



**CITY OF RIVER FALLS WISCONSIN
UTILITY ADVISORY BOARD AGENDA
CITY HALL – COUNCIL CHAMBERS
July 18, 2016**

Call Meeting to Order: 6:30 p.m.

Roll Call

Approval of Minutes: June 20

ACTION MAY BE TAKEN ON ANY OF THE FOLLOWING ITEMS

PUBLIC COMMENTS:

CONSENT AGENDA:

1. Acknowledgement of the following minutes:
 - a. POWERful Choices Committee – 6-9-1

RESOLUTIONS

2. Resolution Recommending South Fork Relay Replacement Project
3. Resolution Accepting Recommendations of Technical Memorandum Regarding Downstream Interceptor Plan for North Interceptor
4. Resolution Recommending Purchase of Vac Truck and Camera

REPORTS:

5. Project Updates
6. Finance Report
7. Utility Dashboards
 - a. Electric
 - b. Water
 - c. Waste Water Treatment Plant
 - d. Powerful Choices
8. Monthly Utility Report

ANNOUNCEMENTS:

ADJOURNMENT:

*Council members may be in attendance for informational purposes only.
No official Council action will be taken.*

**REGULAR MEETING
RIVER FALLS UTILITY ADVISORY BOARD
June 20, 2016 6:30 p.m.
Council Chambers, City Hall**

The Regular Meeting of the River Falls Utility Advisory Board was called to order by President Hanson at 6:30 p.m. Present: Kevin Swanson, Patrick Richter, Diane Odeen, Tim Thum, Grant Hanson, Duane Pederson, and Adam Myszewski. Staff present: Kevin Westhuis, Utility Director; Kristi Hartmon, Administrative Assistant; Julie Bergstrom, Finance Director; Ron Groth, Water/Wastewater Superintendent. Other: Chris Gagne, City Council

M/S Odeen/Pederson to approve minutes of the May 16, 2016 Regular Meeting and the June 6, 2016 Special Meeting. Motion Carried.

PUBLIC COMMENTS:

CONSENT AGENDA:

1. Acknowledgment of the following minutes:
West Central Wisconsin Biosolids Facility Commission Meeting – 05-17-16

M/S Odeen/Swanson to approve Consent Agenda. Motion Carried.

NEW BUSINESS:

2. 2015 Compliance Maintenance Annual Report (CMAR): Ron Groth, Water/Wastewater Superintendent gave a brief explanation of what the Compliance Maintenance Annual Report (CMAR) is. It is a DNR required report card for the collect system and the Wastewater Treatment Plant.

M/S Pederson/Odeen to approve Resolution No. 2016-10 regarding review of Wastewater Treatment Plant 2015 Compliance Maintenance Annual Report.

3. Proposed CIP: Utility Director Westhuis stated that this is a review of the projects proposed for the 2017-2021 Capital Improvement Plan. Westhuis stated before any changes are made to the department requests, he would like to receive input and discussion from the Utility Advisory Board.

There was discussion on the AMI meter project. Thum asked for clarification on the ranking system of the priority list (4, 2, n/a) on the CIP document. Westhuis confirmed that a 4 is a higher ranking/priority than a 2. Pederson asked what the normal change out of meters is and has it been considered to use the new style meter (AMI) that is on the CIP when meters are due for change outs. Westhuis said it is a 12 year rotation on meters and it has been considered to use the AMI meters for future meter change outs.

Thum stated that he understands the pilot project that was done for the large top 30 Industrial customers, but \$750,000 a year for a couple of years that is a lot of money for purchase of AMI meters for residential accounts. Thum asked is the AMI meters need to be replaced on a 12 year rotation. Westhuis was not sure and stated that is a good question and technology is changing every day. Thum stated new technology needs to be of value to warrant the expense and it sounds like the current meter reading process are not that expensive. Thum would like to see more information on why the AMI would be valuable to (especially for residential)

customers. Odeen stated that as a point of reference, this portion of the CIP is part of a bigger CIP plan that the City Council has already had one workshop on and will have another workshop on July 26th and UAB members are welcome to come and talk about any of the projects at that time. Westhuis thanked the board for their comments and told them to reach out to him if they would like to discuss further. Hanson asked what the budget item for maintenance was on the tree trimming item on the CIP. Westhuis stated that the tree trimming is contracted out and not done by internal staff right now.

4. Election of UAB Officers (President and Secretary): Pederson moved to elect Grant Hanson as President. Myszewski seconded the motion. Motion passed. Odeen made a motion to elect Duane Pederson as Secretary. Thum seconded the motion. Motion passed.

REPORTS:

4. Finance Report: Financial reports were included in the packet for review. President Hanson noted that the water utility had a cumulative negative income at the end of May. Westhuis stated that is one of the reasons for the water rate increase.
5. Utility Dashboards for, Electric, Water, Waste water and Powerful Choices were included in the UAB Packets. Odeen asked if there were metrics to see how many people look at them as staff spends time on them and wants to make sure people find them useful. Administrative Assistant Hartmon stated she could look at the analytics of the utility website.
6. Monthly Utility Report was included in the UAB packets for review. Ron Groth reported that the basement floor was poured on WWTP building and the project is scheduled to be substantially complete and operable by October 2016. Sycamore Water Tower project has started and is going as scheduled and will be complete by the first of August. Hanson asked if the WWTP project will handle the population trends a number of years down the road. Groth stated when you redesign a WWTP you look at the next 20 years and estimate what the population would be. Westhuis stated that we have a 1.8M gallon per day facility and we are at about 1.2M gallons per day. We have room for expansion.

Thum asked if there was anything new from Pioneer Metal. Westhuis stated that he thinks it is 95% dead and Pioneer let the city know they are exploring other options at this time. Pederson asked about the solar panel issue. Kevin stated that he met with three neighbors that live across the street from the panels and also about 21 neighbors from Sterling Ponds neighborhood who had a few different issues as well. It was a good meeting and Westhuis is following up on a few items for them. Westhuis agreed on getting one or two more estimates on removing the row of panels and is also working on landscaping plans. Westhuis continues to work on a resolution. Hanson asked about the weatherization program and working with eligible homes. Noreen is working with eligible customers on that program and taking applications.

ADJOURNMENT:

M/S Thum/Myszewski moved to adjourn at 7:16 p.m. Unanimous.

Reported by: Kristi Hartmon, Administrative Assistant



MINUTES

June 9, 2016

Training room – City Hall

12:00 p.m. – 1:00 p.m.

Committee members and guests present: Mike Noreen (RFMU), Nathan Croes (City of RF), Erin Tomlinson (Tomlinson Financial Services), Patricia LeRue (Resident), Katie Feuerhelm (UW Extension), Don Richards (SVC Habitat and RFBC), Terry Kusilek (City of RF), Mark Klapatch (UWRF), Steve Preisler (CAB), Tyler Glade (City of RF), Judy F. Berg (RF Chamber), Alisha Miller (Miller Escape), Pete, Morsch (St Croix Energy Solutions), Dave Engstrom (SVC Habitat), Weston Arndt (WPPI) and Rhonda Davison (RFMU)

Mike Noreen welcomed everyone to POWERful Choices! POWERful Choices is an advisory group on sustainability in River Falls where all are welcome and no membership is required. Mike asked for the approval of minutes from the April 14th meeting, motion by Erin Tomlinson seconded by Weston Arndt, minutes approved by all. Today's food was catered by Nesbitt's Nursery and Orchard.

1. Customer Appreciation Event

Thursday July 21, 2016 from 11 AM to 1 PM at City Hall. Our theme will be Public Power – Owned by the Public. In past years the attendance has been about 600 people. Mike asked if this is the time and place to invite the community to get involved in POWERful Choices. Should we have a booth? Judy Berg suggested we share with customers that we are a tree city, monarch city, bike friendly, bird city, and other awards we have received. Erin Tomlinson asked for educators to share ideas and stories about pollinators, Nate Croes stated that for Arbor Day milkweed seeds were given to students for planting at various parkland around town to promote a bee and bird friendly environment, this coincides with a pledge the City has for Bird City and Monarch City. Don Richards suggested Adopt a Pond program. Mike explained that all city departments participate and this would be covered by Crystal in the Engineering department. Mike explained that there are no private business booths at this event. POWERful Choices should have a booth; Mike is looking for people to get involved by signing up. Maybe have a flyer about the many projects that POWERful Choices had implemented in the City and information about how often we meet and that it is a volunteer opportunity with little commitment, yet having a chance to have a voice in new projects for the City. Our goal is to be the "Cool Kids". Other ways to get the word out about POWERful Choices that was suggested were a website or a flyer in the utility bills.

2. Blue Bikes Program

Blue Bikes program was rolled out April 22, 2016. How is it going? It appears to be a success with a few issues; Mike will be going to pick up one of our bikes that ended up in Hudson. We are keeping Isaac with Crank Worxs busy repairing bikes. It was asked if Isaac is donating his time, and Mike stated that we have a contract with him. Some of the bikes have disappeared and we are in need of restocking bikes. Mike brought up having a booth at the Customer Appreciation event to accept bike donations, show the process of fixing the bikes, painting, and registering them with the Police Department. There were concerns about painting the bikes with spray paint around

the food. It was suggested to use a liquid paint and brushes and let the kids attending assist with painting the bikes. This would give the community a chance to learn more about the program and see the process.

The Blue Bikes Facebook is receiving many good responses and posts.

Terry Kusilek stated that during Spring Clean Up that bikes were collected for the program and they plan to collect bikes again at the Fall Clean Up. We will maybe look into some advertising for bike donations and find a drop off spot for people interested in making a donation.

Judy Berg also brought up that the deadline for the City to apply for the Bicycle Friendly Community with the League of American Bicyclists is August 9, 2016.

3. Green Block Program

Mike announced that RFMU reached their goal of becoming #1 in the State with customer participation in our renewable block program beating Madison. It took a lot of hard work to achieve this goal, and a big thank you to Don Richards when he was Mayor he encouraged/challenged the community to participate, also a huge thank you to the Customer Service Staff for asking new customers to sign up. Mike announced that River Falls is 5th in the nation. Our next goal is to have 10% customer participation we are currently at about 8.5% (520 customers) and need about 112 customers to sign up for the program.

4. Hydro website update

Wes reiterated a thank you to Don Richards for his Mayoral challenge to the community this increased the communities' awareness and participation in the Green Block Program.

Wes showed the attendees how to access the webpage through the RFMU website. He explained that the data for the hydros is not real time. This information is updated monthly. Wes thanked Brian Hatch for his information and input on the hydro page which includes some history and other important facts about the hydros. A picture of Brian in front of the Powell Falls Dam can be seen on the website. Wes showed the Community Solar graph which is real time at 10 minute intervals. You can see the dark hours and cloudy times on the graph. You can see generation comparisons of the hydro and community solar. Included is information on all local renewables including block sales, individual households and commercial businesses that have installed solar panels on their buildings. At a glance charts and graphs reflect the monthly comparisons. Questions from the group – What has form of renewable energy has the biggest impact? Block Sales. What percent of the community solar has been currently sold? 15 to 20 percent have been sold to date. It was explained that even though all of the solar panels in the community solar program have not been sold the total production is reflected on the website as it is still part of our renewable generation. Are new businesses buying in to the project? Yes TW Vending will buy 90 panels. How do we compare to New Richmond? Currently New Richmond is ahead of River Falls. Wes encouraged everyone to visit the website and check out the information.

5. Clever sustainability videos

Mike shared a commercial that will be shown at the River Falls movie theatre about our community solar program. This included some of our local residents that agreed to be featured in the video. He also shared some other community videos he had found online. A brief discussion followed about other things we can do besides the typical flyers and mailings to get the word out to the public. Erin Tomlinson asked if we have charging stations for electric vehicles? Kwik Trip on North Main Street has one. Mike said that other communities like Algoma and Sturgeon Bar are looking at a pilot program for electric vehicle charging stations.

6. Items of interest

- Steve Pristler with CAB invited everyone to Artful Friday June 10th from 4 to 7 at 5 locations in Downtown River Falls.
- Pete Morsch briefly talked about the Low Income Weatherization program and thanked RFMU stating it is a pleasure to work with such a great company that cares about their rate payers.
- Alisha Miller that she is receiving many positive results from her survey

Meeting minutes were taken by Rhonda Davison



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MEMORANDUM

TO: The City of River Falls Utility Advisory Board

FROM: Kevin Westhuis, Utility Director

DATE: July 18, 2016

TITLE: **Resolution Recommending Authorization for Professional Services and Equipment Purchases for the South Fork Substation Control Replacements**

RECOMMENDED ACTION

Adopt the resolution recommending the purchase of engineering services, relay equipment, and battery systems for our South Fork Substation.

BACKGROUND

The South Fork Relay replacement project is a 2016 CIP project intended to replace existing control equipment at the end of its projected life, subject to failure, required to support the new electric SCADA system or required to improve arc flash performance/protection. The timing of the project in 2016 recognizes the increased risk of extended power outages given the 2017 Power Plant Substation construction outages, thus this project is timed to improve the reliability of South Fork in advance of the reconstruction of the Power Plant.

DISCUSSION

The scope of work includes removing the two (2) existing relay panels and the existing SCADA RTU, replacing them with three (3) relay panels with integrated SCADA equipment, replacing the substation control battery bank and battery charger, transferring all existing control cables and re-terminating them in the new relay panels creation of a temporary interface to the old SCADA master system.

At the last maintenance inspection, the station battery was indicated to be at the end of its useful life and due for replacement. Failure of the station battery renders all control inoperable. In the last three years two (2) breaker control switches and one (1) of the primary transformer differential relays failed requiring unscheduled repairs/replacements.

The SCADA system is obsolete and no longer supported by the vendor – it has continued to suffer hardware failures and questionable performance.

With the new relay panels a new high-speed bus relay will be added thus reducing the arc hazard to workers in the substation yard which improves safety during switching operations and reduces equipment damage in the event of an electrical fault.

The relays are 1980's and 1990's vintage electromechanical and/or microprocessor-based. The existing relays do not provide the level of protection offered by the new relay systems nor are they supported from a software/interface standpoint like the current systems which makes responding to electrical faults more difficult. 1990's microprocessor based systems (pc's, cell-phones, etc.) are rarely still seen operable. Relays are the same as pc's and / or cell phones from a life-expectancy standpoint – software and hardware are constantly changing/improving with the older system platforms losing support.

River Falls Municipal Utilities has continued to see relay failures, most recently a 2003 vintage relay at the North Substation. Keeping pace with the replacements of microprocessor-based relays is important to effective utility operations.

FINANCIAL CONSIDERATIONS

Engineering Services for this the project is estimated not-to-exceed \$55,000 which includes time to create/modify 70+ drawings (3 hours/drawing at \$90/hr.) in a CADD-format, identify items not shown on the prints and design corrections to those items (contingency), design the new relaying panels (40 hours/panel at avg. \$125/hour), perform electrical fault calculations, design relay settings, program relays (total 15 hours at \$150/hr. includes specialized software), perform on-site construction management of the removal/installation/testing/commissioning/startup (up to 60 hours at \$150/hr.), train operators in the use of the new relays (included in startup), provide record drawings (15 hours at \$80/hr.), update the arc-hazard assessment with the new hazard levels given the new equipment/relay settings (10 hours at \$150/hr.), printing (70 drawings for two construction sets plus two record sets at \$6/print).

Drawings/checking	\$22,800
Design Panels	\$15,000
Calculations	\$2,250
Construction Management	\$9,000
Arc Flash	\$1,500
Printing	\$1,680
Contingencies	<u>\$2,770</u>
Total	\$55,000 (for Engineering)
Transformer Panel	\$50,000
Bus Panel	\$45,000
Feeder Panel	\$45,000
Battery System	\$20,000
Removal / Installation / Testing	\$50,000
Contingencies	<u>\$10,000</u>
GRAND TOTAL	\$275,000.00 for this project

CONCLUSION

It is staff's recommendation that the Utility Advisory Board approve the resolution with a recommendation to the River Falls City Council approving the authorization for professional services and equipment purchases for the South Fork Substation control replacements as part of our Capital Improvements for the electric distribution system.



