
2016 WI State Trust Loan	7,216	9,666	1	16,881	11
Subtotal Other Long-Term Debt (224)	7,216	9,666	1	16,881	12
Notes Payable (231)	0	0	0	0	13
None				0	14
Subtotal Notes Payable (231)	0	0	0	0	15
Customer Deposits (235)	0	0	0	0	16
None				0	17
Subtotal Customer Deposits (235)	0	0	0	0	18
Total	36,514	206,191	179,947	62,758	19

Balance Sheet Detail - Other Accounts

Report each item (when individually or when like items are combined) greater than \$10,000 (class AB), \$5,000 (class C) and \$2,000 (class D) and all other lesser amounts grouped as Miscellaneous. Describe fully using other than account titles.

Description (a)	Balance End of Year (b)	
Other Special Funds (128)	0	1
Debt Redemption Fund	863,361	2
Total (Acct. 128)	863,361	3
Cash and Working Funds (131)	0	4
Cash	1,434,020	5
Total (Acct. 131)	1,434,020	6
Customer Accounts Receivable (142)	0	7
Water	617,806	8
Misc Customer Charges	36,272	9
Unbilled Accounts Receivable	881,982	10
Total (Acct. 142)	1,536,060	11
Other Accounts Receivable (143)	0	12
Sewer (Non-regulated)	0	13
Merchandising, jobbing and contract work	0	14
Total (Acct. 143)	0	15
Miscellaneous Current and Accrued Assets (174)	0	16
Net OPEB Asset	2,644	17
Net Pension Asset	646,042	18
Total (Acct. 174)	648,686	19
Miscellaneous Deferred Debits (186)	0	20
Regulatory Deferred Debit-change in OPEB	3,613	21
Regulatory Deferred Debit-change in pension expense	230,408	22
Total (Acct. 186)	234,021	23
Accounts Payable (232)	0	24
Accounts Payable	780,027	25
Total (Acct. 232)	780,027	26
Miscellaneous Current and Accrued Liabilities (242)	0	27
Accrued Compensated Absences	128,057	28
Accrued Salaries & Wages	57,070	29
Contract Deposits	8,069	30
Contracts Payable	101,589	31
Net OPEB Liability	29,455	32

Balance Sheet Detail - Other Accounts

Report each item (when individually or when like items are combined) greater than \$10,000 (class AB), \$5,000 (class C) and \$2,000 (class D) and all other lesser amounts grouped as Miscellaneous. Describe fully using other than account titles.

Net Pension Liability	568,307	33
Total (Acct. 242)	892,547	34
Other Deferred Credits (253)	0	35
Regulatory Liability	438,397	36
Total (Acct. 253)	438,397	37

Return on Rate Base Computation

- The data used in calculating rate base are averages.
- Calculate those averages by summing the first-of-year and the end-of-year figures for each account and then dividing the sum by two.
- For municipal utilities, do not include contributed plant in service, property held for future use, or construction work in progress with utility plant in service. These are not rate base components.
- For private utilities, do not include property held for future use, or construction work in progress with utility plant in service. These are not rate base components.

Average Rate Base (a)	Water (b)	Electric (c)	Gas (d)	Sewer (e)	Total (f)	
Add Average						1
Utility Plant in Service (101.1)	40,976,908				40,976,908	2
Materials and Supplies	283,597				283,597	3
Less Average						4
Reserve for Depreciation (111.1)	15,416,044				15,416,044	5
Customer Advances for Construction	0				0	6
Regulatory Liability	493,196				493,196	7
Average Net Rate Base	25,351,265	0	0	0	25,351,265	8
Net Operating Income	2,258,468				2,258,468	9
Net Operating Income as a percent of Average Net Rate Base	8.91%	N/A	N/A	N/A	8.91%	10

Regulatory Liability - Pre-2003 Historical Accumulated Depreciation on Contributed Utility Plant (253)

Description (a)	Water (b)	Electric (c)	Gas (d)	Sewer (e)	Total (f)	
Balance First of Year	547,996	0	0	0	547,996	1
Credits During Year					0	2
None					0	3
Charges (Deductions)					0	4
Miscellaneous Amortization (425)	109,599				109,599	5
Balance End of Year	438,397	0	0	0	438,397	6

Important Changes During the Year

Report changes of any of the following types:

1. Acquisitions

2. Leaseholder changes

3. Extensions of service

In 2019 there was the 875 ft 8" extension we completed along N River Drive. This looped our water main to the 24" WM exiting the treatment facility. This provides more water flow with less head loss in the area and improves our fire protection capacity in this area.

4. Estimated changes in revenues due to rate changes

3% Rate Increase went into effect August 1, 2019.

5. Obligations incurred or assumed, excluding commercial paper

Issued Revenue Bonds in the amount of \$2,695,000 to finance capital asset projects.

6. Formal proceedings with the Public Service Commission

7. Any additional matters

Water Operating Revenues & Expenses

Description (a)	This Year (b)	Last Year (c)	
Operating Revenues - Sales of Water			1
Sales of Water (460-467)	5,605,273	5,616,448	2
Total Sales of Water	5,605,273	5,616,448	3
Other Operating Revenues			4
Forfeited Discounts (470)	77,655	111,078	5
Rents from Water Property (472)	25,000	56,680	6
Interdepartmental Rents (473)	0	0	7
Other Water Revenues (474)	1,534,939	86,838	8
Total Other Operating Revenues	1,637,594	254,596	9
Total Operating Revenues	7,242,867	5,871,044	10
Operation and Maintenance Expenses			11
Source of Supply Expense (600-617)	0	29,285	12
Pumping Expenses (620-633)	532,182	466,780	13
Water Treatment Expenses (640-652)	505,610	493,475	14
Transmission and Distribution Expenses (660-678)	1,127,604	1,224,285	15
Customer Accounts Expenses (901-906)	149,620	139,032	16
Sales Expenses (910)	0	0	17
Administrative and General Expenses (920-932)	621,441	664,760	18
Total Operation and Maintenance Expenses	2,936,457	3,017,617	19
Other Operating Expenses			20
Depreciation Expense (403)	830,807	776,940	21
Amortization Expense (404-407)			22
Taxes (408)	1,217,135	1,198,756	23
Total Other Operating Expenses	2,047,942	1,975,696	24
Total Operating Expenses	4,984,399	4,993,313	25
NET OPERATING INCOME	2,258,468	877,731	26

Water Operating Revenues - Sales of Water

- Where customer meters record cubic feet, multiply by 7.48 to obtain number of gallons.
- Report estimated gallons for unmetered sales.
- Sales to multiple dwelling buildings through a single meter serving 3 or more family units should be classified multifamily residential.
- Account 460, Unmetered Sales to General Customers - Gallons of Water Sold should not include in any way quantity of water, i.e. metered or measured by tank of pool volume. The quantity should be estimated based on size of pipe, flow, foot of frontage, etc. Bulk water sales should be Account 460 if the quantity is estimated and should be Account 461 if metered or measured by volume. Water related to construction should be a measured sale of water (Account 461).
- Report average number of individually-metered accounts (meters). The amount reported should be the average meter count. E.g. if a hospital has 5 meters, a total of 5 meters should be reported on this schedule in column b (Average No. of Customers).
- Do not include meters or revenue billed under Schedule Am-1 (Additional Meter Rental Charge) in Account 461. Record revenues billed under Schedule Am-1 in Account 474.

Description (a)	Average No. Customer (b)	Thousand of Gallons of Water Sold (c)	Amount (d)	
Unmetered Sales to General Customers (460)				1
Residential (460.1)				2
Commercial (460.2)				3
Industrial (460.3)				4
Public Authority (460.4)				5
Multifamily Residential (460.5)				6
Irrigation (460.6)				7
Total Unmetered Sales to General Customers (460)	0	0	0	8
Metered Sales to General Customers (461)				9
Residential (461.1)	14,146	521,402	2,513,262	10
Commercial (461.2)	1,346	270,036	891,905	11
Industrial (461.3)	85	254,307	676,388	12
Public Authority (461.4)	112	82,380	237,609	13
Multifamily Residential (461.5)	136	31,472	114,289	14
Irrigation (461.6)	379	50,543	251,378	15
Total Metered Sales to General Customers (461)	16,204	1,210,140	4,684,831	16
Private Fire Protection Service (462)	225		87,450	17
Public Fire Protection Service (463)	15,568		815,946	18
Other Water Sales (465)				19
Sales for Resale (466)	1	8,096	17,046	20
Interdepartmental Sales (467)				21
Total Sales of Water	31,998	1,218,236	5,605,273	22

Sales for Resale (Acct. 466)

Use a separate line for each delivery point.

Customer Name (a)	Point of Delivery (b)	Thousands of Gallons Sold (c)	Revenues (d)	
Maine Water Utility	20TH AVENUE BOOSTER STATION	8,096	17,046	1
Total		8,096	17,046	2

Other Operating Revenues (Water)

- Report revenues relating to each account and fully describe each item using other than the account title.
- Report each item (when individually or when like items are combined) greater than \$10,000 (class AB), \$5,000 (class C) and \$2,000 (class D and privates) and all other lesser amounts grouped as Miscellaneous.
- For a combined utility which also provides sewer service that is based upon water readings, report the return on net investment in meters charged to sewer department in Other Water Revenues (474).

Description (a)	Amount (b)	
Public Fire Protection Service (463)		1
Amount billed (usually per rate schedule F-1 or Fd-1)	814,420	2
Wholesale fire protection billed	1,526	3
Amount billed for fighting fires outside utility's service areas (usually per rate schedule F-2 or BW-1)	0	4
Total Public Fire Protection Service (463)	815,946	5
Forfeited Discounts (470)		6
Customer late payment charges	77,655	7
Total Forfeited Discounts (470)	77,655	8
Rents from Water Property (472)		9
Rent of tower for cellular antennas	25,000	10
Total Rents from Water Property (472)	25,000	11
Interdepartmental Rents (473)		12
None		13
Total Interdepartmental Rents (473)	0	14
Other Water Revenues (474)		15
Return on net investment in meters charged to sewer department	35,680	16
Incidental Services	4,231	17
Inspection Services	250	18
Sale of Scrap	22,873	19
Transfer from Capital Project	1,471,625	20
Turn on Charges	280	21
Total Other Water Revenues (474)	1,534,939	22

Other Operating Revenues (Water)

- Report revenues relating to each account and fully describe each item using other than the account title.
 - Report each item (when individually or when like items are combined) greater than \$10,000 (class AB), \$5,000 (class C) and \$2,000 (class D and privates) and all other lesser amounts grouped as Miscellaneous.
 - For a combined utility which also provides sewer service that is based upon water readings, report the return on net investment in meters charged to sewer department in Other Water Revenues (474).