RESOLUTION NO. 2016-11

**RESOLUTION APPROVING THE AUTHORIZATION FOR
PROFESIONAL SERVICES AND EQUIPMENT
PURCHASES FOR THE SOUTH FORK SUBSTATION
CONTROL REPLACEMENTS**

WHEREAS, River Falls Municipal Utilities is recommending authorization for professional services and equipment purchases for the South Fork substation control replacements; and

WHEREAS, this project is a 2016 CIP project intended to replace existing control equipment at the end of its projected life, subject to failure, required to support the new electric SCADA system and/or required to improve arc flash performance/protection; and

WHEREAS, the scope of work includes removing the two (2) existing relay panels and the existing SCADA RTU, replacing them with three (3) relay panels with integrated SCADA equipment, replacing the substation control battery bank and battery charger, transferring all existing control cables and re-terminating them in the new relay panels creation of a temporary interface to the old SCADA master system; and

WHEREAS, the 2015-2019 Capital Improvement Plan includes \$275,000 for this equipment replacement; and

WHEREAS, the total cost for this project is estimated at 275,000; and

NOW, THEREFORE, BE IT RESOLVED that the City of River Falls Utility Advisory Board recommends authorization for professional services and equipment purchases for the South Fork substation control replacements in the amount of \$275,000 to the Common Council.

Dated this 18th day of July, 2016.

Grant Hanson, President

ATTEST:

Lu Ann Hecht, City Clerk



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MEMORANDUM

TO: Utility Advisory Board

FROM: Reid Wronski, P.E., City Engineer

DATE: July 18, 2016

TITLE: **Resolution Accepting Recommendations of Technical Memorandum Regarding Downstream Interceptor Plan for North Interceptor**

RECOMMENDED ACTION

Adopt resolution accepting recommendations of the Technical Memorandum regarding downstream interceptor plan for North Interceptor.

BACKGROUND

On November 16, 2015, staff presented a draft Request for Proposals to the Utility Advisory Board and laid out a plan for proceeding forward with necessary planning of a North Interceptor Sewer project.

On March 21, 2016, the Utility Advisory Board adopted a resolution recommending that the City Council enter into an agreement with TKDA for professional services necessary to complete initial work for the North Interceptor Sewer Project.

On March 22, 2016, the Common Council of the City of River Falls authorized the City Administrator to enter into an agreement with TKDA for professional services necessary to complete initial work for the North Interceptor Sewer Project as follows:

N. Interceptor Routing Study

The purpose of this study is to determine a route for a new 21" sewer interceptor line that would replace the existing north side lift station and forcemain with a gravity flow sewer. The new interceptor sewer would discharge into an existing or rebuilt gravity sewer manhole located in the current St. Croix Street Outfall Pond or another manhole downstream of that one.

Milestone	Date
Present Routes to the City ¹	August 15
Provide Easement Map to the City ²	September 27
Draft Report to City	October 14
Final Report to City	October 31

¹ Utility Advisor Board Meeting

² City Council

N. Interceptor – Downstream Plan

July 18, 2016

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St. Croix Street Outfall Study

The purpose of this study is to create a concept plan for expansion and rehabilitation of the St. Croix Street Outfall Pond in order for the pond to provide rate control and sediment treatment consistent with current standards and be coordinated with the plans for the North Interceptor. Note: Staff requested TKDA include additional meetings with WisDNR in their scope of work causing the estimate to be \$1,800 more than their original proposed amount.

Milestone	Date
Provide Concept Plans to City ¹	August 15
Provide Preliminary Plan & Cost Estimate to City ²	September 27
Draft Report to City	October 14
Final Report to City	October 31

¹ Utility Advisory Board Meeting

² City Council

Downstream Interceptor Planning And Preliminary Design

The purpose of this work will be to determine the routing and alignment associated with the eventual upsizing of the North Interceptor south of the St. Croix Street Outfall as identified in the 2009 Sanitary Sewer Collection System Study. This will allow better coordination with the upcoming substation project and the Heritage Park to Division Street trail project.

Milestone	Date
Provide Recommended Route to City ¹	July 18
Provide Preliminary Design to City	September 15
Draft Report to City	September 30
Final Report to City	October 17

¹ Utility Advisory Board Meeting

DISCUSSION

Attached is a Technical Memorandum - North Interceptor MH 1272 to MH 1103, from TKDA. This technical memorandum contains specific recommendations regarding future planning for North Interceptor between MH 1272 and MH 1103. Representatives from TKDA will be at the UAB meeting to present their recommendations.

CONCLUSION

Staff recommends approval of the attached resolution accepting recommendations of the Technical Memorandum regarding downstream interceptor plan for North Interceptor.



444 Cedar Street, Suite 1500
 Saint Paul, MN 55101
 651.292.4400
 tkda.com

Memorandum

To:	Reid Wronski	Reference:	North Interceptor MH 1272 to
	City of River Falls		MH 1103 Planning
		Project No.:	16105.000
From:	Ron Quanbeck, PE	Routing:	
Date:	7/7/16		

This memorandum discusses the North Interceptor downstream from Manhole (MH) 1272 where the proposed gravity sanitary sewer interceptor eliminating the Kinnickinnic Lift Station will connect to the existing interceptor line. This segment extends from MH 1272 to MH 1103 which is immediately after the interceptor crosses the Kinnickinnic River south of the power plant. The purpose of this portion of the project is to determine the ultimate alignment and configuration for this segment of the interceptor so the City is prepared if a need or opportunity arises to replace sections of the Interceptor. The existing North Interceptor from the Kinnickinnic Lift Station to MH 1103 is shown on Figures 1-3.

A subsequent phase of this project will review the condition of the North Interceptor and make recommendations for rehabilitation if warranted. One consideration will be the timing of when capacity needs require that the pipe size be increased and whether it is advisable to rehabilitate or replace the pipe when the system condition necessitates action.

Current System

The interceptor south of MH 1272 crosses the Kinnickinnic River between MH 1273 and MH 1262 before continuing along the west side of the River across Division Street, Maple Street and Winter Street and passing through the Power Plant site. It again crosses the Kinnickinnic River between MH 1250 and MH 1103 connecting to other interceptors and forming the Combined Interceptor. The Interceptor from MH 1272 to MH 1103 is 5,757 feet long. Records indicate that the upper 2,101 feet is 15 inch diameter vitrified clay pipe which changes to 3,656 feet of 18 inch vitrified clay pipe at MH 1131. Records for construction of the pipe are limited so details on the type of construction, presence of bedrock, and configuration of river crossings are not available.

The current system has a number of issues to consider in deciding on an ultimate alignment and configuration.

- Pipe size is dependent on future development.
- The two river crossings present challenges.
- The City has a desire to relocate sanitary sewers to make redevelopment more feasible in an area along River Street between Pine Street and Maple Street.
- The pipe between MH 1255 and MH 1131 is flatter than current standards.
- The pipe between MH 1069 and MH 1068 is flatter than current standards.

Pipe Size/Capacity

The Sanitary Sewer Collection System Study dated March 2009 prepared by Ayres Associates was used to estimate the needed North Interceptor future sanitary sewer flow capacity. Future development scenarios presented in the Ayres Report include the Urban Area Boundary (UAB) and 1 mile outside the UAB. A 2.5 peaking factor consistent with Wisconsin Code was applied. The Ayres Report concludes that the North Interceptor be a 21 inch diameter pipe to serve the UAB and a 24 inch diameter pipe to serve the 1 mile out area.

The UAB is projected to be a 20-30 year development scenario. The 1 Mile Out projection was a very conservative look further into a future that may not happen. During review of the recommended size for the North Interceptor, it became apparent that the 21 inch diameter pipe will provide a full flow capacity at minimum grade in excess of that needed for the UAB, but does not have capacity to serve the full 1 Mile Out projection. This provides a buffer if development of the UAB occurs more intensely than anticipated or if development patterns result in a somewhat larger service area for the North Interceptor than projected by the UAB.

The flow downstream from the Kinnickinnic Lift Station varies as local sanitary sewers connect to the Interceptor. The data provided with the Ayres Report for the UAB development scenario indicates that, the peak flow near MH 191 will be approximately 40% higher than the peak flow at the Kinnickinnic Lift Station. This is due to existing sanitary sewers entering the Interceptor near MH 191 rather than UAB development. Up to MH 191 the full flow capacity of the 21 inch pipe at minimum grade exceeds the UAB projected peak flow by 75-100%. After MH 191 the capacity of the 21 inch pipe exceeds the UAB projected peak flow by about 40%. For this reason, it is recommended to change to a 24 inch diameter pipe at MH 191 which results in a capacity that exceeds the projected UAB flows by about 80%. This will more closely balance the pipe capacity along the North Interceptor and provide capacity if development of the UAB occurs more intensely than anticipated or if development patterns result in a somewhat larger service area for the North Interceptor.

Selecting a size for the North Interceptor is a balancing act between overbuilding and providing sufficient capacity for the useful life of the pipe. It is recommended that a 21 inch diameter sanitary sewer be planned for the North Interceptor from the Kinnickinnic Lift Station to MH 191 and a 24 inch diameter sanitary sewer be planned from MH 191 to MH 1290. The segment from MH 1290 to MH 1103 and other segments are discussed below.

River Crossing MH 1273 to MH 1262

The Kinnickinnic River crossing between MH 1273 and MH 1262 is believed to be a 14 inch diameter cast iron pipe at a slope of 0.85%. The full flow capacity of this pipe is approximately 2,230 gpm and the capacity without surcharging is approximately 1,600 gpm. This exceeds the projected flow at this location for the UAB. The crossing will need to be replaced or supplemented when the North Interceptor exceeds this capacity.

The installation details for the Kinnickinnic River crossings are not available, but a detail for the crossing near the Kinnickinnic Lift Station at Main Street indicates that that crossing was placed in a trench cut in the bedrock that was then filled with concrete. If this method was used on the other crossings in situ methods will not work and the crossing will need to be installed by open cut. This will be an expensive segment and will need to be carefully designed.



River Crossing MH 1290 to MH 1103

The Kinnickinnic River crossing between MH 1250 and MH 1103 is believed to be an 18 inch diameter pipe at a slope of 0.5%. The full flow capacity of this pipe is approximately 3,340 gpm and capacity without surcharging is approximately 3,140 gpm which exceeds the projected flow at this location for the UAB. Review of the location of this River crossing in the system leads to the conclusion that, if carefully designed for anticipated pressures, the crossing could be allowed to surcharge thereby increasing the capacity of the crossing significantly. Therefore, this crossing would not need to be replaced for expected future North Interceptor flows. It will need rehabilitation of the pipe and manhole structures to address pressure created by the surcharge.

The segment down the bluff from MH 1290 to MH 13 has a very steep grade, except the upper 20 feet, so its capacity will not be exceeded. It should be lined when the pipe condition warrants, but it will not need to be replaced. The upper approximately 20 feet will need to be replaced with a larger pipe and the transition to the steep grade modified to avoid inlet capacity problems that would impact the pipe capacity.

River Street Area Rerouting

The City currently controls a significant part of the property along River Street between Cedar Street and Pine Street and is interested in redevelopment of the area. Several sanitary sewer lines, including the North Interceptor, bisect the area making redevelopment difficult. Rerouting a segment of the North Interceptor and other local sewers would create a larger block of property providing greater flexibility for redevelopment. It is anticipated that the building at 300 River Street will be removed for redevelopment of the site.

It is recommended to relocate the segment of the North Interceptor between MH 1255 and MH 191. Relocating the Interceptor north of MH 1255 will not provide additional benefit given floodplain and shoreland limitations. In addition, local sewer lines connecting to the Interceptor at MH 191 and MH 1256 can be rerouted providing additional benefit. Figure 4 shows the sanitary sewer realignment.

Two options for the North Interceptor realignment are presented. One connects directly to existing MH 191. The other adds a manhole and moves MH 191 downstream 50 to 100 feet and provides a larger potential redevelopment area. Both options require removal of the 300 River Street building. The route will not need to be chosen until redevelopment is imminent and a better idea of the benefits of each is known.

Consideration was given to constructing the realignment in conjunction with the Lake George Trail project expected to be constructed in 2017. While there may be some impact to the Lake George Trail when the North Interceptor is replaced, it is not expected to be major so there is minimal benefit to doing the work and incurring the cost now.

Manhole 1255 to Manhole 1131

The pipe from MH 1255 to MH 1131 is currently at a flatter slope than current standards allow. This pipe will be replaced and condition remedied by the River Street area rerouting for redevelopment.



Manhole 1069 to Manhole 1068

The pipe segment from MH 1069 to MH 1068 has a negative slope. While the hydraulic grade caused by flow from upstream will force the flow in the correct direction, flow velocity in the pipe during low flow periods may result in deposition in the bottom of the pipe requiring frequent cleaning to maintain capacity and avoid more corrosive conditions in the pipe than necessary.

The sanitary sewer from MH 1069 to MH 1066 will need to be replaced at a different grade to get enough elevation difference to accomplish the minimum slope. Existing in situ technology that can significantly change the pipe grade is relatively expensive, so this segment is recommended to be open cut. The system is working as is, so this work should be performed when capacity required exceeds the pipe capacity for the sanitary sewer at the average slope through this area of about 0.12%.

Construction Techniques

There are different ways that a pipe can be replaced if it follows the same alignment as the existing line. Traditionally open cut has been used, but technologies have been developed where the pipe can be replaced with less surface disruption in the right situation. In situ techniques include:

- lining if the situation allows reduction of pipe capacity,
- pipe bursting which can be used to increase pipes 1 or 2 sizes and
- pipe reaming which can increase the pipe size greater and in more situations.

In situ replacement greatly reduces surface disturbance minimizing tree loss, disruption of roadways and potential erosion, however it is not appropriate for all situations. In situ installation does not completely eliminate excavation which is generally required at each manhole for access to the pipe.

Information on the original construction of the North Interceptor is limited, so specific techniques will need to be investigated during the design process. Whether the pipe was constructed through bedrock is one of the most significant unknowns that will affect the type of construction chosen so robust geotechnical exploration will be required.

Other than locations identified earlier, a significant advantage for changing the North Interceptor alignment has not been identified. Based on the information available at this time, it appears that in situ techniques can be used for replacement of much of the North Interceptor. Segments that deviate from the existing alignment such as the River Street rerouting and vertically MH 1069 to MH 1066 will need to be open cut.

Recommendations

A 21 inch diameter sanitary sewer should be planned for the North Interceptor from the Kinnickinnic Lift Station to MH 191.

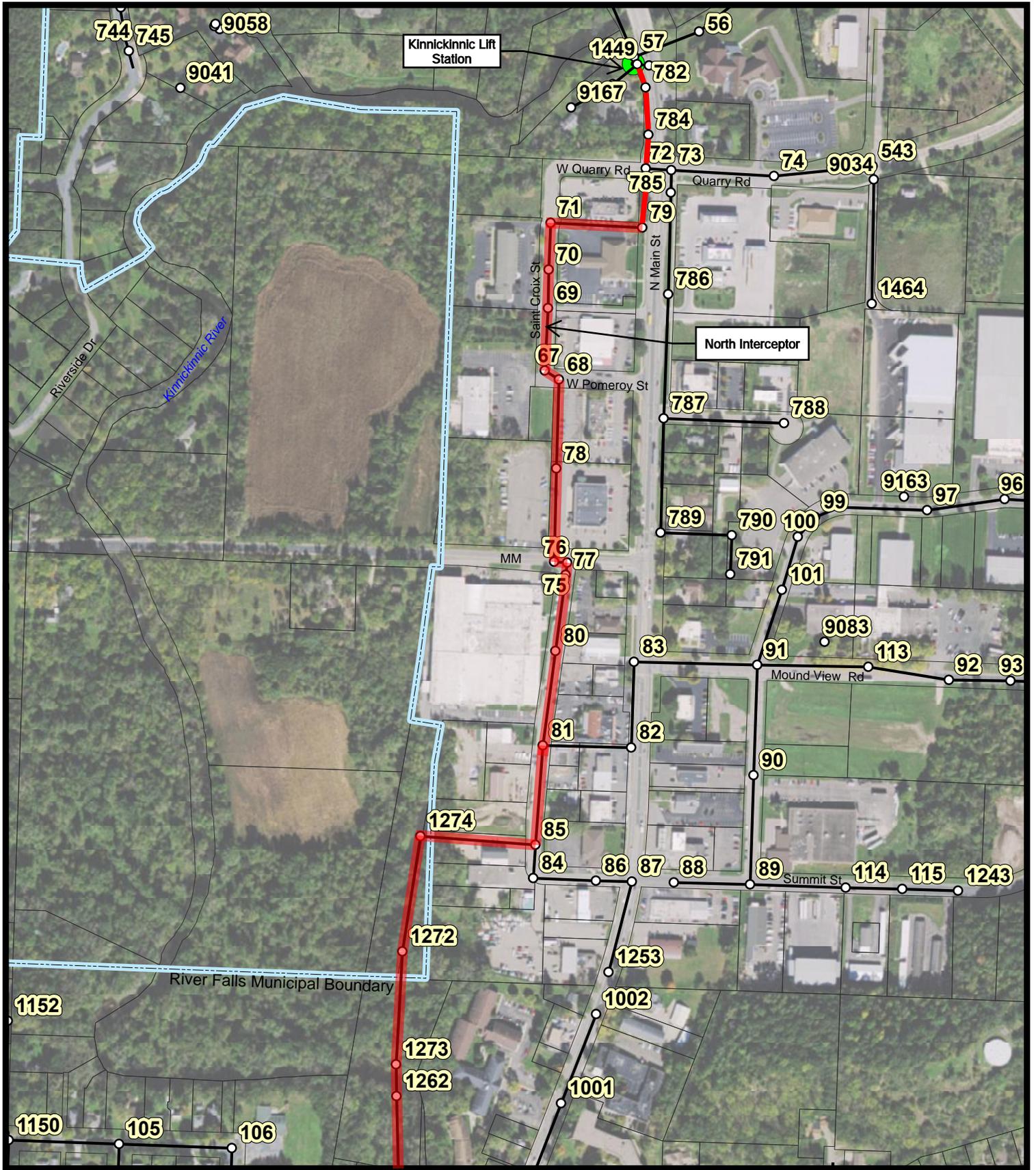
1. Replace MH 1272 to MH 1273 by open cut if the St. Croix Street Outfall is expanded otherwise replace in situ when capacity requirements warrant it.
2. Replace the Kinnickinnic River crossing between MH 1273 and MH 1262 when capacity requirements warrant it.
3. Replace MH 1262 to MH 1255 in situ when capacity requirements warrant it.
4. Reroute MH 1255 to MH 191 in conjunction with site redevelopment.



A 24 inch diameter sanitary sewer should be planned from MH 191 to MH 1290.

1. Replace MH 191 to MH 1069 in situ when capacity requirements warrant it.
2. Replace MH 1069 to MH 1066 by open cut when capacity requirements warrant it to adjust the grade to meet minimum standards.
3. Replace MH 1066 to MH 1290 in situ when capacity requirements warrant it.
4. When capacity requirements warrant it, open cut replace the initial 20 foot segment downstream from MH 1290 to increase capacity to the grade break and line the pipe and manholes from that point to MH 1103 in a manner designed to surcharge.





0 150 300 600 Feet

River Falls North Interceptor

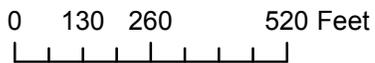
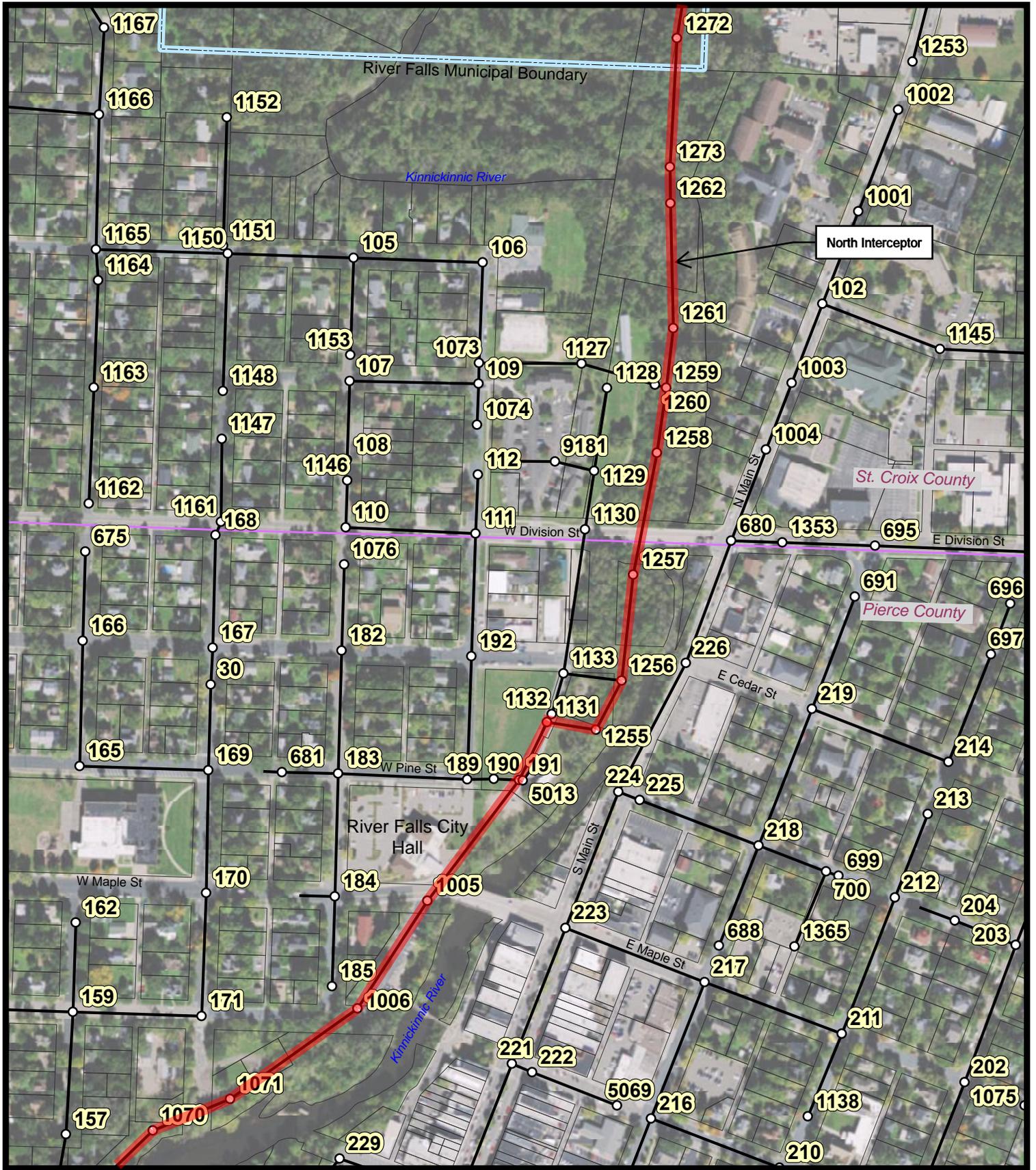
Figure 1



Date: 7/5/2016



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River Falls North Interceptor

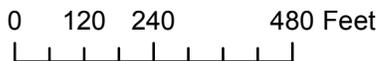
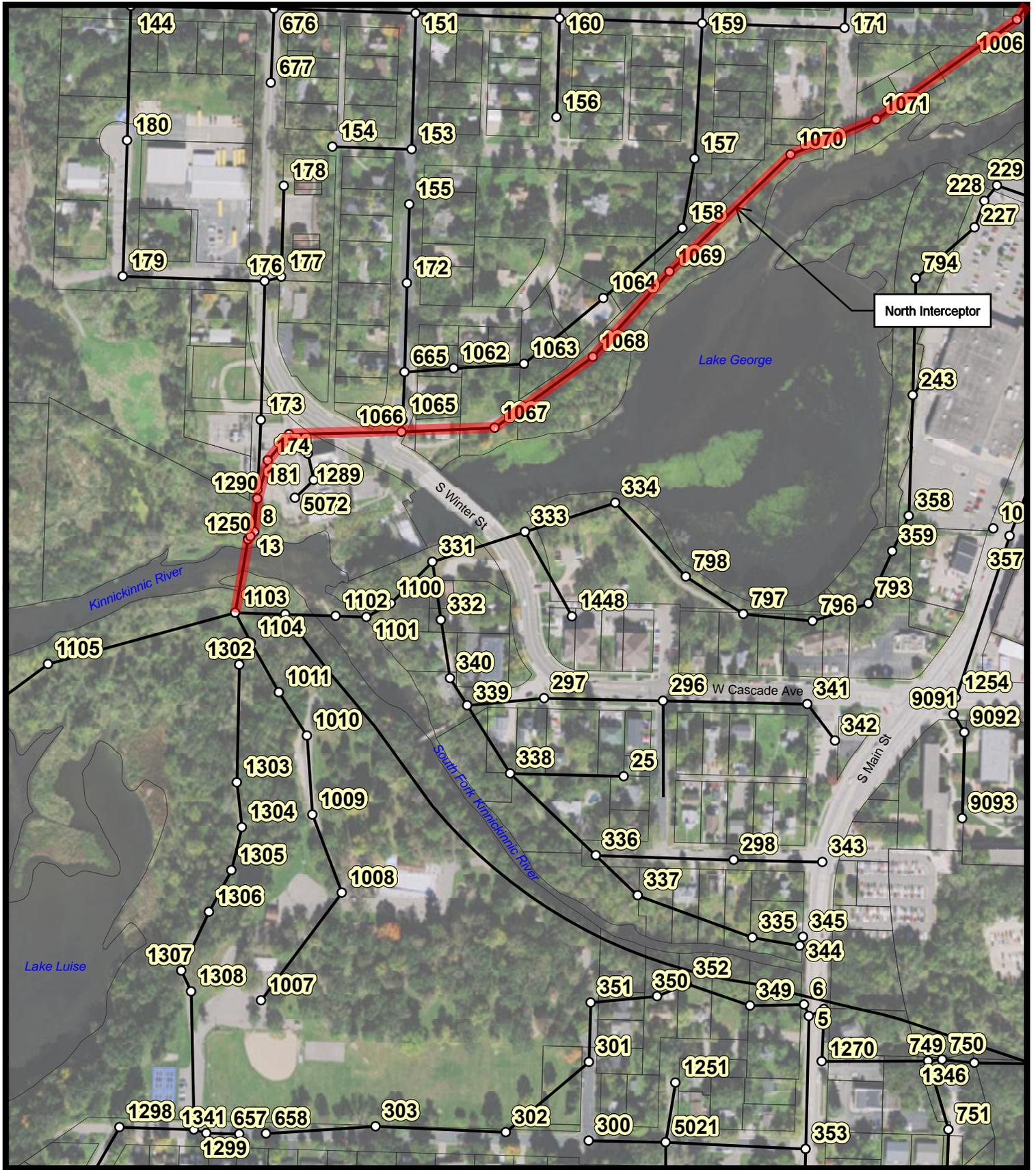
Figure 2



Date: 7/5/2016



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River Falls North Interceptor

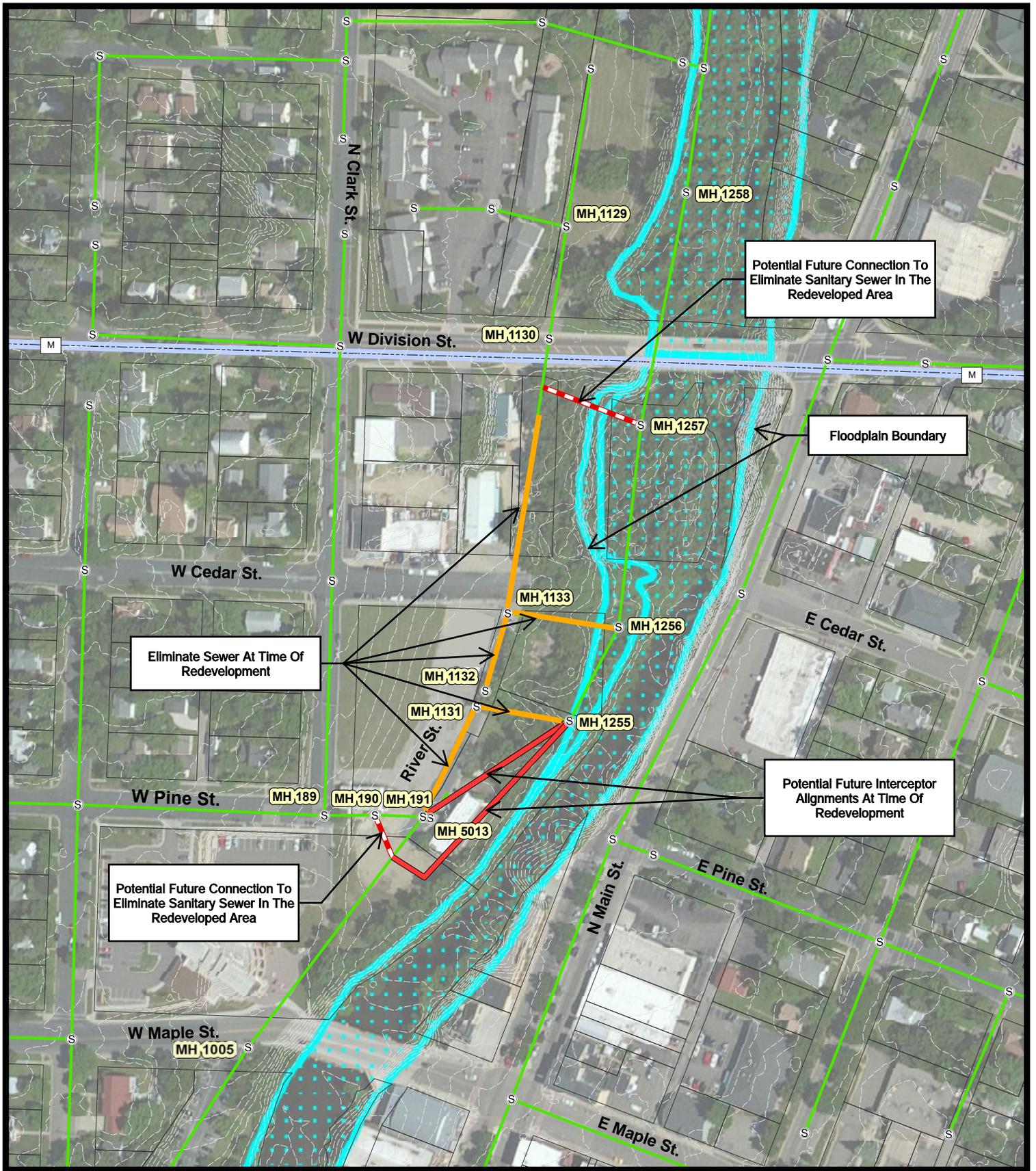
Figure 3



Date: 7/5/2016



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RESOLUTION NO. 2016-12

RESOLUTION ACCEPTING RECOMMENDATIONS OF TECHNICAL MEMORANDUM REGARDING DOWNSTREAM INTERCEPTOR PLAN FOR NORTH INTERCEPTOR.

WHEREAS, On November 16, 2015, staff presented a draft Request for Proposals to the Utility Advisory Board and laid out a plan for proceeding forward with necessary planning of a North Interceptor Sewer project; and

WHEREAS, on March 21, 2016, the Utility Advisory Board adopted a resolution recommending that the City Council enter into an agreement with TKDA for professional services necessary to complete initial work for the North Interceptor Sewer Project; and

WHEREAS, on March 22, 2016, the Common Council of the City of River Falls authorized the City Administrator to enter into an agreement with TKDA for professional services necessary to complete initial work for the North Interceptor Sewer Project; and

WHEREAS, TKDA has begun its work and prepared a Technical Memorandum - North Interceptor MH 1272 to MH 1103; and

WHEREAS, this technical memorandum contains specific recommendations regarding future planning for North Interceptor between MH 1272 and MH 1103; and

WHEREAS, staff recommends accepting those recommendations.

NOW, THEREFORE, BE IT RESOLVED that the Utility Advisory Board of the City of River Falls hereby accepts recommendations of the Technical Memorandum regarding downstream interceptor plan for North Interceptor dated July 7, 2016.

Dated this 18th day of July, 2016.

Grant Hanson, Board President

ATTEST:

Lu Ann Hecht, City Clerk



#

MEMORANDUM

TO: The City of River Falls Utility Advisory Board

FROM: Ron Groth, Wastewater/Water Superintendent

DATE: July 18, 2016

TITLE: Resolution Recommending Purchase of Vacuum Truck and Camera

RECOMMENDED ACTION

Adopt the resolution recommending the purchase of the 2007 Vactor vacuum truck and televising camera.