Other Operating Revenues (Water) (Page W-04)

Explain all amounts in Account 474 in excess of \$10,000.

Acct 474 Other Water Revenue > \$10K is from Return on Investment charge to Sewer Utility for share of meter expense and from Sale of Scrap.

Water Operation & Maintenance Expenses

- Each expense account that has a difference between This Year and Last Year greater than 15 percent and \$10,000 (class AB), 15 percent and \$5,000 (class C), 15 percent and \$1,000 (class D) shall be fully explained. Please include breakdown of costs that contributed to the difference. Please reference the help document for more information.
- Class C and class D report all expenses in Other Expense (column c)

Description (a)	Labor Expense (b)	Other Expense (c)	Total This Year (d)	Last Year (e)	
SOURCE OF SUPPLY EXPENSES					1
Operation Supervision and Engineering (600)			0	0	2
Operation Labor and Expenses (601)			0	0	3
Purchased Water (602)			0	0	4
Miscellaneous Expenses (603)			0	29,285 *	5
Rents (604)			0	0	6
Maintenance Supervision and Engineering (610)			0	0	7
Maintenance of Structures and Improvements (611)			0	0	8
Maintenance of Collecting and Impounding Reservoirs (612)			0	0	9
Maintenance of Lake, River and Other Intakes (613)			0	0	10
Maintenance of Wells and Springs (614)			0	0	11
Maintenance of Supply Mains (616)			0	0	12
Maintenance of Miscellaneous Water Source Plant (617)			0	0	13
Total Source of Supply Expenses	0	0	0	29,285	14
PUMPING EXPENSES					15
Operation Supervision and Engineering (620)	32,062	5,592	37,654	36,674	16
Fuel for Power Production (621)			0	0	17
Power Production Labor and Expenses (622)			0	0	18
Fuel or Power Purchased for Pumping (623)		279,630	279,630	282,641	19
Pumping Labor and Expenses (624)	36,185		36,185	37,862	20
Expenses Transferred--Credit (625)			0	0	21
Miscellaneous Expenses (626)	30,463	14,910	45,373	37,018	22
Rents (627)			0	0	23
Maintenance Supervision and Engineering (630)			0	0	24
Maintenance of Structures and Improvements (631)	8,042	16,807	24,849	39,252 *	25
Maintenance of Power Production Equipment (632)	2,614	1,452	4,066	4,367	26
Maintenance of Pumping Equipment (633)	11,815	92,610	104,425	28,966 *	27
Total Pumping Expenses	121,181	411,001	532,182	466,780	28
WATER TREATMENT EXPENSES					29
Operation Supervision and Engineering (640)	17,031		17,031	19,198	30
Chemicals (641)		340,260	340,260	299,719	31
Operation Labor and Expenses (642)	36,686	7,662	44,348	45,291	32
Miscellaneous Expenses (643)	24,232	5,856	30,088	36,578	33
Rents (644)			0	0	34
Maintenance Supervision and Engineering (650)			0	0	35
Maintenance of Structures and Improvements (651)	6,373	8,195	14,568	25,139 *	36
Maintenance of Water Treatment Equipment (652)	29,986	29,329	59,315	67,550	37
Total Water Treatment Expenses	114,308	391,302	505,610	493,475	38
TRANSMISSION AND DISTRIBUTION EXPENSES					39
Operation Supervision and Engineering (660)			0	0	40

Water Operation & Maintenance Expenses

- Each expense account that has a difference between This Year and Last Year greater than 15 percent and \$10,000 (class AB), 15 percent and \$5,000 (class C), 15 percent and \$1,000 (class D) shall be fully explained. Please include breakdown of costs that contributed to the difference. Please reference the help document for more information.
- Class C and class D report all expenses in Other Expense (column c)

Description (a)	Labor Expense (b)	Other Expense (c)	Total This Year (d)	Last Year (e)	
Storage Facilities Expenses (661)		16,225	16,225	63,124 *	41
Transmission and Distribution Lines Expenses (662)		22,178	22,178	29,236	42
Meter Expenses (663)	25,838	506	26,344	39,134 *	43
Customer Installations Expenses (664)		49,976	49,976	37,653 *	44
Miscellaneous Expenses (665)		31,717	31,717	31,371	45
Rents (666)		370	370	370	46
Maintenance Supervision and Engineering (670)	32,062		32,062	31,842	47
Maintenance of Structures and Improvements (671)			0	0	48
Maintenance of Distribution Reservoirs and Standpipes (672)	469	1,024	1,493	2,148	49
Maintenance of Transmission and Distribution Mains (673)	271,155	187,298	458,453	402,715	50
Maintenance of Services (675)	144,200	240,556	384,756	424,874	51
Maintenance of Meters (676)	36,401	52,418	88,819	147,377 *	52
Maintenance of Hydrants (677)	15,211		15,211	14,441	53
Maintenance of Miscellaneous Plant (678)			0	0	54
Total Transmission and Distribution Expenses	525,336	602,268	1,127,604	1,224,285	55
CUSTOMER ACCOUNTS EXPENSES					56
Supervision (901)	9,073		9,073	8,908	57
Meter Reading Expenses (902)	648	11,318	11,966	5,898	58
Customer Records and Collection Expenses (903)	82,148	44,936	127,084	123,242	59
Uncollectible Accounts (904)		1,497	1,497	984	60
Miscellaneous Customer Accounts Expenses (905)			0	0	61
Customer Service and Informational Expenses (906)			0	0	62
Total Customer Accounts Expenses	91,869	57,751	149,620	139,032	63
SALES EXPENSES					64
Sales Expenses (910)			0	0	65
Total Sales Expenses	0	0	0	0	66
ADMINISTRATIVE AND GENERAL EXPENSES					67
Administrative and General Salaries (920)	71,916		71,916	71,333	68
Office Supplies and Expenses (921)		43,899	43,899	43,377	69
Administrative Expenses Transferred--Credit (922)			0	0	70
Outside Services Employed (923)	101,989	59,746	161,735	160,382	71
Property Insurance (924)		15,740	15,740	14,894	72
Injuries and Damages (925)		24,750	24,750	22,928	73
Employee Pensions and Benefits (926)		280,654	280,654	328,037	74
Regulatory Commission Expenses (928)			0	0	75
Duplicate Charges--Credit (929)			0	0	76
Miscellaneous General Expenses (930)		1,020	1,020	125	77
Rents (931)			0	0	78
Maintenance of General Plant (932)	10,140	11,587	21,727	23,684	79
Total Administrative and General Expenses	184,045	437,396	621,441	664,760	80

Water Operation & Maintenance Expenses

- Each expense account that has a difference between This Year and Last Year greater than 15 percent and \$10,000 (class AB), 15 percent and \$5,000 (class C), 15 percent and \$1,000 (class D) shall be fully explained. Please include breakdown of costs that contributed to the difference. Please reference the help document for more information.
- Class C and class D report all expenses in Other Expense (column c)

Description (a)	Labor Expense (b)	Other Expense (c)	Total This Year (d)	Last Year (e)	
TOTAL OPERATION AND MAINTENANCE EXPENSES	1,036,739	1,899,718	2,936,457	3,017,617	81

Water Operation & Maintenance Expenses

- Each expense account that has a difference between This Year and Last Year greater than 15 percent and \$10,000 (class AB), 15 percent and \$5,000 (class C), 15 percent and \$1,000 (class D) shall be fully explained. Please include breakdown of costs that contributed to the difference. Please reference the help document for more information.
- Class C and class D report all expenses in Other Expense (column c)

Water Operation & Maintenance Expenses (Page W-05)

Explain all This Year amounts that are more than 15% and \$10,000 higher or lower than the Last Year amount. Please see the help document for examples.

Acct 603 Amortization of Well Investigation costs ended
Acct 631 Less Storage Building maintenance expense since prior year included roof maintenance
Acct 633 Increased maintenance expense due to Well 11 Rehab
Acct 651 Decrease in Water Plant maintenance due to substantial preventative maintenance in prior year.
Acct 661 Less maintenance exp for reservoir inspection and cleaning, prior year exp for safety items and mixing system.
Acct 663 Decreased meter testing while in process of transitioning meter equipment
Acct 664 Increased exp due to Leak Detection Inspection conducted every 2 years
Acct 676 Decreased meter maintenance while in process of transitioning meter equipment

Taxes (Acct. 408 - Water)

When allocation of taxes is made between departments, explain method used.

Description of Tax (a)	This Year (b)	Last Year (c)	
Property Tax Equivalent	1,179,648	1,165,911	1
Less: Local and School Tax Equivalent on Meters Charged to Sewer Department	36,501	35,249	2
Net Property Tax Equivalent	1,143,147	1,130,662	3
Social Security	68,284	62,718	4
PSC Remainder Assessment	5,704	5,376	5
Total Tax Expense	1,217,135	1,198,756	6

Water Property Tax Equivalent - Detail

- No property tax equivalent shall be determined for sewer utilities or town sanitary district water utilities.
- Tax rates are those issued in November (usually) of the year being reported and are available from the municipal treasurer. Report the tax rates in mills to six (6) decimal places.
- The assessment ratio is available from the municipal treasurer. Report the ratio as a decimal to six (6) places.
- The utility plant balance first of year should include the gross book values of plant in service (total of utility financed and contributed plant), property held for future use and construction work in progress.
- An "other tax rate" is included in the "Net Local and School Tax Rate Calculation" to the extent that it is local. An example is a local library tax. Fully explain the rate in the Property Tax Equivalent schedule footnotes.
- Property Tax Equivalent - Total**
If the municipality has authorized a lower tax equivalent amount, the authorization description and date of the authorization must be reported in the schedule footnotes. If the municipality has NOT authorized a lower amount, leave the cell blank.

COUNTY: MARATHON(1)

SUMMARY OF TAX RATES

1. State Tax Rate	mills	0.000000
2. County Tax Rate	mills	5.159190
3. Local Tax Rate	mills	10.486002
4. School Tax Rate	mills	11.780675
5. Vocational School Tax Rate	mills	1.386482
6. Other Tax Rate - Local	mills	0.000000
7. Other Tax Rate - Non-Local	mills	0.000000
8. Total Tax Rate	mills	28.812349
9. Less: State Credit	mills	1.865155
11. Net Tax Rate	mills	26.947194

PROPERTY TAX EQUIVALENT CALCULATION

12. Local Tax Rate	mills	10.486002
13. Combined School Tax Rate	mills	13.167157
14. Other Tax Rate - Local	mills	0.000000
15. Total Local & School Tax Rate	mills	23.653159
16. Total Tax Rate	mills	28.812349
17. Ratio of Local and School Tax to Total	dec.	0.820938
18. Total Tax Net of State Credit	mills	26.947194
19. Net Local and School Tax Rate	mills	22.121982
20. Utility Plant, Jan 1	\$	57,922,748
21. Materials & Supplies	\$	275,044
22. Subtotal	\$	58,197,792
23. Less: Plant Outside Limits	\$	0
24. Taxable Assets	\$	58,197,792
25. Assessment Ratio	dec.	0.916267
26. Assessed Value	\$	53,324,716
27. Net Local and School Tax Rate	mills	22.121982
28. Tax Equiv. Computed for Current Year	\$	1,179,648

PROPERTY TAX EQUIVALENT - TOTAL

PROPERTY TAX EQUIVALENT CALCULATION

1. Utility Plant, Jan 1	\$	57,922,748
2. Materials & Supplies	\$	275,044
3. Subtotal	\$	58,197,792
4. Less: Plant Outside Limits	\$	0
5. Taxable Assets	\$	58,197,792
6. Assessed Value	\$	53,324,716
7. Tax Equiv. Computed for Current Year	\$	1,179,648
8. Tax Equivalent per 1994 PSC Report	\$	545,935
9. Amount of Lower Tax Equiv. as Authorized by Municipality for Current Year (see notes)	\$	
10. Tax Equivalent for Current Year (see notes)	\$	1,179,648

Water Utility Plant in Service - Plant Financed by Utility or Municipality

- All adjustments, corrections and reclassifications (including to/from plant financed by contributions) should be reported in Column (e), Adjustments.
- Explain fully as a footnote the nature of all entries reported in Column (e), Adjustments.
- For each account over \$50,000 (class AB) or \$25,000 (class C) or \$10,000 (class D), explain in the footnotes section the dollar additions and retirements. If applicable, the footnotes should cite construction authorization, complete with PSC docket number.
- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount as a schedule footnote.
- The treatment plant accounts have changed since 2008 and that they should confirm the dollar amounts are in the right account.
- [PSC Uniform System of Accounts](#)

Accounts (a)	Balance First of Year (b)	Additions During Year (c)	Retirements During Year (d)	Adjustments Increase or (Decrease) (e)	Balance End of Year (f)	
INTANGIBLE PLANT						1
Organization (301)	0				0	2
Franchises and Consents (302)	0				0	3
Miscellaneous Intangible Plant (303)	0				0	4
Total Intangible Plant	0	0	0	0	0	5
SOURCE OF SUPPLY PLANT						6
Land and Land Rights (310)	73,422				73,422	7
Structures and Improvements (311)	0				0	8
Collecting and Impounding Reservoirs (312)	0				0	9
Lake, River and Other Intakes (313)	0				0	10
Wells and Springs (314)	559,740				559,740	11
Supply Mains (316)	994,820				994,820	12
Other Water Source Plant (317)	0				0	13
Total Source of Supply Plant	1,627,982	0	0	0	1,627,982	14
PUMPING PLANT						15
Land and Land Rights (320)	32,529				32,529	16
Structures and Improvements (321)	678,834	440,333			1,119,167 *	17
Other Power Production Equipment (323)	0	80,061			80,061 *	18
Electric Pumping Equipment (325)	633,724	120,091			753,815 *	19
Diesel Pumping Equipment (326)	0				0	20
Other Pumping Equipment (328)	98,371				98,371	21
Total Pumping Plant	1,443,458	640,485	0	0	2,083,943	22
WATER TREATMENT PLANT						23
Land and Land Rights (330)	976,008			(965,203)	10,805 *	24
Structures and Improvements (331)	3,510,812				3,510,812	25
Sand or Other Media Filtration Equipment (332)	4,057,118			(3,564,710)	492,408	26
Membrane Filtration Equipment (333)	0				0	27
Other Water Treatment Equipment (334)	0			3,564,710	3,564,710	28
Total Water Treatment Plant	8,543,938	0	0	(965,203)	7,578,735	29
TRANSMISSION AND DISTRIBUTION PLANT						30
Land and Land Rights (340)	48,775				48,775	31
Structures and Improvements (341)	0				0	32
Distribution Reservoirs and Standpipes (342)	1,645,044	694,177			2,339,221 *	33
Transmission and Distribution Mains (343)	16,061,764	2,931,634	43,341	289,257	19,239,314 *	34
Services (345)	2,030,523	291,471	8,763	31,920	2,345,151 *	35
Meters (346)	3,601,592	51,156	125,442		3,527,306	36

Water Utility Plant in Service - Plant Financed by Utility or Municipality

- All adjustments, corrections and reclassifications (including to/from plant financed by contributions) should be reported in Column (e), Adjustments.
- Explain fully as a footnote the nature of all entries reported in Column (e), Adjustments.
- For each account over \$50,000 (class AB) or \$25,000 (class C) or \$10,000 (class D), explain in the footnotes section the dollar additions and retirements. If applicable, the footnotes should cite construction authorization, complete with PSC docket number.
- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount as a schedule footnote.
- The treatment plant accounts have changed since 2008 and that they should confirm the dollar amounts are in the right account.
- [PSC Uniform System of Accounts](#)

Accounts (a)	Balance First of Year (b)	Additions During Year (c)	Retirements During Year (d)	Adjustments Increase or (Decrease) (e)	Balance End of Year (f)	
Hydrants (348)	1,727,499	234,835	12,144		1,950,190	37
Other Transmission and Distribution Plant (349)	0				0	38
Total Transmission and Distribution Plant	25,115,197	4,203,273	189,690	321,177	29,449,957	39
GENERAL PLANT						40
Land and Land Rights (389)	5,000				5,000	41
Structures and Improvements (390)	445,976				445,976	42
Office Furniture and Equipment (391)	32,286				32,286	43
Computer Equipment (391.1)	340,419	39,213			379,632	44
Transportation Equipment (392)	568,278	162,442	102,686		628,034 *	45
Stores Equipment (393)	352				352	46
Tools, Shop and Garage Equipment (394)	226,099				226,099	47
Laboratory Equipment (395)	18,671				18,671	48
Power Operated Equipment (396)	338,780	20,000			358,780	49
Communication Equipment (397)	205,967				205,967	50
SCADA Equipment (397.1)	0				0	51
Miscellaneous Equipment (398)	0				0	52
Total General Plant	2,181,828	221,655	102,686	0	2,300,797	53
Total utility plant in service directly assignable	38,912,403	5,065,413	292,376	(644,026)	43,041,414	54
Common Utility Plant Allocated to Water Department	0				0	55
TOTAL UTILITY PLANT IN SERVICE	38,912,403	5,065,413	292,376	(644,026)	43,041,414	56

Water Utility Plant in Service - Plant Financed by Utility or Municipality

- All adjustments, corrections and reclassifications (including to/from plant financed by contributions) should be reported in Column (e), Adjustments.
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- For each account over \$50,000 (class AB) or \$25,000 (class C) or \$10,000 (class D), explain in the footnotes section the dollar additions and retirements. If applicable, the footnotes should cite construction authorization, complete with PSC docket number.
- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount as a schedule footnote.
- The treatment plant accounts have changed since 2008 and that they should confirm the dollar amounts are in the right account.
- [PSC Uniform System of Accounts](#)

Water Utility Plant in Service - Plant Financed by Utility or Municipality (Page W-08)

Additions for one or more accounts exceed \$50,000, please explain. If applicable, provide construction authorization and PSC docket number.

Acct 321: Pumping Plant Structure addition was for Industrial Park Booster Station Building.
Acct 323: Pumping Plant Other Power Equipment addition was for Industrial Park Booster Station Generator.
Acct 325: Pumping Plant Electric Pumping Equip addition was for Industrial Park Booster Station Equipment.
Acct 342: Distribution Reservoir addition was for industrial Park Water Tower.
Acct 392: Transportation Equipment additions were for a Sludge Hauling Truck and a Pick Up Truck.

General Footnote

Acct 330: Plant Land adjustment for PSC reversal of Fiance Department prior year land purchase not in service.
Acct 343: Distribution Mains adjustment for PSC adjustment of Mains over retired in prior years.
Acct 345 Distribution Services adjustment for PSC adjustment of Services over retired in prior years.

Retirements for one or more accounts exceed \$50,000, please explain.

Acct 392: Transportation Equipment retirements were for Sludge Hauling Truck and Pick Up Truck.