BACKGROUND

A vacuum truck is a tank truck that is outfitted with a heavy duty vacuum and is designed to load solids, liquids, and sludge through suction lines. The City currently contracts out all of the City's vacuum truck needs to LNT Utility out of Chippewa Falls, WI. In the past, the City has contracted with Green Bay Pipe & TV out of Green Bay, Wisconsin and Visu-Sewer out of Blaine, Minnesota. These companies have been contracted for sewer cleaning, wet well cleaning, and TV inspection.

Currently, the City owns a trailer vacuum. The Vactron PMD-500DT was purchased new by the City in 2002 and is equipped with a 500 gallon vacuum and a 225 gallon fresh water tank. Due to the size of the hose and limited tank capacity, the trailer vacuum has become less effective in completing certain projects including the annual fall leaf cleanup effort, thawing for storm sewer, and gate valve cleaning.

In April 2015, an analysis was conducted and recommended purchasing a City owned vacuum truck and discontinuing contracting out for sewer cleaning and TV inspection. This would provide for an overall cost savings for the City. However, the analysis also stated that before purchasing the vacuum truck and TV inspection equipment the Water and Wastewater departments had to address the increase in workload. In 2015, two Water Works Certified Operators were hired which addresses the previous concern over workloads. The Water department will have one full time operator and one seasonal operating the vacuum truck when cleaning the City's sewer lines. It will only take one full time employee to clean the City's wet wells with the vacuum truck.

DISCUSSION

Current Situation

Overall, the number of projects that can be completed annually with a City-owned vacuum truck will increase. It is expected that the vacuum truck will remain in the City's fleet for a minimum of 10 years. The truck, which will primarily be used by the Water department, will be used for a minimum of 384 hours per year cleaning sewers and wet wells, and an estimated 64 hours cleaning pump lift stations. With a City-owned vacuum truck, the sewer lines and wet wells will be cleaned three times a year and will allow for three times the amount of sewer lines to be cleaned annually versus the amount currently cleaned. The City-owned vacuum truck and televising camera will also help with the City's emergency bypass preparedness for main breaks and lift station failures. Currently, the City has to contract with a private contractor or with the City of New Richmond for emergency situations. It can take up to two hours to get a vacuum truck and televising equipment on site during an emergency situation.

The Public Works department will also use the vacuum truck on various projects. It will be utilized during the winter months to thaw frozen storm sewer lines and clean leaves out of catch basins, inlets and culverts. The Sewer department, where the vacuum truck will be housed, will use the truck for a minimum of one week annually in order to clean the two scum pits at the Waste Water Treatment Plant. In total, Public Works and the Sewer departments will use the vacuum truck at least 100 hours annually.

Vacuum Truck and Televising Camera

The vacuum truck and the televising camera would be purchased from a city in Wisconsin which wishes to remain anonymous until the truck and camera are purchased. The City of River Falls will have the right of refusal once the truck and camera are delivered. The truck comes with a three month warranty and the camera includes a one year warranty. The 2007 Vector vacuum truck includes:

- Approximately 11,500 miles
- 1,500 hours
- Twelve Cubic Yard debris body
- 1,500 gallon water capacity
- Eight foot telescoping boom with 180 degree rotation
- 80 GPM/2000 PSI Water Pump System

FINANCIAL CONSIDERATIONS

Over the past 12 years the City has spent an average of \$38,963 per year and a total of \$467,557 on contracting out sewer cleaning and TV inspection. The table below summarizes the annual payments made to Green Bay Pipe & TV, Visu-Sewer, and LNT Utility.

2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014*	2015**
\$ 34,672	\$ 35,141	\$ 35,180	\$ 45,510	\$ 38,450	\$ 37,125	\$ 35,550	\$ 22,425	\$ 39,204	\$ 42,135	\$ 60,165	\$ 42,000

*In 2014, both Green Bay Pipe & TV and Visu-Sewer were contracted

**In 2015, LNT Utility was contracted

The cost for the 2007 Vactor vacuum truck and the televising camera totals \$240,000. The average cost for a new vacuum truck is \$420,000 and \$56,000 for new televising equipment. The 2015-2019 Capital Improvement Plan includes \$200,000 for a used vacuum truck and \$50,000 for televising equipment in 2016. The vacuum truck and televising camera are expected to come in \$10,000 under what was budgeted in the CIP.

CONCLUSION

It is staff's recommendation that the Utility Advisory Board approve the resolution with a recommendation to the River Falls City Council approving the purchase of the 2007 Vactor vacuum truck and televising camera.



RESOLUTION NO. 2016-013

**RESOLUTION APPROVING THE PURCHASE OF
VACUUM TRUCK AND CAMERA**

WHEREAS, The River Falls Municipal Utilities currently contracts out all of the City's vacuum truck needs including sewer cleaning, wet well cleaning, and TV inspection; and

WHEREAS, over the past 12 years, the City has spent an average of \$38,963 per year and a total of \$467,557 on contracting out sewer cleaning and TV inspection; and

WHEREAS, the number of projects that can be completed annually with a City-owned vacuum truck and televising camera will increase; and

WHEREAS, the 2015-2019 Capital Improvement Plan includes \$250,000 for a used vacuum truck and televising equipment to be purchased in 2016; and

WHEREAS, the total cost for the 2007 Vector vacuum truck and televising camera totals \$240,000; and

NOW, THEREFORE, BE IT RESOLVED that the City of River Falls Utility Advisory Board recommends purchasing the 2007 Vector vacuum truck and televising camera in the amount of \$240,000 to the Common Council.

Dated this 18th day of July, 2016.

Grant Hanson, President

ATTEST:

Lu Ann Hecht, City Clerk



Utility Projects Update

River Falls Municipal Utilities



Wastewater Treatment Plant



- The WWTP project is well underway and is scheduled for a November 2016 completion
- 4+ million dollar project
- Work is being done by Miron Construction
- MSA is our consulting Engineer “the project is going smoothly and running on time”
- On budget

Wastewater Treatment



Wastewater Treatment



Wastewater Treatment



Wastewater Treatment



Wastewater Treatment



Wastewater Treatment



Power Plant

- ~ 4 million dollar project
- Isolate electric from old Power Plant
- Update outdated and inefficient equipment

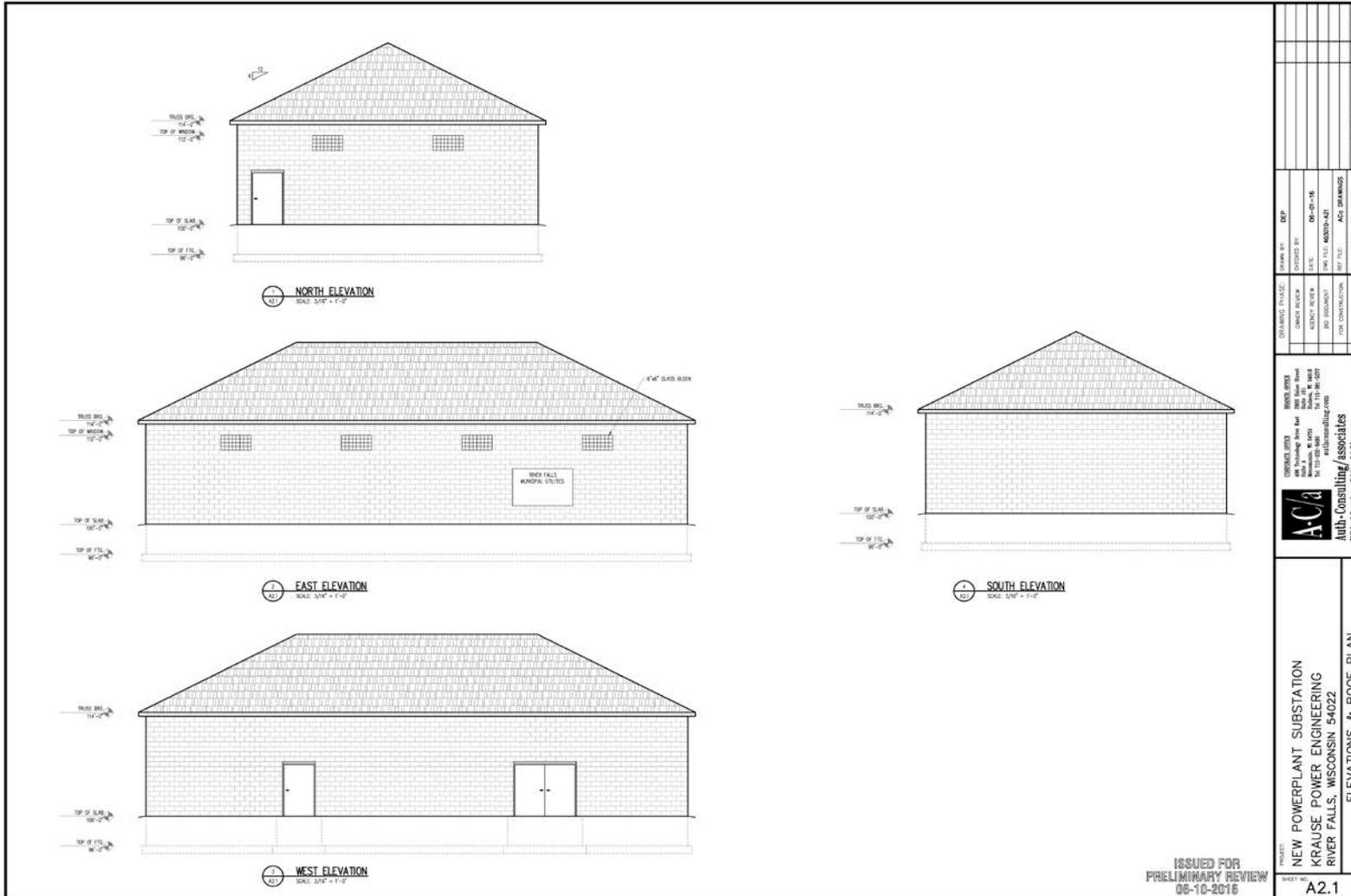


Power Plant

- Transformer (Virginia Transformer) and switch gear (Siemens Industries) ordered
- Erecting our building this year
- Setting transformer, switch gear and wiring by June 2017
- XCEL new building in 2017 as well



Power Plant - Proposed Elevations of New Switch Building



Sycamore Water Tower

- The Sycamore Water Tower Rehabilitation Project is on schedule and on budget
- \$650,000 contract
- Classic Protective Coatings is our Contractor
- Extensive community outreach
- Scheduled to be complete first week of August or maybe a bit sooner



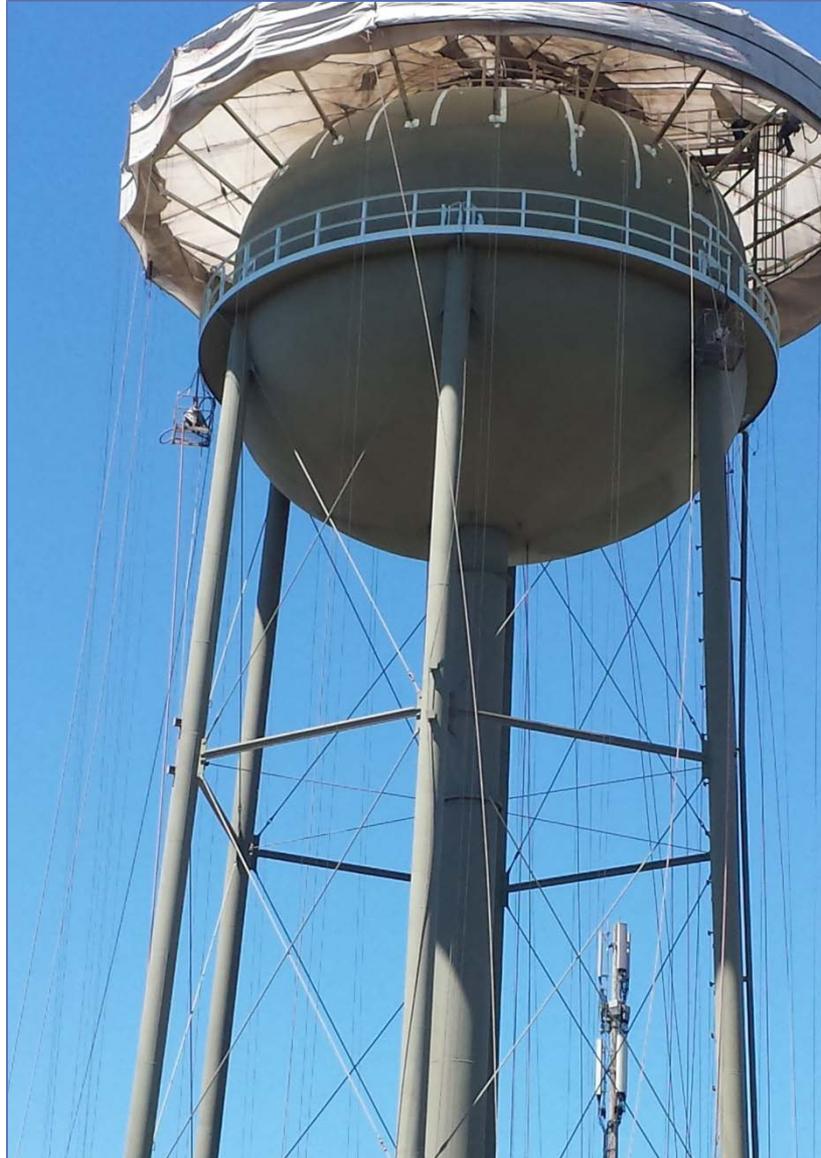
Sycamore Water Tower



Sycamore Water Tower



Sycamore Water Tower



UW River Falls Logo

UW River Falls

Radio Road Boring

- This is a crucial piece of infrastructure for our Electric Utility that moves 3-phase power to Mann Valley and moves us close to redundancy with a loop feed for Sterling Ponds Corporate Park.
- 3 phase
- \$129,700
- Universal Services, Inc. is our contractor
- Boring will be completed by Mid-July
- Cabling and cabinets installed by late September



Chapman Drive

- Conduit installation for future 3-phase and street lights. Joint trench with St. Croix Gas, Comcast, and AT&T
- Big thank you to Public Works!! 6 to 8 guys & operator.



Chapman Drive Street Lights

- 53 Watt LED lights
- Similar to the ones on Paulson Road just North of Shopko



South Fork Relay Replacement Project

- The four distribution (feeder) relays are mid 1990's.
- Transformer relay is four years old (can use this transformer relay as a backup for other subs in the future if we have problems).



South Fork Relay Replacement

South Fork Battery Control



South Fork Relay Panel Control



South Fork Relay Replacement

South Fork Batteries



South Fork Back Panel Relays

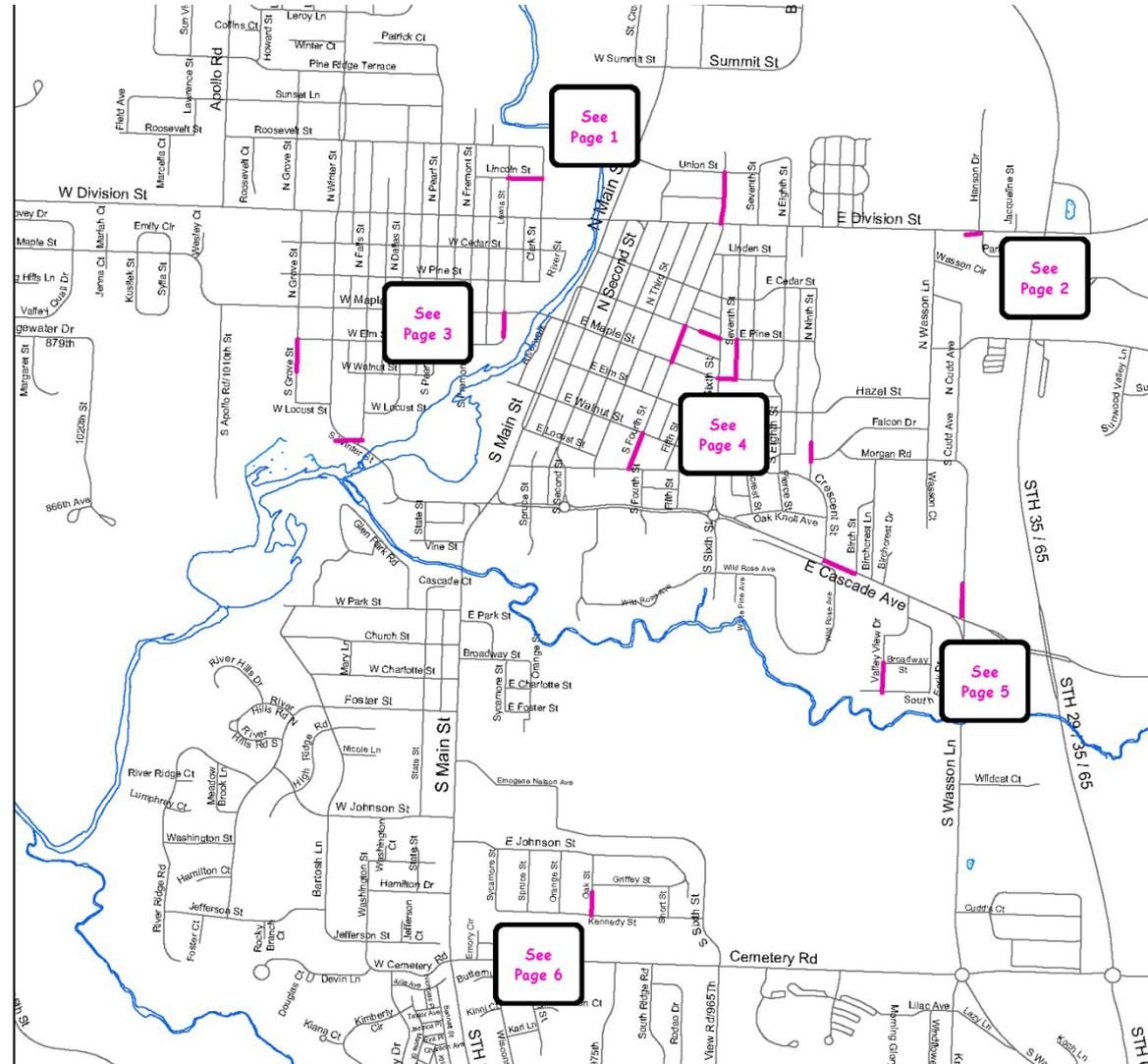


2016 Sanitary Sewer Lining

- Lining 5,559 ft.
- The 2016 Sewer Fund budget includes \$160,000 in the sewer maintenance line item for sanitary sewer pipe rehabilitation and maintenance.
- Pre-cleaning for the lining is due to start week of July 18th.
- Actual lining scheduled to start on Sept. 6th.
- Ritter & Ritter is the subcontractor doing the pre-cleaning.
- Insituform is the company doing the lining.

Sewer Lining Area

Lincoln St
 N Fourth St
 Division / Parkview Ln
 S Grove St
 E Pine St / 7th St
 E Maple St
 S Fourth St
 S Ninth St
 E Cascade
 S Wasson Ln
 Valley View Dr
 Oak St
 Falls St
 Winter St



Hydro & Solar Output



Brian Hatch

Hydro: about 254 homes worth of electricity



Community Solar: about 39 homes worth of electricity

2016	Hydros - kwh	Community Solar - kwh
jan	170,000	12,237
feb	151,559	19,155
mar	173,090	22,130
april	185,715	28,861
may	203,922	38,903
june	187,194	38,903
Total	1,071,480	160,190

Potential Vac Truck Addition

Cleaning and TVing Equipment



North Interceptor Project

- In coordination with Reid Wronski, City Engineer





July 13, 2016

To: Utility Advisory Board

From: Tracy Biederman, Accountant

Re: **June 2016** Financial Statements (Electric, Water, Sewer, Storm Water)

Electric fund: Total revenue for the six months ending is \$6,534,442. Year to date total expenses are \$6,377,886; generating a net income of \$156,556.

- Charges for services have decreased by \$319,386 in 2016 in comparison to 2015.
- WPPI's wholesale power bill for the six months ending has a \$265,324 savings as compared to 2015.
- Transmission expenditures typically consist of contracted line clearing; this is a cyclical expenditure and very little is expected in 2016 as compared to actuals in 2015.
- Other operating expenses have increased with the additional depreciation related to Plant purchases in 2015; mainly the bucket truck, transformers, and Underground Conductors installed.
- Period ending cash and investments balance is a positive \$7.64 million.

Water fund: Total revenue for the water fund is \$848,827. Year to date total expenses are \$821,422; generating a net income of \$27,405.

- For the six months ending, \$27,500 of water meter related expenses has been jointly allocated to the sewer fund.
- The water fund also recognizes an apportionment of the rate of return on water meters as revenue; the six month period total is \$12,152.
- The transfer of meter related expenses, depreciation on meters, and revenue earned realizes a period net income of \$88,876.
- Period ending cash and investments balance is a positive \$1.55 million.

Sewer fund: Year to date revenue for the sewer fund is \$1,681,681. Year to date total expenses are \$1,336,541; generating a net income of \$345,140.

- Other financing has increased with the collection of impact fees on new construction.
- Maintenance of Treatment plant and Biosolids handling are still at a decline for the period ending as compared to 2015.
- Customer accounts are higher as the meter related expenses have been transferred from the Water Fund.
- Period ending cash and investments balance is a positive \$7.37 million.

Storm Water fund: Year to date revenue for the storm water fund is \$261,898. Year to date total expenses are \$249,390; generating a net income of \$12,509.

- Expenses are higher in 2016 due to the timing of Curb and Gutter, catch basins replacements paid out during June whereas 2015 was paid in September.
- Period ending cash and investments balance is a positive \$324,901.

Please contact me if you have any questions regarding the monthly financial reports.



Balance Sheet June 2016

FUND	Description	Period Net Change	Account Balance
610 Electric			
Assets	Total Assets	183,692.85	21,324,497.34
	Cash and Investments	(40,511.00)	7,645,258.94
	Accounts Receivable	251,788.56	1,322,213.76
	Prepaid & Inventory	(14,298.93)	730,796.34
	Construction in Progress	53,442.14	261,662.52
	Capital Assets	0.00	24,340,282.24
	A/D Capital Assets	(66,727.92)	(13,084,578.46)
	Deferred Resources	0.00	108,862.00
Liabilities	Total Liabilities	(142,555.45)	(1,170,934.81)
	Accounts Payable	(96,079.73)	(1,075,329.50)
	Non-Current Liability	(22,113.00)	(114,353.75)
	Debt Outstanding	819.91	(107,163.71)
	Deferred Resources	(25,182.63)	125,912.15
Fund Balance	Total Fund Balance	(41,137.40)	(20,153,562.53)
	Fund Balance	(41,137.40)	(20,153,562.53)
	Total Liabilities + Fund Balance	(183,692.85)	(21,324,497.34)



Balance Sheet June 2016

FUND	Description	Period Net Change	Account Balance
620 Water			
Assets	Total Assets	82,405.04	15,649,644.39
	Cash and Investments	100,904.45	1,557,379.82
	Accounts Receivable	10,128.98	142,566.38
	Prepaid & Inventory	5,958.77	61,278.89
	Non-Current Assets	63.90	337,556.33
	Construction in Progress	2,249.52	96,603.93
	Capital Assets	0.00	18,892,461.55
	A/D Capital Assets	(36,900.58)	(5,483,062.41)
	Deferred Resources	0.00	44,796.00
Liabilities	Total Liabilities	6,470.83	(1,901,160.22)
	Accounts Payable	11,834.93	(39,779.45)
	Non-Current Liability	14.86	(29,315.73)
	Debt Outstanding	(5,378.96)	(1,832,065.04)
Fund Balance	Total Fund Balance	(88,875.87)	(13,748,484.17)
	Fund Balance	(88,875.87)	(13,748,484.17)
	Total Liabilities + Fund Balance	(82,405.04)	(15,649,644.39)



Balance Sheet June 2016

FUND	Description	Period Net Change	Account Balance
630 Waste Water			
Assets	Total Assets	2,703.58	27,527,790.55
	Cash and Investments	44,337.30	7,373,502.16
	Accounts Receivable	4,280.71	320,750.31
	Prepaid & Inventory	(2,619.58)	26,362.60
	Non-Current Assets	142.84	411,206.99
	Construction in Progress	0.00	850,703.07
	Capital Assets	0.00	27,811,941.54
	A/D Capital Assets	(43,437.69)	(9,327,654.96)
	Deferred Resources	0.00	60,836.00
Liabilities	Total Liabilities	36,804.31	(9,750,179.85)
	Accounts Payable	57,066.00	(341,113.73)
	Non-Current Liability	1,976.00	40,040.29
	Debt Outstanding	(20,224.08)	(9,611,545.52)
	Deferred Resources	(2,013.61)	162,439.11
Fund Balance	Total Fund Balance	(39,507.89)	(17,777,610.70)
	Fund Balance	(39,507.89)	(17,777,610.70)
Total Liabilities + Fund Balance		(2,703.58)	(27,527,790.55)



Balance Sheet June 2016

FUND	Description	Period Net Change	Account Balance
640 Storm Water			
Assets	Total Assets	6,515.73	6,196,244.09
	Cash and Investments	20,396.52	324,901.59
	Accounts Receivable	(652.86)	48,072.17
	Prepaid & Inventory	(324.00)	1,124.00
	Construction in Progress	0.00	5,580.88
	A/D Fixed Assets	(12,903.93)	5,800,189.45
	Deferred Resources	0.00	16,376.00
Liabilities	Total Liabilities	(32,263.63)	(238,271.37)
	Accounts Payable	(32,263.63)	(72,336.62)
	Debt Outstanding	0.00	(165,934.75)
Fund Balance	Total Fund Balance	25,747.90	(5,957,972.72)
	Fund Balance	25,747.90	(5,957,972.72)
Total Liabilities + Fund Balance		(6,515.73)	(6,196,244.09)



Financial Statement

June 2016

	Current Year				Prior Y-T-D
	Budget	Month	Y-T-D	% Budgeted	
610 - Electric					
Revenue					
Charges for Services	\$14,189,533	\$1,150,758	\$6,338,316	45%	\$6,657,702
Interest	\$15,000	\$2,882	\$19,373	129%	\$12,338
Miscellaneous	\$622,488	\$27,462	\$171,848	28%	\$173,114
Other Financing	\$30,000	\$453	\$4,905	16%	\$118,276
Deferred Resources	\$0	\$0	\$0	0%	\$0
Total Revenue	\$14,857,021	\$1,181,555	\$6,534,442	44%	\$6,961,431
Expense					
Hydraulic Power Generation	\$32,569	\$2,534	\$33,953	104%	\$22,861
Purchased Power	\$10,866,597	\$841,447	\$4,584,478	42%	\$4,849,802
Transmission	\$25,997	\$2,729	\$6,379	25%	\$51,053
Distribution	\$1,106,753	\$75,600	\$432,168	39%	\$434,453
Customer Accounts	\$621,039	\$43,762	\$253,907	41%	\$251,445
Administrative & General	\$394,911	\$25,981	\$169,087	43%	\$161,748
Other Operating Expenses	\$764,700	\$66,728	\$408,094	53%	\$391,326
Debt Service	\$277,008	\$25,183	\$151,096	55%	\$0
Transfers to Other Funds	\$767,447	\$56,454	\$338,724	44%	\$317,648
Total Expense	\$14,857,021	\$1,140,417	\$6,377,886	43%	\$6,480,335
Net Total 610 - Electric	\$0	\$41,137	\$156,556	43%	\$481,095



Financial Statement

June 2016

	Current Year				
	Budget	Month	Y-T-D	% Budgeted	Prior Y-T-D
620 - Water					
Revenue					
Special Assessments	\$0	\$0	\$0	0%	\$0
Charges for Services	\$1,313,137	\$130,360	\$680,941	52%	\$661,599
Interest	\$3,474	\$492	\$3,204	92%	\$1,065
Miscellaneous	\$459,145	\$18,568	\$74,597	16%	\$59,311
Other Financing	\$85,080	\$21,080	\$90,086	106%	\$71,138
Total Revenue	\$1,860,836	\$170,499	\$848,827	46%	\$793,112
Expense					
Transmission	\$437,754	\$2,328	\$158,253	36%	\$217,148
Pumping	\$139,492	\$9,629	\$55,311	40%	\$68,706
Water Treatment	\$75,901	\$3,134	\$44,739	59%	\$36,769
Customer Accounts	\$117,111	\$5,612	\$38,101	33%	\$36,388
Administrative & General	\$187,321	\$12,810	\$85,159	45%	\$77,242
Other Operating Expenses	\$365,844	\$6,806	\$191,578	52%	\$220,657
Debt Service	\$66,119	\$5,364	\$32,635	49%	\$34,591
Transfers to Other Funds	\$471,294	\$35,941	\$215,647	46%	\$200,721
Total Expense	\$1,860,836	\$81,623	\$821,422	44%	\$892,221
Net Total 620 - Water	\$0	\$88,876	\$27,405	45%	\$(99,109)



Financial Statement

June 2016

	Current Year				
	Budget	Month	Y-T-D	% Budgeted	Prior Y-T-D
630 - Waste Water					
Revenue					
Special Assessments	\$0	\$0	\$0	0%	\$0
Charges for Services	\$3,079,754	\$263,564	\$1,566,206	51%	\$1,514,746
Interest	\$4,500	\$1,667	\$11,394	253%	\$5,127
Miscellaneous	\$36,614	\$3,575	\$31,237	85%	\$25,665
Other Financing	\$59,480	\$24,393	\$72,846	122%	\$53,900
Total Revenue	\$3,180,348	\$293,199	\$1,681,681	53%	\$1,599,438
Expense					
Operation	\$529,477	\$30,872	\$186,678	35%	\$205,485
Maintenance	\$558,637	\$24,672	\$139,174	25%	\$178,761
Bio Solids	\$394,000	\$23,692	\$175,384	45%	\$197,653
Customer Accounts	\$285,187	\$51,868	\$85,537	30%	\$36,002
Administrative & General	\$360,773	\$20,007	\$156,742	43%	\$138,148
Other Operating Expenses	\$493,000	\$67,157	\$284,244	58%	\$259,773
Debt Service	\$99,737	\$20,262	\$217,809	218%	\$78,291
Transfers to Other Funds	\$459,537	\$15,162	\$90,973	20%	\$90,973
Total Expense	\$3,180,348	\$253,691	\$1,336,541	42%	\$1,185,088
Net Total 630 - Waste Water	\$0	\$39,508	\$345,140	47%	\$414,349