Water Utility Plant in Service - Plant Financed by Contributions

- All adjustments, corrections and reclassifications (including to/from plant financed by contributions) should be reported in Column (e), Adjustments.
- Explain fully as a footnote the nature of all entries reported in Column (e), Adjustments.
- For each account over \$50,000 (class AB) or \$25,000 (class C) or \$10,000 (class D), explain in the footnotes section the dollar additions and retirements. If applicable, the footnotes should cite construction authorization, complete with PSC docket number.
- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount as a schedule footnote.
- The treatment plant accounts have changed since 2008 and that they should confirm the dollar amounts are in the right account.
- [PSC Uniform System of Accounts](#)

Accounts (a)	Balance First of Year (b)	Additions During Year (c)	Retirements During Year (d)	Adjustments Increase or (Decrease) (e)	Balance End of Year (f)	
INTANGIBLE PLANT						1
Organization (301)	0				0	2
Franchises and Consents (302)	0				0	3
Miscellaneous Intangible Plant (303)	0				0	4
Total Intangible Plant	0	0	0	0	0	5
SOURCE OF SUPPLY PLANT						6
Land and Land Rights (310)	0				0	7
Structures and Improvements (311)	0				0	8
Collecting and Impounding Reservoirs (312)	0				0	9
Lake, River and Other Intakes (313)	0				0	10
Wells and Springs (314)	0				0	11
Supply Mains (316)	0				0	12
Other Water Source Plant (317)	0				0	13
Total Source of Supply Plant	0	0	0	0	0	14
PUMPING PLANT						15
Land and Land Rights (320)	0				0	16
Structures and Improvements (321)	599,987				599,987	17
Other Power Production Equipment (323)	0				0	18
Electric Pumping Equipment (325)	491,618				491,618	19
Diesel Pumping Equipment (326)	0				0	20
Other Pumping Equipment (328)	38,934				38,934	21
Total Pumping Plant	1,130,539	0	0	0	1,130,539	22
WATER TREATMENT PLANT						23
Land and Land Rights (330)	0				0	24
Structures and Improvements (331)	0				0	25
Sand or Other Media Filtration Equipment (332)	0				0	26
Membrane Filtration Equipment (333)	0				0	27
Other Water Treatment Equipment (334)	0				0	28
Total Water Treatment Plant	0	0	0	0	0	29
TRANSMISSION AND DISTRIBUTION PLANT						30
Land and Land Rights (340)	0				0	31
Structures and Improvements (341)	0				0	32
Distribution Reservoirs and Standpipes (342)	0				0	33
Transmission and Distribution Mains (343)	15,194,374		43,341	289,257	15,440,290 *	34
Services (345)	1,101,707		9,120	31,919	1,124,506 *	35
Meters (346)	0				0	36

Water Utility Plant in Service - Plant Financed by Contributions

- All adjustments, corrections and reclassifications (including to/from plant financed by contributions) should be reported in Column (e), Adjustments.
- Explain fully as a footnote the nature of all entries reported in Column (e), Adjustments.
- For each account over \$50,000 (class AB) or \$25,000 (class C) or \$10,000 (class D), explain in the footnotes section the dollar additions and retirements. If applicable, the footnotes should cite construction authorization, complete with PSC docket number.
- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount as a schedule footnote.
- The treatment plant accounts have changed since 2008 and that they should confirm the dollar amounts are in the right account.
- [PSC Uniform System of Accounts](#)

Accounts (a)	Balance First of Year (b)	Additions During Year (c)	Retirements During Year (d)	Adjustments Increase or (Decrease) (e)	Balance End of Year (f)	
Hydrants (348)	1,293,404	7,093	12,144		1,288,353	37
Other Transmission and Distribution Plant (349)	0				0	38
Total Transmission and Distribution Plant	17,589,485	7,093	64,605	321,176	17,853,149	39
GENERAL PLANT						40
Land and Land Rights (389)	0				0	41
Structures and Improvements (390)	0				0	42
Office Furniture and Equipment (391)	0				0	43
Computer Equipment (391.1)	0				0	44
Transportation Equipment (392)	0				0	45
Stores Equipment (393)	0				0	46
Tools, Shop and Garage Equipment (394)	0				0	47
Laboratory Equipment (395)	0				0	48
Power Operated Equipment (396)	0				0	49
Communication Equipment (397)	0				0	50
SCADA Equipment (397.1)	0				0	51
Miscellaneous Equipment (398)	0				0	52
Total General Plant	0	0	0	0	0	53
Total utility plant in service directly assignable	18,720,024	7,093	64,605	321,176	18,983,688	54
Common Utility Plant Allocated to Water Department	0				0	55
TOTAL UTILITY PLANT IN SERVICE	18,720,024	7,093	64,605	321,176	18,983,688	56

Water Utility Plant in Service - Plant Financed by Contributions

- All adjustments, corrections and reclassifications (including to/from plant financed by contributions) should be reported in Column (e), Adjustments.
- Explain fully as a footnote the nature of all entries reported in Column (e), Adjustments.
- For each account over \$50,000 (class AB) or \$25,000 (class C) or \$10,000 (class D), explain in the footnotes section the dollar additions and retirements. If applicable, the footnotes should cite construction authorization, complete with PSC docket number.
- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount as a schedule footnote.
- The treatment plant accounts have changed since 2008 and that they should confirm the dollar amounts are in the right account.
- [PSC Uniform System of Accounts](#)

Water Utility Plant in Service - Plant Financed by Contributions (Page W-09)

General Footnote

Acct 343: Distribution Mains adjustment by PSC for Mains over retired in prior years.

Acct 345: Distribution Services adjustment by PSC for Services over retired in prior years.

Water Accumulated Provision for Depreciation - Plant Financed by Utility or Municipality

- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount in a schedule footnote.
- If more than one depreciation rate is used, report the average rate in column (c).
- Enter depreciation rates in decimal form. For example, enter 6.75% as 0.0675

Primary Plant Accounts (a)	Balance First of Year (b)	Rate % Used (c)	Accruals During Year (d)	Book Cost of Plant Retired (e)	Cost of Removal (f)	Salvage (g)	Adjustments Increase or (Decrease) (h)	Balance End of Year (i)	
SOURCE OF SUPPLY PLANT									1
Structures and Improvements (311)	0							0	2
Collecting and Impounding Reservoirs (312)	0							0	3
Lake, River and Other Intakes (313)	0							0	4
Wells and Springs (314)	428,191	2.90%	16,232					444,423	5
Supply Mains (316)	438,077	1.80%	17,907					455,984	6
Other Water Source Plant (317)	0							0	7
Total Source of Supply Plant	866,268		34,139	0	0	0	0	900,407	8
PUMPING PLANT									9
Structures and Improvements (321)	318,298	3.20%	26,126					344,424	10
Other Power Production Equipment (323)	0	4.40%	1,761					1,761	11
Electric Pumping Equipment (325)	598,541	4.40%	1,740					600,281	12
Diesel Pumping Equipment (326)	0							0	13
Other Pumping Equipment (328)	66,182	4.40%	4,328					70,510	14
Total Pumping Plant	983,021		33,955	0	0	0	0	1,016,976	15
WATER TREATMENT PLANT									16
Structures and Improvements (331)	2,112,126	3.20%	112,346					2,224,472	17
Sand or Other Media Filtration Equipment (332)	3,441,254	3.30%	16,249				(3,023,592)	433,911	18
Membrane Filtration Equipment (333)	0							0	19
Other Water Treatment Equipment (334)	0	3.30%	117,636				3,023,592	3,141,228	20
Total Water Treatment Plant	5,553,380		246,231	0	0	0	0	5,799,611	21
TRANSMISSION AND DISTRIBUTION PLANT									22
Structures and Improvements (341)	0							0	23
Distribution Reservoirs and Standpipes (342)	1,017,264	1.90%	37,850					1,055,114	24
Transmission and Distribution Mains (343)	1,717,089	1.30%	231,056	43,341			289,257	2,194,061	25
Services (345)	715,718	2.90%	63,783	8,763			31,920	802,658	26
Meters (346)	2,278,955	5.50%	192,595	125,442				2,346,108	27

Water Accumulated Provision for Depreciation - Plant Financed by Utility or Municipality

- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount in a schedule footnote.
- If more than one depreciation rate is used, report the average rate in column (c).
- Enter depreciation rates in decimal form. For example, enter 6.75% as 0.0675

Primary Plant Accounts (a)	Balance First of Year (b)	Rate % Used (c)	Accruals During Year (d)	Book Cost of Plant Retired (e)	Cost of Removal (f)	Salvage (g)	Adjustments Increase or (Decrease) (h)	Balance End of Year (i)	
Hydrants (348)	460,042	2.20%	40,321	12,144				488,219	28
Other Transmission and Distribution Plant (349)	0							0	29
Total Transmission and Distribution Plant	6,189,068		565,605	189,690	0	0	321,177	6,886,160	30
GENERAL PLANT									31
Structures and Improvements (390)	344,313	2.90%	12,547					356,860	32
Office Furniture and Equipment (391)	28,342	5.80%	571					28,913	33
Computer Equipment (391.1)	306,070	25.00%	20,481					326,551	34
Transportation Equipment (392)	310,735	13.30%	48,891	102,686				256,940	35
Stores Equipment (393)	352	5.80%						352	36
Tools, Shop and Garage Equipment (394)	106,150	5.80%	12,146					118,296	37
Laboratory Equipment (395)	18,671	5.80%						18,671	38
Power Operated Equipment (396)	157,086	7.50%	24,800					181,886	39
Communication Equipment (397)	197,488	15.00%	3,154					200,642	40
SCADA Equipment (397.1)	0							0	41
Miscellaneous Equipment (398)	0							0	42
Total General Plant	1,469,207		122,590	102,686	0	0	0	1,489,111	43
Total accum. prov. directly assignable	15,060,944		1,002,520	292,376	0	0	321,177	16,092,265	44
Common Utility Plant Allocated to Water Department	0							0	45
TOTAL ACCUM, PROV, FOR DEPRECIATION	15,060,944		1,002,520	292,376	0	0	321,177	16,092,265	46

Water Accumulated Provision for Depreciation - Plant Financed by Utility or Municipality

- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount in a schedule footnote.
- If more than one depreciation rate is used, report the average rate in column (c).
- Enter depreciation rates in decimal form. For example, enter 6.75% as 0.0675

Water Accumulated Provision for Depreciation - Plant Financed by Utility or Municipality (Page W-10)

Adjustments are nonzero for one or more accounts, please explain.