Financial Statement

June 2016

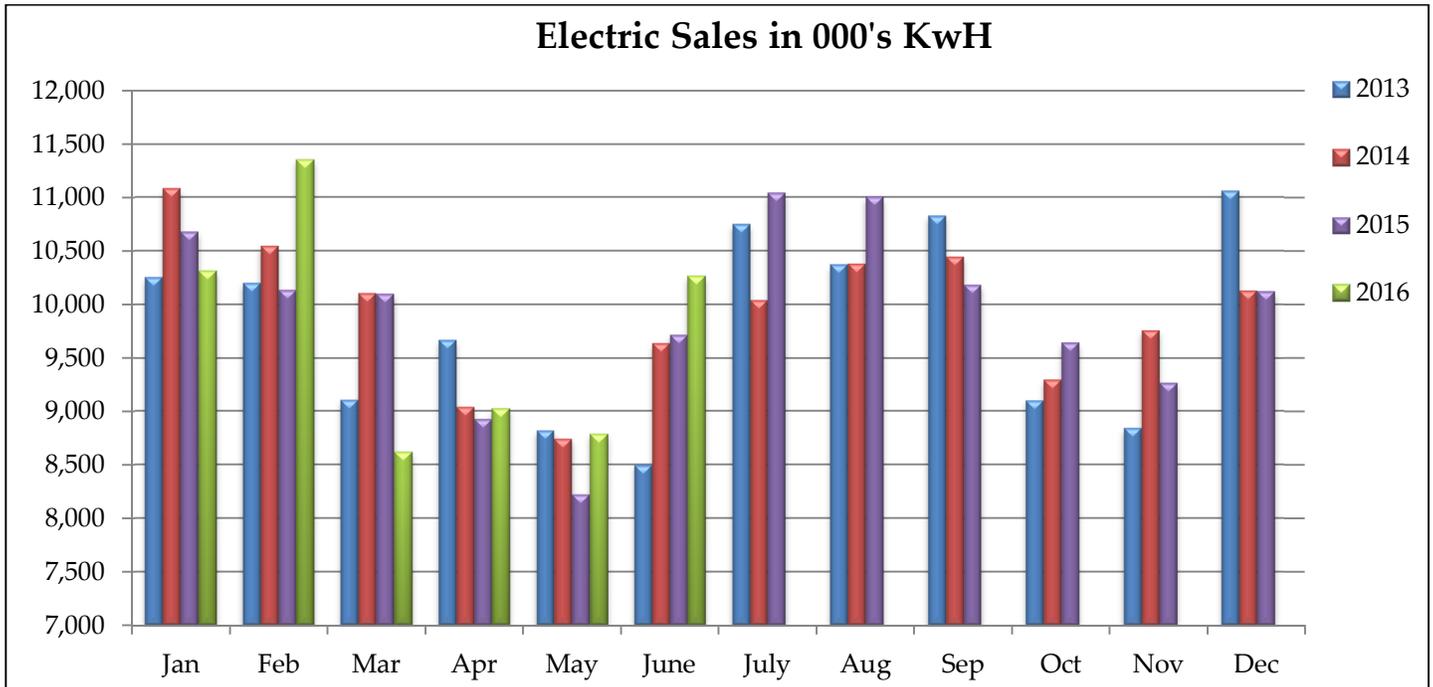
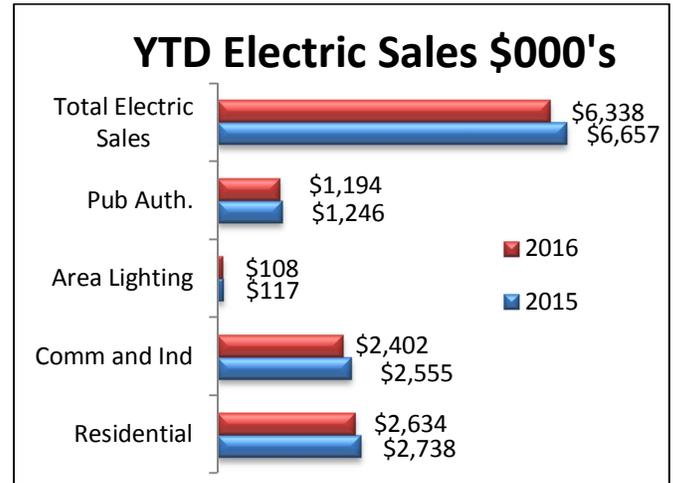
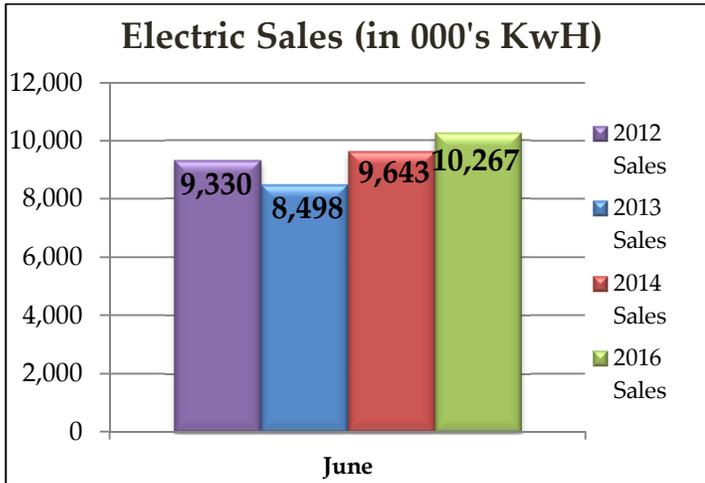
	Current Year				
	Budget	Month	Y-T-D	% Budgeted	Prior Y-T-D
640 - Storm Water					
Revenue					
Charges for Services	\$505,000	\$43,077	\$259,582	51%	\$256,759
Interest	\$500	\$0	\$(184)	(37)%	\$74
Miscellaneous	\$77,136	\$0	\$0	0%	\$0
Other Financing	\$5,000	\$417	\$2,500	50%	\$2,500
Total Revenue	\$587,636	\$43,494	\$261,898	45%	\$259,333
Expense					
Storm Water	\$587,636	\$69,241	\$249,390	42%	\$219,104
Total Expense	\$587,636	\$69,241	\$249,390	42%	\$219,104
Net Total 640 - Storm Water	\$0	\$(25,748)	\$12,509	44%	\$40,229

River Falls Municipal Utility

⚡ Electric Dashboard ⚡

June 2016

Electric Sales

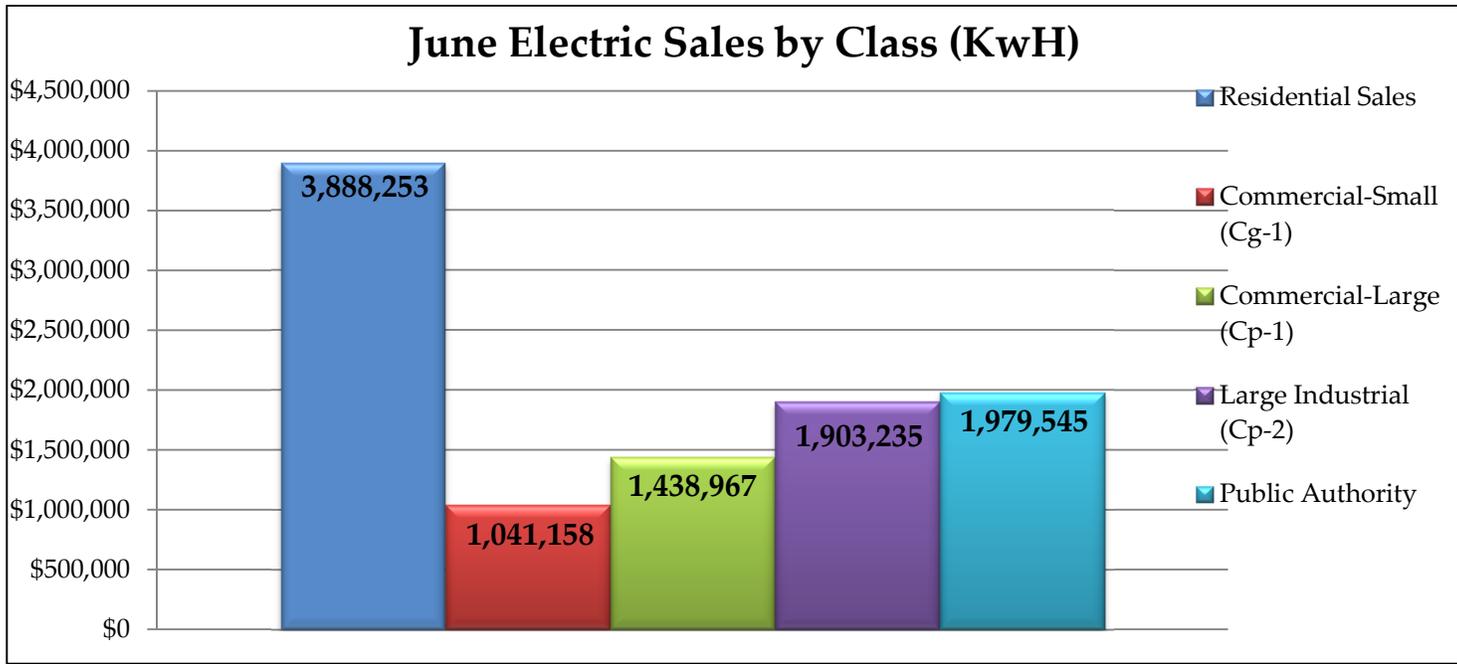


The Power of Community

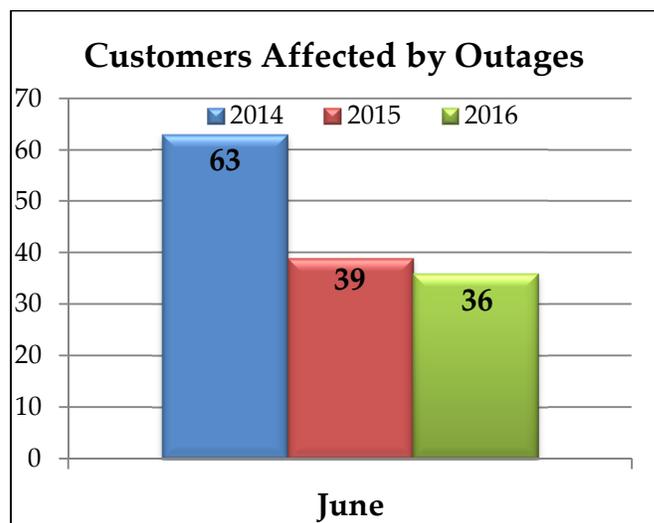
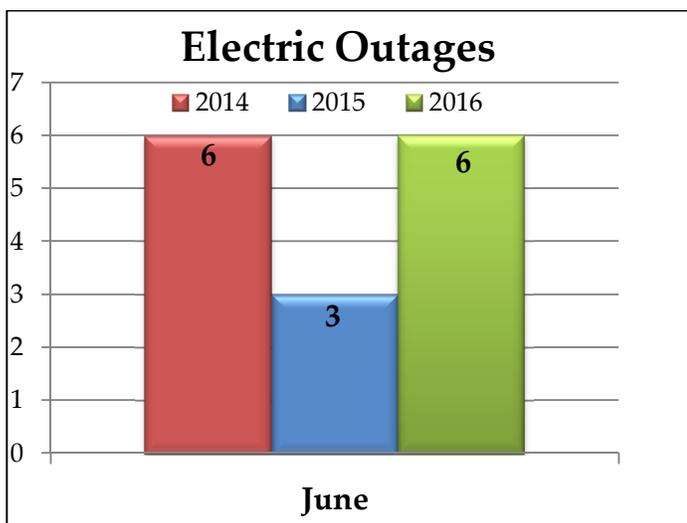
River Falls Municipal Utility

Electric Dashboard

June 2016



Electric Outages



For more information please contact: Kevin Westhuis
(715) 426-3442 or kwesthuis@rfcity.org

River Falls Municipal Utility

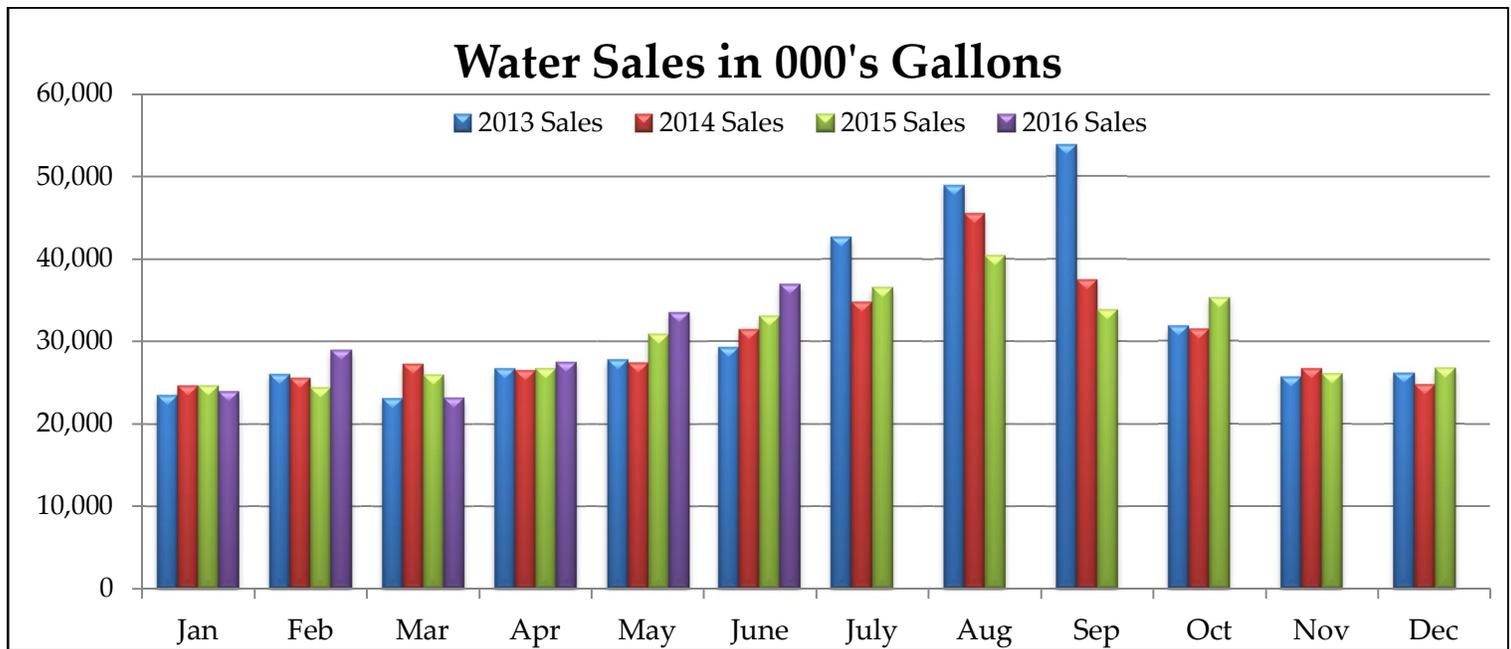
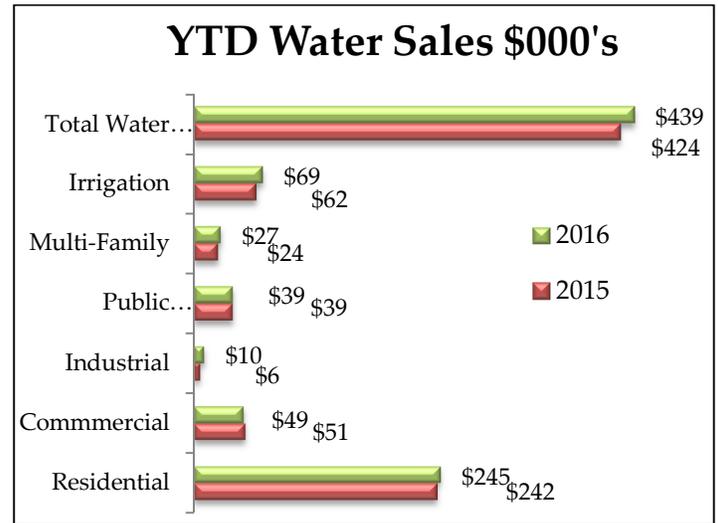
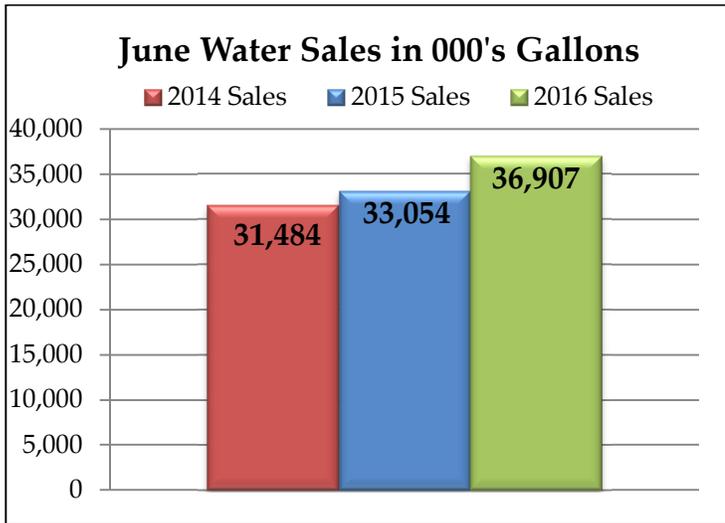


Water Dashboard



June 2016

Water Sales



Providing a safe and reliable supply of high quality water to the River Falls community we serve.

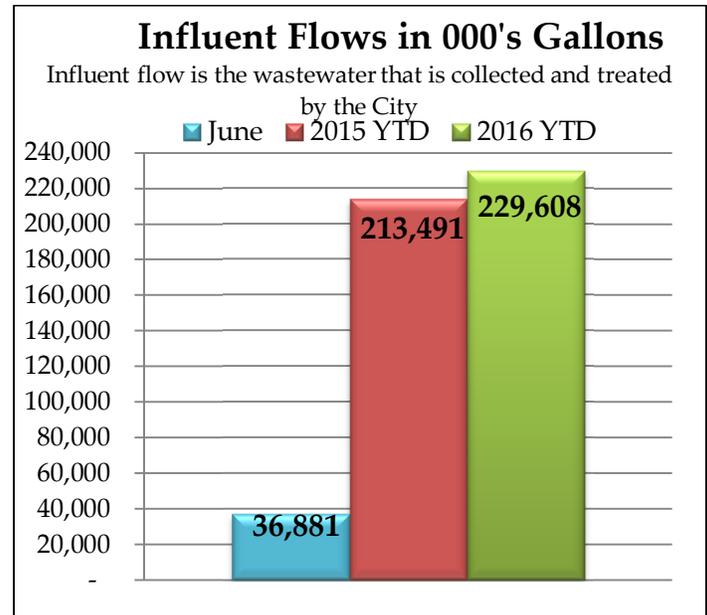
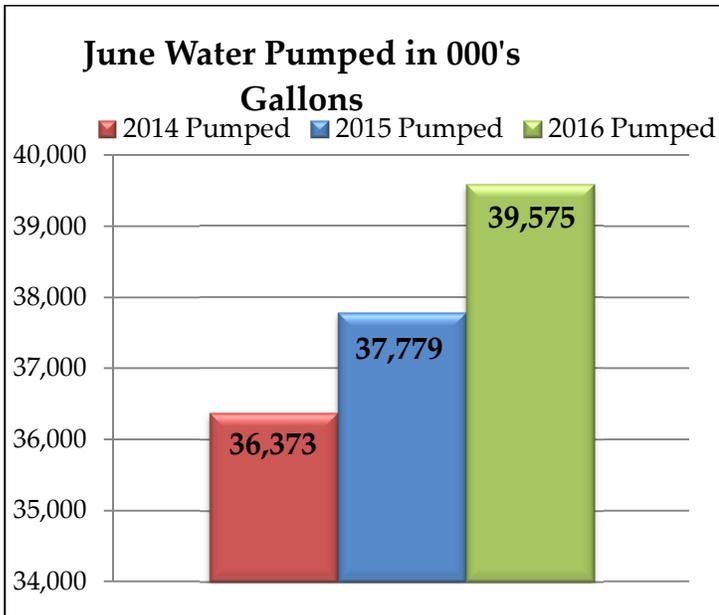
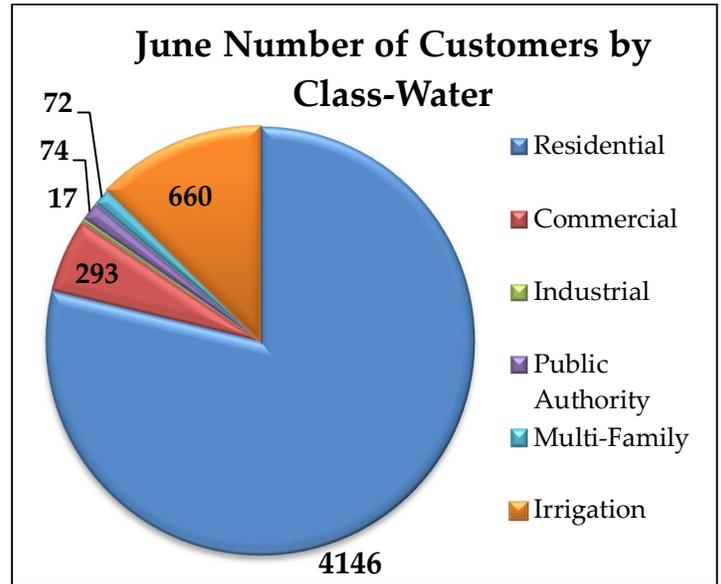
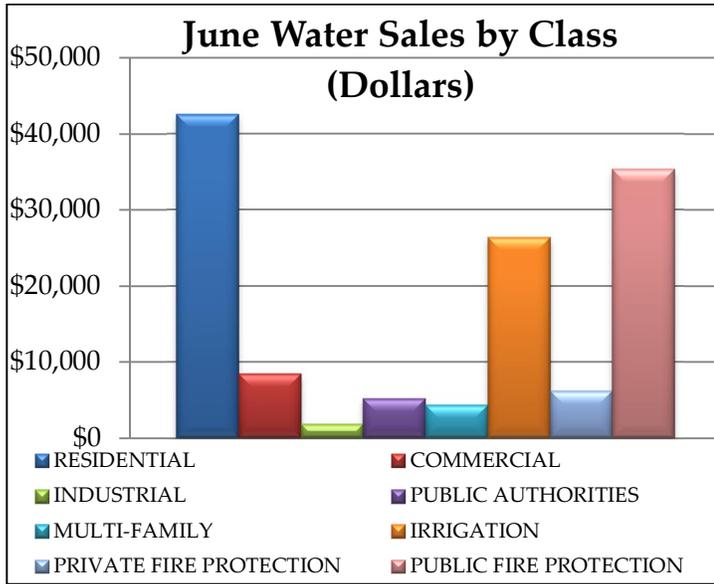
River Falls Municipal Utility



Water Dashboard



June 2016



Used as a comparison between water pumped versus water treated.

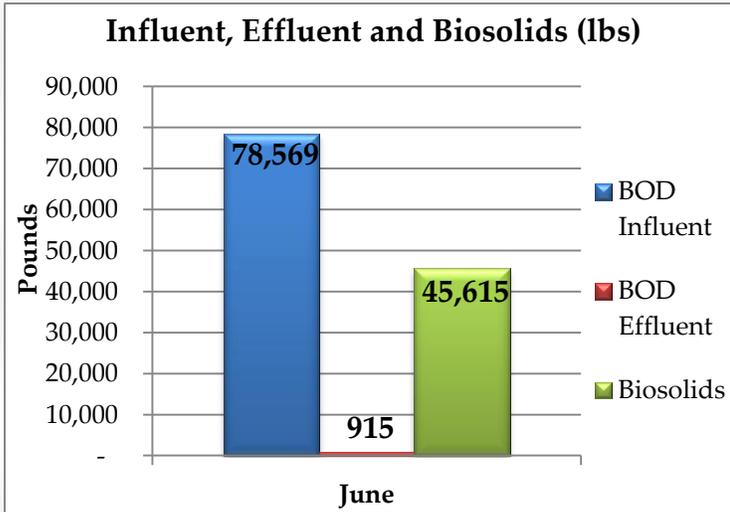


For more information please contact: Kevin Westhuis
 (715) 426-3442 or kwesthuis@rfcity.org

River Falls Municipal Utilities Waste Water Treatment Plant

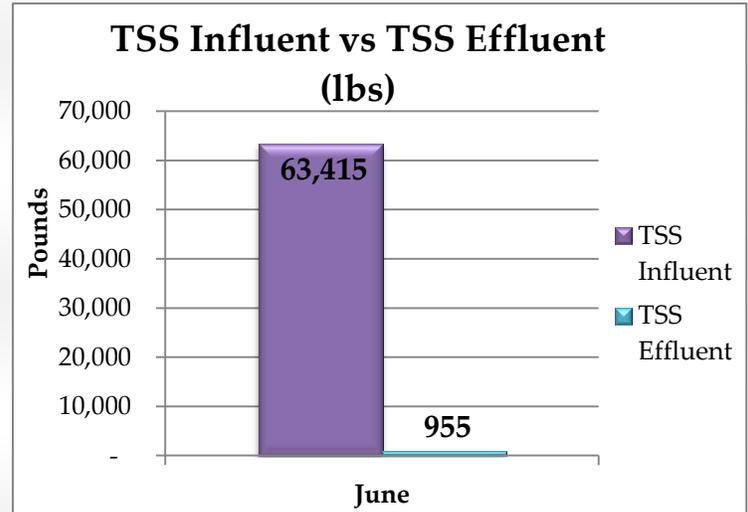
For June 2016

Influent, Effluent and Biosolids (lbs.)



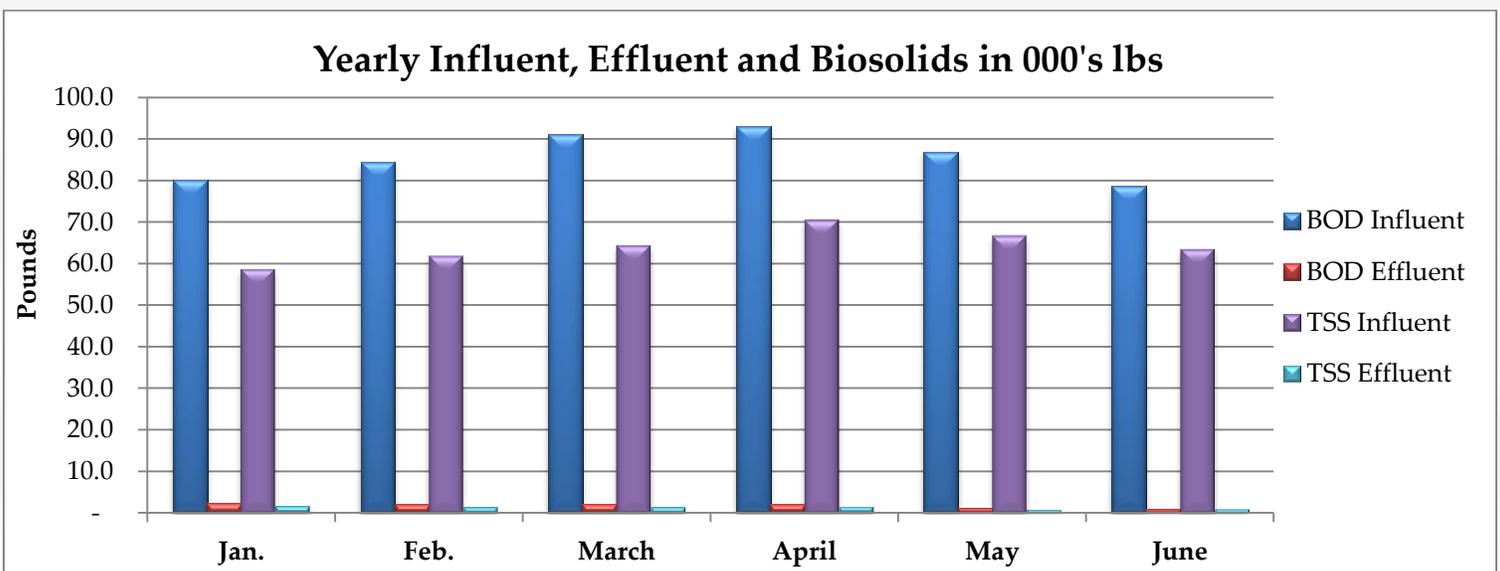
The Biochemical Oxygen Demand (BOD) Influent and BOD Effluent pounds represent pounds of oxygen needed for treatment.

TSS Influent vs TSS Effluent (lbs)



The TSS Influent and TSS Effluent represent the pounds of Total Suspended Solids entering the Waste Water Treatment Plant versus going out into the Kinnickinnic River.

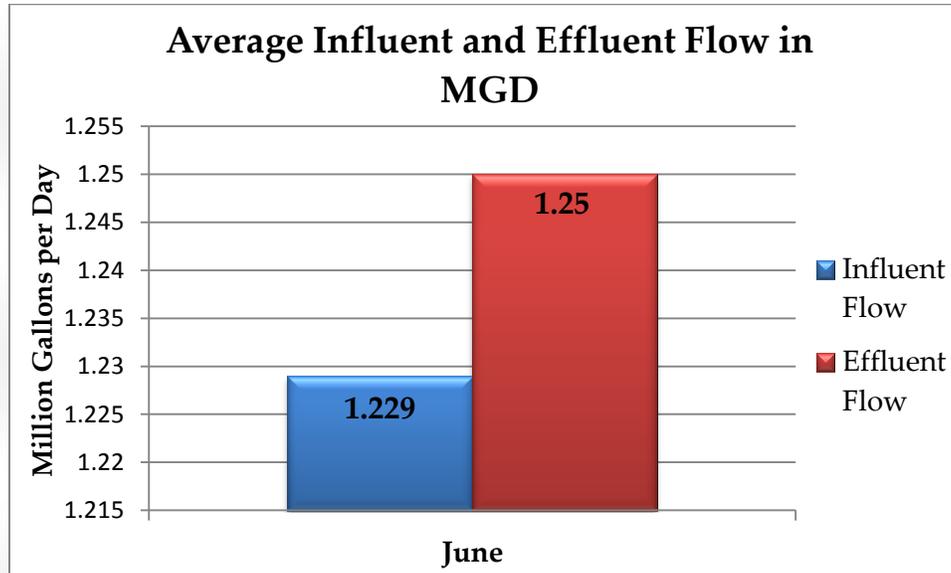
Yearly BOD and TSS Influent and Effluent (in 000's lbs.)



This graph represents the average monthly pounds of both BOD and TSS coming into the plant and being discharged at the plant's outfall into the Kinnickinnic River for the year 2016.

River Falls Municipal Utilities Waste Water Treatment Plant

Average Influent and Effluent Flow in MGD



This graph represents the average daily flow into the treatment plant as well as the average daily flow discharged into the Kinnickinnic River. The design flow for the Treatment plant is 1.8 million gallons per day (MGD).

WWTP Facts

Vocabulary:

BOD: Biochemical Oxygen Demand represents pounds of oxygen needed for treatment.

EFFLUENT: Water and waste flowing out of the Waste Water Treatment Plant.

INFILTRATION: to pass into or through (a substance) by filtering or permeating. Infiltration numbers are self-induced and not leak related.

INFLUENT: Water and waste flowing into the Waste Water Treatment Plant.

TSS: Total Suspended Solids are solid materials, including organic and inorganic, that are suspended in the water and have to be removed.

Did You Know....

- Excess bacteria removed from the Treatment Plant is called Bio-Solids which can be land spread or treated more to become a fertilizer or soil conditioner.

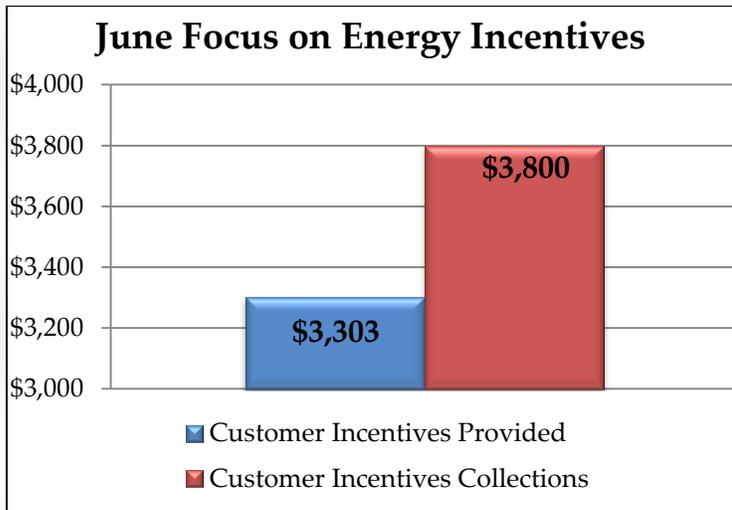


For more information please contact: Bill Swenson
(715) 426-3531 or wswenson@rfcity.org