Adjustments made per PSC request to segregate plant equipment from filtering equipment and re-establish depreciation for infrastructure over retired in previous years.

Water Accumulated Provision for Depreciation - Plant Financed by Contributions

- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount in a schedule footnote.
- If more than one depreciation rate is used, report the average rate in column (c).
- Enter depreciation rates in decimal form. For example, enter 6.75% as 0.0675

Primary Plant Accounts (a)	Balance First of Year (b)	Rate % Used (c)	Accruals During Year (d)	Book Cost of Plant Retired (e)	Cost of Removal (f)	Salvage (g)	Adjustments Increase or (Decrease) (h)	Balance End of Year (i)	
SOURCE OF SUPPLY PLANT									1
Structures and Improvements (311)	0							0	2
Collecting and Impounding Reservoirs (312)	0							0	3
Lake, River and Other Intakes (313)	0							0	4
Wells and Springs (314)	0							0	5
Supply Mains (316)	0							0	6
Other Water Source Plant (317)	0							0	7
Total Source of Supply Plant	0		0	0	0	0	0	0	8
PUMPING PLANT									9
Structures and Improvements (321)	232,883	3.20%	19,200					252,083	10
Other Power Production Equipment (323)	0							0	11
Electric Pumping Equipment (325)	314,449	4.40%	21,631					336,080	12
Diesel Pumping Equipment (326)	0							0	13
Other Pumping Equipment (328)	23,646	4.40%	1,714					25,360	14
Total Pumping Plant	570,978		42,545	0	0	0	0	613,523	15
WATER TREATMENT PLANT									16
Structures and Improvements (331)	0							0	17
Sand or Other Media Filtration Equipment (332)	0							0	18
Membrane Filtration Equipment (333)	0							0	19
Other Water Treatment Equipment (334)	0							0	20
Total Water Treatment Plant	0		0	0	0	0	0	0	21
TRANSMISSION AND DISTRIBUTION PLANT									22
Structures and Improvements (341)	0							0	23
Distribution Reservoirs and Standpipes (342)	0							0	24
Transmission and Distribution Mains (343)	3,366,621	1.30%	200,724	43,341			289,257	3,813,261	25
Services (345)	642,989	2.90%	32,610	9,120			31,919	698,398	26
Meters (346)	0							0	27

Water Accumulated Provision for Depreciation - Plant Financed by Contributions

- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount in a schedule footnote.
- If more than one depreciation rate is used, report the average rate in column (c).
- Enter depreciation rates in decimal form. For example, enter 6.75% as 0.0675

Primary Plant Accounts (a)	Balance First of Year (b)	Rate % Used (c)	Accruals During Year (d)	Book Cost of Plant Retired (e)	Cost of Removal (f)	Salvage (g)	Adjustments Increase or (Decrease) (h)	Balance End of Year (i)	
Hydrants (348)	556,942	2.20%	28,265	12,144				573,063	28
Other Transmission and Distribution Plant (349)	0							0	29
Total Transmission and Distribution Plant	4,566,552		261,599	64,605	0	0	321,176	5,084,722	30
GENERAL PLANT									31
Structures and Improvements (390)	0							0	32
Office Furniture and Equipment (391)	0							0	33
Computer Equipment (391.1)	0							0	34
Transportation Equipment (392)	0							0	35
Stores Equipment (393)	0							0	36
Tools, Shop and Garage Equipment (394)	0							0	37
Laboratory Equipment (395)	0							0	38
Power Operated Equipment (396)	0							0	39
Communication Equipment (397)	0							0	40
SCADA Equipment (397.1)	0							0	41
Miscellaneous Equipment (398)	0							0	42
Total General Plant	0		0	0	0	0	0	0	43
Total accum. prov. directly assignable	5,137,530		304,144	64,605	0	0	321,176	5,698,245	44
Common Utility Plant Allocated to Water Department	0							0	45
TOTAL ACCUM, PROV, FOR DEPRECIATION	5,137,530		304,144	64,605	0	0	321,176	5,698,245	46

Water Accumulated Provision for Depreciation - Plant Financed by Contributions

- Use only the account titles listed. If the utility has subaccounts other than accounts 391.1 and 397.1, combine them into one total and detail by subaccount in a schedule footnote.
- If more than one depreciation rate is used, report the average rate in column (c).
- Enter depreciation rates in decimal form. For example, enter 6.75% as 0.0675

Water Accumulated Provision for Depreciation - Plant Financed by Contributions (Page W-12)

Adjustments are nonzero for one or more accounts, please explain.

Adjustments made per PSC request re-establish depreciation for infrastructure over retired in previous years.

Age of Water Mains

- If asset management, capital improvement, or other infrastructure-related documents are not available, the utility should consult other potential sources of information: the year the utility was formed, year of initial build-out area, year in which new developments, subdivisions, etc. were added. This information can be used to develop estimated figures.
- If pipe diameter value is between those offered in the column, choose the diameter that is closest to the actual value.
- Report all pipe larger than 72" in diameter in the 72" category.

Pipe Size (a)	Feet of Main										Total (l)	
	pre-1900 (b)	1901-1920 (c)	1920-1940 (d)	1941-1960 (e)	1961-1970 (f)	1971-1980 (g)	1981-1990 (h)	1991-2000 (i)	2001-2010 (j)	2011-2020 (k)		
4.000		5,172	24,129	112			113	4	238	177	29,945	1
6.000		10,903	284,807	61,735	46,660	21,364	5,530	2,351	8,596	5,725	447,671	2
8.000	23	542	26,474	2,659	23,142	59,016	87,852	55,576	103,384	53,066	411,734	3
10.000		960	7,315	23,793	823	4,949	38,011	19,347	35,984	2,463	133,645	4
12.000		737	5,485	20,874	406	5,756	10,839	29,536	24,349	19,065	117,047	5
14.000		174	331	39,826	21,015	315	14,254	974	3,662	915	81,466	6
16.000			5,288	3,803						1,900	10,991	7
24.000			11,980	510	732						13,222	8
Total	23	18,488	365,809	153,312	92,778	91,400	156,599	107,788	176,213	83,311	1,245,721	9

Describe source of information used to develop data:
GIS System Data updated by current year construction data.

Sources of Water Supply - Statistics

- For Raw Water Withdrawn, use metered volume of untreated water withdrawn from the source.
- For Finished Water Pumped, use metered volume of water pumped, adjusted for known meter errors. Describe known meter errors in Notes Section.
- If Finished Water is not metered, use Raw Water Withdrawn and subtract estimated water used in treatment.

Month (a)	Sources of Water Supply (000's gal)						Total Gallons	
	Raw Water Withdrawn		Finished Water Pumped		Purchased Water (Imported)		Entering Distribution	
	Ground Water (b)	Surface Water (c)	Ground Water (d)	Surface Water (e)	Ground Water (f)	Surface Water (g)	System (h)	
January	138,954		119,599				119,599	1
February	146,229		139,124				139,124	2
March	168,746		164,040				164,040	3
April	147,305		133,430				133,430	4
May	150,354		132,270				132,270	5
June	147,739		140,832				140,832	6
July	164,109		160,404				160,404	7
August	168,526		158,225				158,225	8
September	134,047		119,713				119,713	9
October	121,718		100,706				100,706	10
November	117,737		97,448				97,448	11
December	127,404		104,254				104,254	12
TOTAL	1,732,868	0	1,570,045	0	0	0	1,570,045	13

Water Audit and Other Statistics

- Where possible, report actual metered values. If water uses are not metered, estimate values for each line based on best available information. For assistance, refer to AWWA M36 Manual – Water Audits and Loss Control Programs.
- For unbilled, unmetered gallons (line 16), include water used for system operation and maintenance and water used for non-regulated sewer utility.
- If gallons estimated due to theft, data, and billing errors is unknown, multiply net gallons entering distribution system (line 3) by .0025.

Description (a)	Value (b)
WATER AUDIT STATISTICS	
Finished Water pumped or purchased (000s)	1,570,045
Less: Gallons (000s) sold to wholesale customers (exported water)	8,096
Subtotal: Net gallons (000s) entering distribution system	1,561,949
Less: Gallons (000s) sold to retail customers (billed, metered)	1210140
Less: Gallons (000s) sold to retail customers (billed, unmetered)	0
Gallons (000s) of Non-Revenue Water	351,809
Gallons (000s) of unbilled-metered (including customer use to prevent freezing)	1,105
Gallons (000s) of unbilled-unmetered (including unmetered flushing, fire protection)	237,752
Subtotal: Unbilled Authorized Consumption	238,857
Total Water Loss	112,952
Gallons (000s) estimated due to unauthorized consumption (includes theft) default option	3925
Gallons (000s) estimated due to data and billing errors	3925
Gallons (000s) estimated due to customer meter under-registration	3,925
Subtotal Apparent Losses	11,775
Gallons (000s) estimated due to reported leakage (mains, services, hydrants, overflows)	12,069
Gallons (000s) estimated due to unreported and background leakage	89,108
Subtotal Real Losses (leakage)	101,177
Non-Revenue Water as percentage of net water supplied	23%
Total Water Loss as percentage of net water supplied	7%
OTHER STATISTICS	
Maximum gallons (000s) pumped by all methods in any one day during reporting year	6,756
Date of maximum	08/19/2019
Cause of maximum	
Hot weather and Hydrant flushing.	
Minimum gallons (000s) pumped by all methods in any one day during reporting year	1,969
Date of minimum	11/09/2019
Total KWH used by the utility (including pumping, treatment facilities and other utility operations)	2,680,187
If water is purchased:	
Vendor Name	
Point of Delivery	
Source of purchased water	
Vendor Name (2)	
Point of Delivery (2)	
Source of purchased water (2)	
Vendor Name (3)	
Point of Delivery (3)	
Source of purchased water (3)	
Number of main breaks repaired this year	35
Number of service breaks repaired this year	16

Sources of Water Supply - Well Information

- Enter characteristics for each of the utility's functional wells (regardless of whether it is "in service" or not).
- Do not include abandoned wells on this schedule.
- All abandoned wells should be retired from the plant accounts and no longer listed in the utility's annual report.
- Abandoned wells should be permanently filled and sealed per Wisconsin Administrative codes Chapters NR811 and NR812.

Utility Name/ID for Well (a)	DNR Well ID (b)	Depth (feet) (c)	Casing Diameter (inches) (d)	Yield Per Day (gallons) (e)	In Service? (f)	
Well 10	10	164	30	502,178	Yes	1
Well 11	11	165	30	290,336	Yes	2
Well 3	3	100	18	312,020	Yes	3
Well 6	6	100	24	443,083	Yes	4
Well 7	7	100	24	232,668	Yes	5
Well 9	9	100	20	119,407	Yes	6
				1,899,692		7

Sources of Water Supply - Intake Information

- - - THIS SCHEDULE NOT APPLICABLE TO THIS UTILITY- - -

Pumping & Power Equipment

Identification (a)	Location (b)	Pump					Pump Motor or Standby Engine			
		Primary Purpose (c)	Primary Destination (d)	Year Installed (e)	Type (f)	Actual Capacity (gpm) (g)	Year Installed (j)	Type (k)	Horse- power (l)	
17TH ST BOOSTER PUMP #3	17TH ST/SILVER LANE	Booster	Distribution	2008	Centrifugal	500	2008	Electric	20	1
17TH STREET BOOSTER PUMP #1	17TH ST/SILVER LN	Booster	Distribution	2008	Vertical Turbine	53	2008	Electric	3	2
17TH STREET BOOSTER PUMP #2	17TH STREET/SILVER LN	Booster	Distribution	2008	Vertical Turbine	53	2008	Electric	3	3
17TH STREET BOOSTER PUMP #4	17TH ST/SILVER LN	Booster	Distribution	2008	Centrifugal	500	2008	Electric	20	4
18TH ST BSTR PUMP #1	18TH ST BOOSTER	Booster	Distribution	2003	Centrifugal	60	2003	Electric	3	5
18TH ST BSTR PUMP #2	18TH ST BOOSTER	Booster	Distribution	2003	Centrifugal	120	2003	Electric	7	6
18TH ST BSTR PUMP #3	18TH ST BOOSTER	Booster	Distribution	2003	Centrifugal	120	2003	Electric	7	7
18TH ST BSTR PUMP #4	18TH ST BOOSTER	Booster	Distribution	2003	Centrifugal	1,320	2003	Electric	20	8
18TH ST BSTR PUMP #5	18TH ST BOOSTER	Booster	Distribution	2003	Centrifugal	1,320	2003	Electric	20	9
28TH AV BSTR PUMP #1	28TH AVE BOOSTER	Booster	Reservoir	2010	Centrifugal	700	2010	Electric	40	10
28TH AV BSTR PUMP#2	28TH AVE BOOSTER	Booster	Reservoir	1996	Centrifugal	550	1978	Electric	50	11
84TH AVE BSTR PUMP #1	84TH AVE BOOSTER	Booster	Distribution	2018	Centrifugal	475	2018	Electric	50	12
84TH AVE BSTR PUMP #2	84TH AVE BOOSTER	Booster	Distribution	2018	Centrifugal	475	2018	Electric	50	13
84TH AVE BSTR PUMP #3	84TH AVE BOOSTER	Booster	Distribution	2018	Centrifugal	475	2018	Electric	50	14
BROKAW BSTR PUMP #1	20TH AVENUE	Booster	Distribution	2008	Centrifugal	250	2008	Electric	25	15
BROKAW BSTR PUMP #2	20TH AVENUE	Booster	Distribution	2008	Centrifugal	250	2008	Electric	25	16
BROKAW BSTR PUMP #3	20TH AVENUE	Booster	Distribution	2008	Centrifugal	250	2008	Electric	25	17
BROWN BSTR PUMP #1	BROWN ST BOOSTER	Booster	Reservoir	1996	Centrifugal	600	1996	Electric	60	18
BROWN BSTR PUMP #2	BROWN ST BOOSTER	Booster	Reservoir	1988	Centrifugal	600	1988	Electric	75	19
BROWN BSTR PUMP #3	BROWN ST BOOSTER	Booster	Reservoir	2012	Centrifugal	800	2012	Electric	60	20
ELM ST BSTR PUMP #1	ELM ST BOOSTER	Booster	Reservoir	1998	Centrifugal	80	1998	Electric	8	21

Pumping & Power Equipment

Identification (a)	Location (b)	Pump				Actual Capacity (gpm) (g)	Pump Motor or Standby Engine			
		Primary Purpose (c)	Primary Destination (d)	Year Installed (e)	Type (f)		Year Installed (j)	Type (k)	Horse- power (l)	
ELM ST BSTR PUMP #2	ELM ST BOOSTER	Booster	Reservoir	1998	Centrifugal	250	1998	Electric	20	22
ELM ST BSTR PUMP #3	ELM ST BOOSTER	Booster	Reservoir	1998	Centrifugal	250	1998	Electric	20	23
MONROE BSTR PUMP #2	MONROE ST BOOSTER	Booster	Distribution	2016	Centrifugal	570	2016	Electric	40	24
MONROE BSTR PUMP #3	MONROE ST BOOSTER	Booster	Distribution	1982	Centrifugal	600	1982	Electric	25	25
PUMP #1	FILTER PLANT	Primary	Distribution	2016	Vertical Turbine	1,200	2016	Electric	75	26
PUMP #2	FILTER PLANT	Primary	Distribution	1964	Vertical Turbine	2,400	1964	Electric	150	27
PUMP #3	FILTER PLANT	Primary	Distribution	1964	Vertical Turbine	2,400	1964	Electric	150	28
PUMP #4	FILTER PLANT	Primary	Distribution	1964	Vertical Turbine	4,200	1964	Electric	300	29
PUMP #5	FILTER PLANT	Primary	Treatment	1964	Vertical Turbine	1,000	1964	Electric	150	30
PUMP #6	FILTER PLANT	Primary	Treatment	1964	Vertical Turbine	1,000	1964	Electric	150	31
W WAUSAU BSTR PUMP #1	W WAUSAU BOOSTER	Booster	Reservoir	2016	Centrifugal	161	2016	Electric	10	32
W WAUSAU BSTR PUMP #2	W WAUSAU BOOSTER	Booster	Reservoir	2016	Centrifugal	161	2016	Electric	10	33
W WAUSAU BSTR PUMP #3	W WAUSAU BOOSTER	Booster	Reservoir	1987	Centrifugal	780	1987	Electric	30	34
WELL #10 PUMP	WELL #10	Primary	Treatment	2005	Vertical Turbine	3,000	1989	Electric	100	35
WELL #3 PUMP	WELL #3	Primary	Treatment	1980	Vertical Turbine	2,000	1984	Electric	75	36
WELL #6 PUMP	WELL #6	Primary	Treatment	1951	Vertical Turbine	1,500	1951	Electric	125	37
WELL #7 PUMP	WELL #7	Primary	Treatment	1951	Vertical Turbine	1,500	1951	Electric	75	38
WELL #9 PUMP	WELL #9	Primary	Treatment	1965	Vertical Turbine	1,000	1965	Electric	75	39
WELL 11 PUMP	WELL 11	Primary	Treatment	2001	Vertical Turbine	2,500	2001	Electric	150	40
WESTHILL BOOSTER PUMP #1	OLD COACH ROAD	Booster	Distribution	2009	Vertical Turbine	53	2009	Electric	5	41
WESTHILL BOOSTER PUMP #2	OLD COACH ROAD	Booster	Distribution	2009	Vertical Turbine	53	2009	Electric	5	42
WESTHILL BOOSTER PUMP #3	OLD COACH ROAD	Booster	Distribution	2009	Centrifugal	500	2009	Electric	30	43

Pumping & Power Equipment

Identification (a)	Location (b)	Pump				Pump Motor or Standby Engine			
		Primary Purpose (c)	Primary Destination (d)	Year Installed (e)	Type (f)	Actual Capacity (gpm) (g)	Year Installed (j)	Type (k)	Horse- power (l)
WESTHILL BOOSTER PUMP #4	OLD COACH ROAD	Booster	Distribution	2009	Centrifugal	500	2009	Electric	30

Reservoirs, Standpipes and Elevated Tanks

- Enter elevation difference between highest water level in Standpipe or Elevated Tank, (or Reservoir only on an elevated site) and the water main where the connection to the storage begins branching into the distribution system.

Facility Name (a)	Facility ID Site Code (b)	Year Constructed (c)	Type (d)	Primary Material (e)	Elevation Difference in Feet (f)	Total Capacity In Gallons (g)	
Brown Street Elevated	1	1963	Elevated Tank	Steel	168	500,000	1
Elm Street Reservoir	2	1951	Reservoir	Concrete	189	2,500,000	2
Filter Plant	3	1964	Reservoir	Concrete	0	1,000,000	3
Industrial Park	4	1985	Reservoir	Concrete	189	1,000,000	4
Innovation Way Elevated	7	2018	Elevated Tank	Steel	108	200,000	5
Wausau Avenue Elevated	5	2003	Elevated Tank	Steel	125	250,000	6
Wausau Avenue Reservoir	6	1987	Reservoir	Concrete	223	300,000	7

Water Treatment Plant

- Provide a generic description for (a). Do not give specific address of location.
- Please select all that apply for (d) and (e). If Other is selected please explain in Notes (h).
- Please identify the point of application for each treatment plant for (g). For example, please list each well or central treatment facility served by this unit.

Unit Description (a)	Year Constructed (b)	Rated Capacity (mgd) (c)	Disinfection (d)	Additional Treatment (e)	Fluoridated (f)	Point of Application (g)	Notes (h)	
FILTER PLANT	1963	12	☐ Ultraviolet Light ☐ Liquid Chlorine ☐ Gas Chlorine ☐ Ozone ☒ Other ☐ None	☐ Flocculation/Sedimentation ☒ Sand Filtration ☐ Activated Carbon Filtration ☐ Membrane Filtration ☐ Iron Exchange ☒ Iron/Manganese ☐ Nitrate Removal ☐ Radium Removal ☒ Other	Yes	Central Facilities	Col d Other- Chloramines (liquid chlorine and ammonia) Col e Other-Sodium silic	1

Water Mains

- Report mains separately by pipe material, function, diameter and either within or outside the municipal boundaries.
- Explain all reported adjustments as a schedule footnote.
- For main additions reported in column (e), as a schedule footnote:
 - Explain how the additions were funded.
 - Also report the amount assessed and the feet of main recorded under this method.
 - If installed by a developer, explain the basis of recording the cost of the additions, the total amount, and the feet of main recorded under this method.
- Report all pipe larger than 72" in diameter in the 72" category.

Pipe Material (a)	Main Function (b)	Diameter (inches) (c)	Number of Feet				End of Year (h)	
			First of Year (d)	Added During Year (e)	Retired During Year (f)	Adjustments Increase or (Decrease) (g)		
Other Metal	Distribution	2	10				10	1
Other Metal	Distribution	3	177				177	2
Other Metal	Distribution	4	29,995	13	290		29,718	3
Other Metal	Distribution	6	456,022	779	9,390		447,411	4
Other Metal	Supply	6	300				300	5
Other Metal	Distribution	8	401,306	9,414	1,717		409,003	6
Other Metal	Supply	8	2,730				2,730	7
Other Metal	Distribution	10	130,161	116	9		130,268	8
Other Metal	Supply	10	3,377				3,377	9
Other Metal	Distribution	12	105,612	12,408	3,140		114,880	10
Other Metal	Supply	12	2,167				2,167	11
Other Metal	Distribution	14	81,706	840	2,335		80,211	12
Other Metal	Supply	14	1,255				1,255	13
Other Metal	Distribution	16	5,735	1,900			7,635	14
Other Metal	Supply	16	3,356				3,356	15
Other Metal	Supply	18	5,065				5,065	16
Other Metal	Supply	20	30				30	17
Other Plastic	Supply	22	630				630	18
Other Metal	Distribution	24	1,241				1,241	19
Other Metal	Supply	24	6,235				6,235	20
Other Metal	Distribution	30	21				21	21
Total Within Municipality			1,237,131	25,470	16,881		1,245,720	22
Total Utility			1,237,131	25,470	16,881		1,245,720	23

Water Mains

- Report mains separately by pipe material, function, diameter and either within or outside the municipal boundaries.
- Explain all reported adjustments as a schedule footnote.
- For main additions reported in column (e), as a schedule footnote:
 - Explain how the additions were funded.
 - Also report the amount assessed and the feet of main recorded under this method.
 - If installed by a developer, explain the basis of recording the cost of the additions, the total amount, and the feet of main recorded under this method.
- Report all pipe larger than 72" in diameter in the 72" category.

Water Mains (Page W-21)

Added During Year total is greater than zero, please explain financing following the criteria listed in the schedule headnotes.

New/replaced mains are assessed against the abutting property owner on a per foot of frontage basis less cost of over sized mains, hydrants, and leads.

Utility-Owned Water Service Lines

- The utility's service line is the pipe from the main to and through the curb stop.
- Explain all reported adjustments as a schedule footnote.
- Report in column (h) the number of utility-owned service lines included in columns (g) which are temporarily shut off at the curb box or otherwise not in use at end of year.
- For service lines added during the year in column (d), as a schedule footnote:
 - Explain how the additions were financed.
 - If assessed against property owners, explain the basis of the assessments.
 - If installed by a property owner or developer, explain the basis of recording the cost of the additions, the total amount and the number of service lines recorded under this method.
 - If any were financed by application of Cz-1, provide the total amount recorded and the number of service lines recorded under this method.
- Report service lines separately by diameter and pipe materials.

Pipe Material (a)	Diameter (inches) (b)	First of Year (c)	Added During Year (d)	Removed or Permanently Disconnected During Year (e)	Adjustments Increase or (Decrease) (f)	End of Year (g)	NOT in Use at End of Year (h)	
Lead	0.625	135		20		115		1
Other Metal	0.625	219			(219)	0		2
Copper	0.625				219	219		3
Other Plastic	0.625	4				4		4
Lead	0.750	4,123		90		4,033		5
Other Metal	0.750	1,971		5	(1,966)	0		6
Copper	0.750				1,966	1,966		7
Lead	1.000	1,394		38		1,356		8
Other Metal	1.000	4,657		7	(4,650)	0		9
Copper	1.000		178		4,650	4,828		* 10
Other Plastic	1.000	274		10		264		11
Lead	1.250	19				19		12
Other Metal	1.250	15			(15)	0		13
Copper	1.250				15	15		14
Lead	1.500	37		1		36		15
Other Metal	1.500	1,958		6	(1,952)	0		16
Copper	1.500		16		1,952	1,968		* 17
Other Plastic	1.500	324				324		18
Lead	2.000	17		3		14		19
Other Metal	2.000	235			(235)	0		20
Copper	2.000		3		235	238		* 21
Other Plastic	2.000	12				12		22
Lead	3.000	23		1		22		23
Other Metal	3.000	61			(61)	0		24
Copper	3.000				61	61		25
Ductile Iron, Lined (late 1960's to present)	4.000		1		84	85		* 26
Lead	4.000	13				13		27
Other Metal	4.000	86		2	(84)	0		28
Ductile Iron, Lined (late 1960's to present)	6.000		14		62	76		* 29
Lead	6.000	9				9		30

Utility-Owned Water Service Lines

- The utility's service line is the pipe from the main to and through the curb stop.
- Explain all reported adjustments as a schedule footnote.
- Report in column (h) the number of utility-owned service lines included in columns (g) which are temporarily shut off at the curb box or otherwise not in use at end of year.
- For service lines added during the year in column (d), as a schedule footnote:
 - Explain how the additions were financed.
 - If assessed against property owners, explain the basis of the assessments.
 - If installed by a property owner or developer, explain the basis of recording the cost of the additions, the total amount and the number of service lines recorded under this method.
 - If any were financed by application of Cz-1, provide the total amount recorded and the number of service lines recorded under this method.
- Report service lines separately by diameter and pipe materials.

Other Metal	6.000	69		7	(62)	0		31
Ductile Iron, Lined (late 1960's to present)	8.000		2		64	66	*	32
Other Metal	8.000	66		2	(64)	0		33
Ductile Iron, Lined (late 1960's to present)	10.000		3		7	10	*	34
Other Metal	10.000	7			(7)	0		35
Utility Total		15,728	217	192	0	15,753		36

Utility-Owned Water Service Lines

- The utility's service line is the pipe from the main to and through the curb stop.
- Explain all reported adjustments as a schedule footnote.
- Report in column (h) the number of utility-owned service lines included in columns (g) which are temporarily shut off at the curb box or otherwise not in use at end of year.
- For service lines added during the year in column (d), as a schedule footnote:
 - Explain how the additions were financed.
 - If assessed against property owners, explain the basis of the assessments.
 - If installed by a property owner or developer, explain the basis of recording the cost of the additions, the total amount and the number of service lines recorded under this method.
 - If any were financed by application of Cz-1, provide the total amount recorded and the number of service lines recorded under this method.
- Report service lines separately by diameter and pipe materials.

Utility-Owned Water Service Lines (Page W-22)

Additions are greater than zero, please explain financing by following criteria listed in the schedule headnotes.

Col d- New services are billed to the property owner based on time and materials.

Adjustments are nonzero for one or more accounts, please explain.

Col f- Adjustments made to report service lines in new copper material category.

Total Utility-Owned Service Not In Use at End of Year is reported as zero, please explain.

Col h- The number of Utility owned 'Services Not In Use' at year end is unknown. Wausau Water Works' policy has been to install services to vacant properties at the time of curb and gutter installation/replacement on major street reconstructions. It's not possible to confirm the difference between services in use and active meters since some properties can have more than one meter on a service line.

Meters

- Include in Columns (b-f) meters in stock as well as those in service.
- Report in Column (c) all meters purchased during the year and in Column (d) all meters junked, sold or otherwise permanently retired during the year.
- Use Column (e) to show correction to previously reported meter count because of inventory or property record corrections
- Totals by size in Column (f) should equal same size totals in Column (s).
- Explain all reported adjustments as schedule footnote.
- Do not include station meters in the meter inventory used to complete these tables.

Number of Utility-Owned Meters

Classification of All Meters at End of Year by Customers

Size of Meter (a)	First of Year (b)	Added During Year (c)	Retired During Year (d)	Adjust. Increase or Decrease (e)	End of Year (f)	Tested During Year (g)	Residential (h)	Commercial (i)	Industrial (j)	Public Authority (k)	Multifamily Residential (l)	Irrigation (m)	Wholesale (n)	Inter-Departmental (o)	Utility Use (p)	Additional Meters (q)	In Stock (r)	Total (s)	
5/8	13,829	5	844	6	12,996	846	11,831	499	9	15	48	201					393	12,996	1
3/4	2,348	98	125	3	2,324	125	1,803	218	18	5	23	89					168	2,324	2
1	708		43	(1)	664	43	161	240	13	8	27	65					150	664	3
1 1/2	309	18	41		286	74	7	178	14	12	22	27					26	286	4
2	242	12	38	2	218	54		113	10	32	5	22					36	218	5
3	52	2	1	(1)	52	1		24	4	15	3	2					4	52	6
4	41	1	1	1	42	0		15	7	13	1	2					4	42	7
6	6				6	6		2	3								1	6	8
8	1				1	1				1								1	9
Total	17,536	136	1,093	10	16,589	1,150	13,802	1,289	78	101	129	408					782	16,589	10

Meters

- Include in Columns (b-f) meters in stock as well as those in service.
- Report in Column (c) all meters purchased during the year and in Column (d) all meters junked, sold or otherwise permanently retired during the year.
- Use Column (e) to show correction to previously reported meter count because of inventory or property record corrections
- Totals by size in Column (f) should equal same size totals in Column (s).
- Explain all reported adjustments as schedule footnote.
- Do not include station meters in the meter inventory used to complete these tables.

1. Indicate your residential meter replacement schedule:

- ☒ Meters tested once every 10 years and replaced as needed
All meters replaced within 20 years of installation
Other schedule as approved by PSC

2. Indicate the method(s) used to read customer meters

- Manually - inside the premises or remote register
Automatic meter reading (AMR), drive or walk by technology, wand or touchpad
☒ Advanced Metering Infrastructure (AMI) - fixed network (# of meter: 15807)
Other

Meters

- Include in Columns (b-f) meters in stock as well as those in service.
- Report in Column (c) all meters purchased during the year and in Column (d) all meters junked, sold or otherwise permanently retired during the year.
- Use Column (e) to show correction to previously reported meter count because of inventory or property record corrections
- Totals by size in Column (f) should equal same size totals in Column (s).
- Explain all reported adjustments as schedule footnote.
- Do not include station meters in the meter inventory used to complete these tables.

Meters (Page W-23)

Adjustments are nonzero for one or more meter sizes, please explain.

Adjustments to various meter sizes results from returns to stock, re installs, and variances in meter reporting program.

Wisconsin Administrative Code requires that meters 1 inch or smaller be tested every 10 years or replaced every 20 years. You did not meet these requirements. Please explain your program for testing and replacing meters.

Positive displacement meters 1 inch and smaller tested less than 1/10 total while in process of transitioning to new meter manufacturer.

Wisconsin Administrative Code requires that meters 3 and 4 inches be tested or replaced every 2 years. You did not meet these requirements. Please explain your program for testing and replacing meters.

Positive displacement meters 3 and 4 inch tested less than 1/2 total while in process of transitioning to new meter manufacturer.

Hydrants and Distribution System Valves

- Distinguish between fire and flushing hydrants by lead size.
 - Fire hydrants normally have a lead size of 6 inches or greater.
 - Record as a flushing hydrant where the lead size is less than 6 inches or if pressure is inadequate to provide fire flow.
- Explain all reported adjustments in the schedule footnotes.
- Report fire hydrants as within or outside the municipal boundaries.
- Number of hydrants operated during year means: opened and water withdrawn.
- Number of distribution valves operated during year means: fully opened and closed (exercised).

Hydrant Type (a)	Number In Service First of Year (b)	Added During Year (c)	Removed During Year (d)	Adjustments Increase or (Decrease) (e)	Number In Service End of Year (f)	
Fire - Outside Municipality	0				0	1
Fire - Within Municipality	1,638	50	28	0	1,660	2
Total Fire Hydrants	1,638	50	28	0	1,660	3
Flushing Hydrants	0				0	4

NR810.13(2)(a) recommends that a schedule shall be adopted and followed for operating each system valve and hydrant at least once each two years. Please provide the number operated during the year.

Number of Hydrants operated during year	1,610
Number of Distribution System Valves end of year	6,270
Number of Distribution Valves operated during Year	664

Hydrants and Distribution System Valves

- Distinguish between fire and flushing hydrants by lead size.
 - Fire hydrants normally have a lead size of 6 inches or greater.
 - Record as a flushing hydrant where the lead size is less than 6 inches or if pressure is inadequate to provide fire flow.
- Explain all reported adjustments in the schedule footnotes.
- Report fire hydrants as within or outside the municipal boundaries.
- Number of hydrants operated during year means: opened and water withdrawn.
- Number of distribution valves operated during year means: fully opened and closed (exercised).

Hydrants and Distribution System Valves (Page W-25)

General Footnote

Wausau is on a reduced valve operating program. Number of valves operated per year is generally between 600 to 800.

List of All Station and Wholesale Meters

- Definition of Station Meter is any meter in service not used to measure customer consumption.
- Definition of Wholesale Meter is any meter used to measure sales to other utilities.
- Retail customer meters should not be included in this inventory.

Purpose (a)	Meter Size (inches) (b)	Location or Description (c)	Type (d)	Date of Last Meter Test (e)		
Station Meter	10	Well 3	Other	09/05/2019	*	1
Station Meter	10	Well 6	Other	09/05/2019	*	2
Station Meter	10	Well 7	Other	09/05/2019	*	3
Station Meter	10	Well 9	Other	09/05/2019	*	4
Station Meter	14	Well 10	Other	09/05/2019	*	5
Station Meter	>= 24-inch	Water Treatment Plant	Other	11/13/2017	*	6
Wholesale Meter	8	Brokaw Booster Station	Other	09/05/2019	*	7

List of All Station and Wholesale Meters

- | |
|---|
| <ul style="list-style-type: none">• Definition of Station Meter is any meter in service not used to measure customer consumption.• Definition of Wholesale Meter is any meter used to measure sales to other utilities.• Retail customer meters should not be included in this inventory. |
|---|

List of All Station and Wholesale Meters (Page W-26)

There are one or more meters where Type is "Other," please explain.

Well House meters are propeller meters.
Well 11 with 16 inch station meter was out of service so was not tested
Treatment Plant meter is a Venture meter.

Wisconsin Administrative Code requires that station meters be tested for accuracy at least once every 2 years. The Utility did not meet these requirements. Please explain the Utility's program for testing and replacing meters.

The Utility typically tests meters every 2 years. Treatment plant meter test was delayed due to available testing equipment not large enough at the time. Plant meter is scheduled to be tested in early 2020.

Water Conservation Programs

- List all water conservation-related expenditures for the reporting year. Include administrative costs, customer outreach and education, other program costs, and payments for rebates and other customer incentives. Do not include leak detection, other water loss program costs.
- If the Commission has approved conservation program expenses, these should be charged to Account 186. Otherwise, these expenses are reported in Account 906 on Schedule W-05 (Account 691 for class D utilities).

Item Description (a)	Expenditures (b)	Number of Rebates (c)	Water Savings Gallons (d)	
Administrative and General Expenses				1
Program Administration	0	0	0	2
Customer Outreach & Education	0	0	0	3
Other Program Costs	0	0	0	4
Total Administrative and General Expenses	0	0	0	5
Customer Incentives				6
Residential Toilets	0	0	0	7
Multifamily/Commercial Toilets	0	0	0	8
Faucets	0	0	0	9
Showerheads	0	0	0	10
Clothes Washers	0	0	0	11
Dishwashers	0	0	0	12
Smart Irrigation Controller	0	0	0	13
Commercial Pre-Rinse Spray Valves	0	0	0	14
Cost Sharing Projects (Nonresidential Customers)	0	0	0	15
Customer Water Audits	0	0	0	16
Other Incentives	0	0	0	17
Total Customer Incentives	0	0	0	18
TOTAL CONSERVATION	0	0	0	19

Water Customers Served

- List the number of customer accounts in each municipality for which your utility provides retail general service. Do not include wholesale customers or fire protection accounts.
- Per Wisconsin state statute, a city, village, town or sanitary district owning water plant or equipment may serve customers outside its corporate limits, including adjoining municipalities. For purposes of this schedule, customers located "Within Muni Boundary" refers to those located inside the jurisdiction that owns the water utility.

Municipality (a)	Customers End of Year (b)	
Maine (Village)	78	1
Wausau (City) **	16,204	2
Total - Marathon County	16,282	3
Total - Customers Served	16,282	4
Total - Outside Muni Boundary	78	5
Total - Within Muni Boundary **	16,204	6

** = Within municipal boundary

Privately-Owned Water Service Lines

- The privately owned service line is the pipe from the curb stop to the meter.
- Explain all reported adjustments in columns(f) as a schedule footnote.
- Report in column (h) the number of privately-owned service lines included in columns (g) which are temporarily shut off at the curb box or otherwise not in use at end of year.
- Separate reporting of service lines by diameter and pipe material.

Pipe Material (a)	Diameter (inches) (b)	First of Year (c)	Added During Year (d)	Removed or Permanently Disconnected During Year (e)	Adjustments Increase or (Decrease) (f)	End of Year (g)	Utility Owned Service Laterals Not in Use at End of Year (i)	Replaced During Year Using Financial Assistance from Utility (h)	
Lead	0.625	2			291	293		*	1
Galvanized	0.750	31			30	61		*	2
Lead	0.750	213			141	354		*	3
Copper	0.750	245			1,237	1,482		*	4
Galvanized	1.000	6			40	46		*	5
Lead	1.000	30			23	53		*	6
Copper	1.000	366			212	578		*	7
PVC	1.000	147			89	236		*	8
Copper	1.250	17			0	17		*	9
PVC	1.250	1			4	5		*	10
Galvanized	1.500	1			0	1		*	11
Copper	1.500	53			21	74		*	12
PVC	1.500	25			31	56		*	13
Copper	2.000	6			6	12		*	14
Unlined Cast Iron (pre-early 1950's)	2.000				1	1		*	15
PVC	2.000	3			4	7		*	16
Ductile Iron, Lined (late 1960's to present)	3.000				1	1		*	17
Unlined Cast Iron (pre-early 1950's)	3.000				2	2		*	18
Lined Cast Iron (mide-1950's to early 1970)	4.000	1			0	1		*	19
Ductile Iron, Lined (late 1960's to present)	6.000	7			2	9		*	20
Lined Cast Iron (mide-1950's to early 1970)	6.000	1			0	1		*	21
Ductile Iron, Lined (late 1960's to present)	8.000	4			4	8		*	22
Ductile Iron, Lined (late 1960's to present)	10.000				1	1		*	23
Utility Total		1,159			2,140	3,299			24

Privately-Owned Water Service Lines

- The privately owned service line is the pipe from the curb stop to the meter.
- Explain all reported adjustments in columns(f) as a schedule footnote.
- Report in column (h) the number of privately-owned service lines included in columns (g) which are temporarily shut off at the curb box or otherwise not in use at end of year.
- Separate reporting of service lines by diameter and pipe material.

Privately-Owned Water Service Lines (Page W-29)

General Footnote

Privately-Owned Water Service Line counts are made during home meter inspection/replacement. Report is updated with new counts at year end. In 2019 approx. 20% of accounts counted.

Services Not In Use information is not tracked so is unknown.