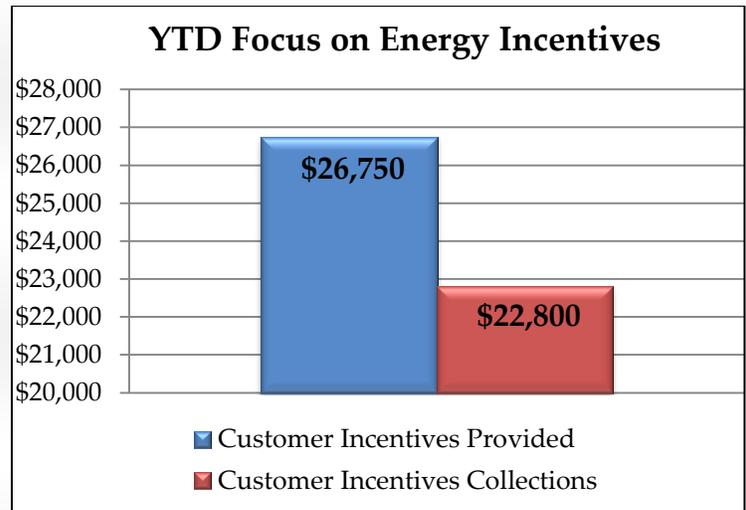
POWERful Choices! Dashboard

For June 2016

Focus on Energy Program

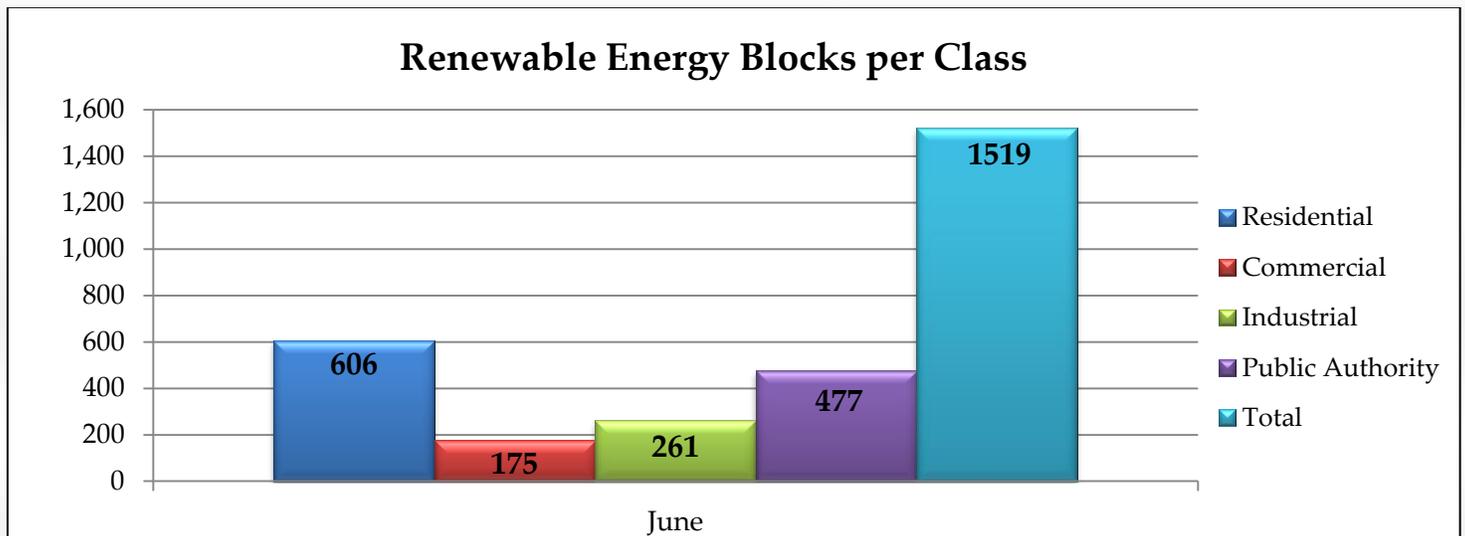


The total customer incentives provided for June compared to the customer incentives collections from Focus on Energy.



The year-to date customer incentives provided compared to the customer incentives collections from Focus on Energy.

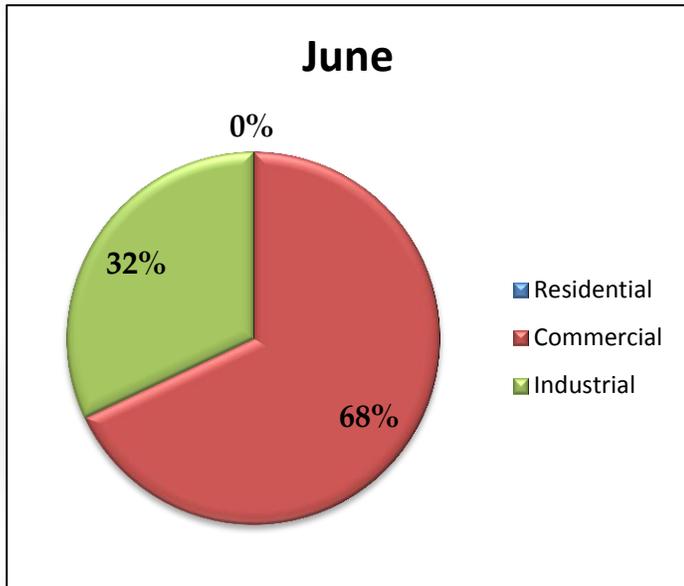
Renewable Energy Blocks



Renewable energy blocks are sold at \$3 for 300kWh of renewable energy.

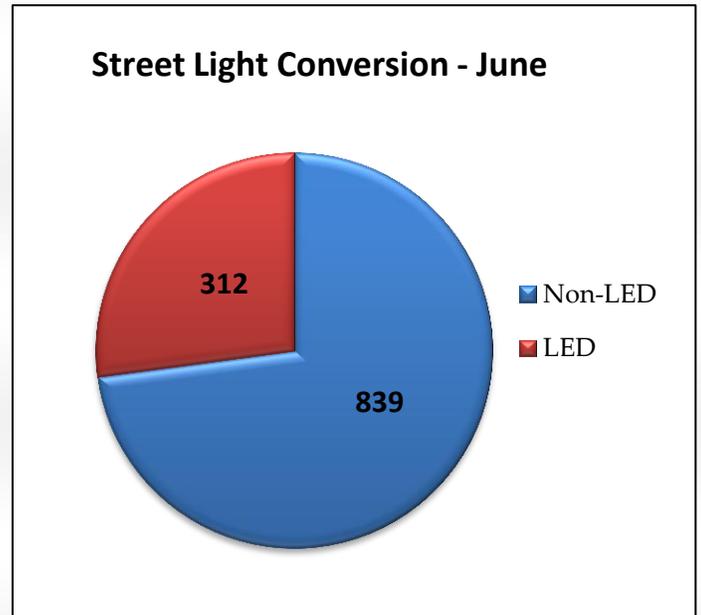
POWERful Choices! Dashboard

Energy Savings



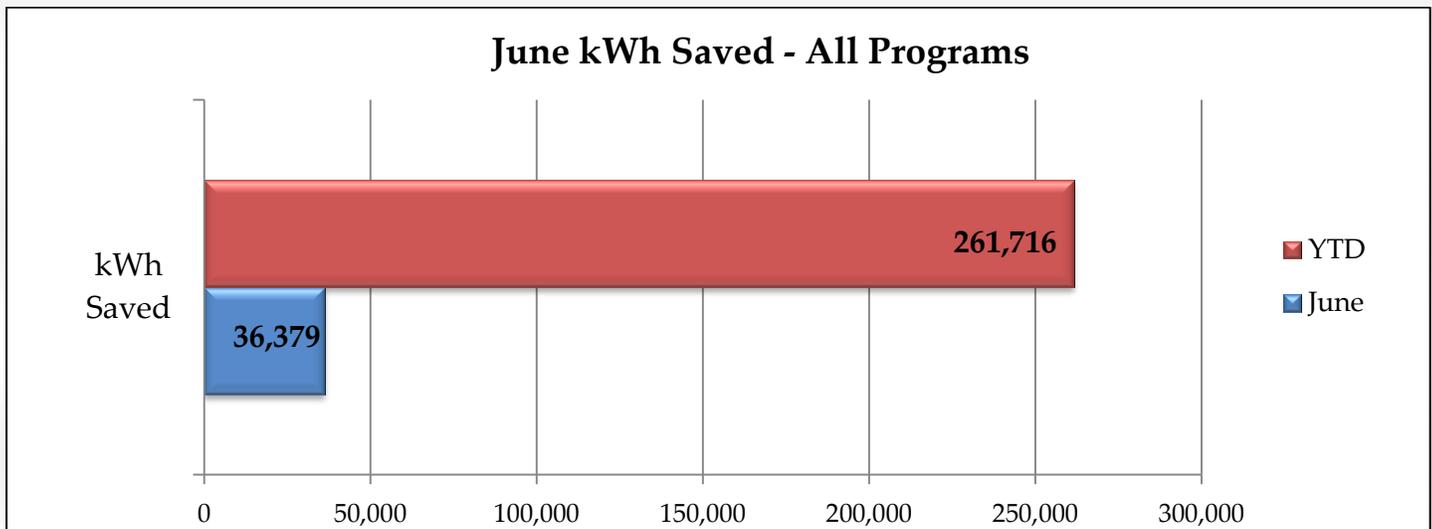
Monthly cumulative percentage of kilowatt hours saved per customer sector.

Street Light Conversion Program



This change is another example of our City leading by example in energy efficiency and environmental stewardship. The goal is to have 70 percent of the street lights converted to LED by 2018.

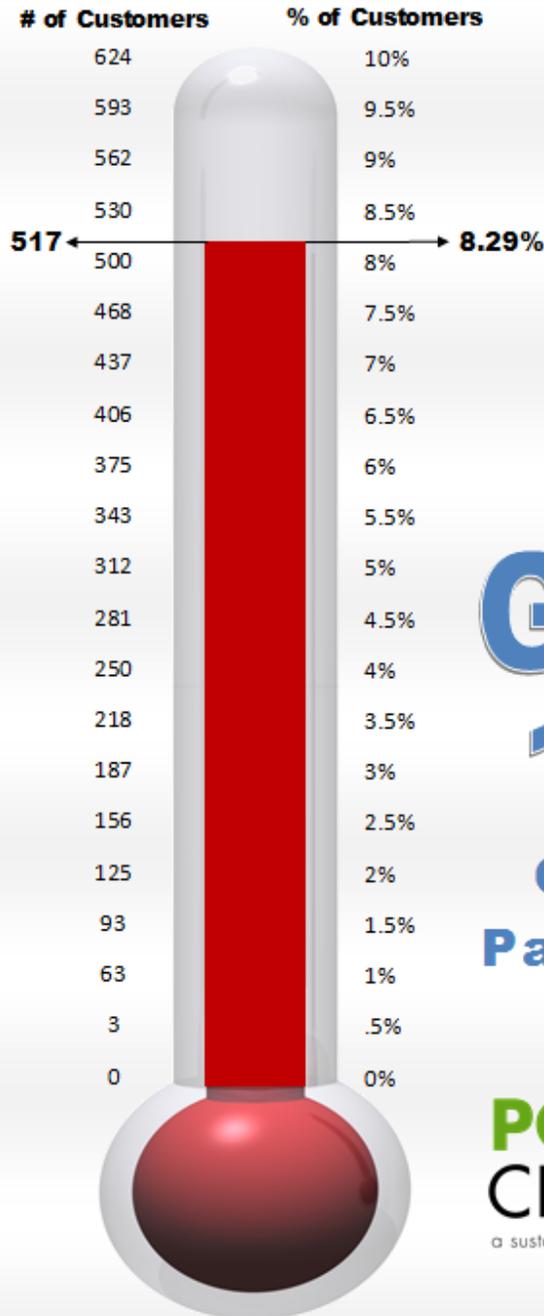
kWh Saved



Energy savings resulting from programs such as upgrades to lighting, motors, HVAC, variable frequency drives, and refrigeration. All customer sectors are included.

POWERful Choices! Dashboard

Renewable Energy Blocks



GOAL
10%
Customer
Participation

POWERFUL
CHOICES
a sustainable energy project for river falls

River Falls currently ranks 5th in the nation for customer participation and 1st in Wisconsin. The current level of customer participation in Renewable Energy Blocks is 8.14 percent. The goal is to reach 10 percent customer participation.



River Falls Municipal Utilities Monthly Report

June 2016



ELECTRIC

- Maintenance repairs performed. This is maintenance work found through our required system inspections.
- Substation monthly inspections completed.
- Underground services continue on a weekly basis.
- Replacing street lights with LED fixtures. Repaired the ones we could replace with bulbs and photo eyes.
- Meter readings continue monthly with meter reads.
- Hydro's are checked daily.
- (Cutout is what holds a fuse in, helps protect our equipment.) we have since then did some inspections on these cutouts that were installed in the same time as this one that has failed and have found a few more at this time that are failing. We are replacing the ones we see at that time. To help prevent any more unplanned outages for our customers. We have replaced some this month from those inspections.
- Disconnects have continued this month, and will continue throughout the summer and fall.
- We moved a pole and anchors at Family Fresh for the new walkway to Winter Street that will be going in this summer.
- We had to replace Mariachi Loco's transformer; it had an oil leak that could not be fixed onsite.
- There was a primary fault in the Johnson Street area. This has been repaired and is back in service.
- Work done for River Falls Days to supply temporary power for the event.
- There was a primary fault at the Family Restaurant. A directional boring crew was called to bore in a new primary for this service.
- Radio Road project started this month.



RIVER FALLS WASTE WATER TREATMENT FACILITY

- Gave a plant tour to UW-River Falls' environmental sustainability class.
- The sludge ditch mixer #3 was taken out of service for rebuilding on June 7th and reinstalled the rebuilt unit on June 10th.
- Found electrical issues with float controls on the clarifier scum pit pump. Reconfigure to operate as a single float setup versus a two float setup.
- Assisted Myron Construction on June 16th with setting up a pump to fill the new sludge storage tank with effluent from clarifier to perform a 72 hour leak check.
- The sulfur dioxide feed valve was not working on June 21st and had to bypass with a monometer. Found a bad step motor in the unit. A new motor was ordered and installed on June 27th.
- Located valves for bypassing the sludge thickener and performed a check to make sure they were functioning properly. This will be required when time comes to move DAF^T tank into the new building.
- Took the number one waste pump out of service for relocation in new building. The clarifier scum pump was also removed from service for relocation and a replacement pump was installed in a manhole temporarily.
- Met with Myron Construction and Project Manager, Mark Lundgren from MSA Professionals. Discussed the tank leaks and the need to pump down tanks and attempt repairs from the inside. Overall project is on schedule.



WATER/SEWER

- All monthly and quarterly samples taken were safe and in compliance.
- Luke Harris and Jake McNabb attended and completed a three day Cross Connection Inspection course. This is an important step for the Water Department to continue its cross training.
- Large compound meter testing is underway and should be completed to avoid any disruptions at facilities or water clarity issues before school resumes in the fall.
- Our new valve exercising program has met its goal for the year to meet compliance of DNR regulations (636 valves). This was a two month project that was completed with the new Spin Doctor (valve exercising machine). This machine saved a lot of man hours and hard labor. We are still working on valves that were found to have issues.
- Water Department is in the process of replacing old battery back-ups for the communications and controls in City facilities.
- Replacement of chemical feed tanks at wells 2, 3, 4, and 5 has been complete along with new scales for each tank (total of 8). This was part of the sanitary survey compliance mandate. In the process of calibrating scales now.
- Hydrant flushing will start as soon as the Sycamore Water Tower project is complete. Arrangements were made with UW-River Falls to also hold off their flushing until then to avoid water quality and quantity issues.
- A walk thru inspection and assessment was done to determine how to proceed with corrections of dead end water mains that could not be flushed with the rest of the system. This report was sent to the DNR and approved.
- A water sample was taken for Phase 2A in Sterling Ponds Corporate Park and proved safe. A walk thru inspection was also done for water and sewer for Phase 2A and approved.

ENGINEERING TECH WORK

- One water/sanitary lateral repair inspection.
- Four new water/sanitary lateral inspections (including TW Vending).
- Two project reviews (Sterling Ponds Corporate phase 2B, and the Hockey Association addition).
- New construction inspection, walk-thru, GPS, and mapping for Sterling Ponds Corporate phase 2A. Finished GPS and mapping the joint trench for Chapman Drive.
- Pre-construction meeting for 2016 Sanitary Lining Project (including change order PO for additional sanitary mains at the Power Plant).
- Continue work an mapping with field crew on the DNR valve operation project (spin doctor, valve exercising program).
- Sanitary statistics for Ron Groth for the new CMOM report.
- Continue work on 2016 Sanitary Manhole Rehab project (pull MH's, finish specifications, put document out on "Quest", bid project to River Falls Journal, and set bid opening date).
- Work with field crew on various electric work order mapping.



CONSERVATION AND EFFICIENCY

- Green Block Program
 - River Falls reached a goal of becoming 1st in the state in customer participation.
 - The 2016 rankings also puts River Falls at 5th in the nation
- Community Solar
 - Currently about 25% of the panels are sold
 - We expect to have the project completely subscribed by Dec. 2016
 - Conservation and Efficiency Coordinator continues to make customer contact according to internal marketing plan
 - Commercial for Community solar is now playing before the movies at the Fall Theater
 - Presented to the River Falls Rotary
- Weatherization program
 - Weatherization of 3 income eligible homes has begun
 - The costs of the Home Energy Assessments are covered by Focus on Energy as is a significant cost of the weatherization.
- Demonstration in Energy Efficiency Developments (DEED) Research
 - *A cost and comparison performance of a net-zero Eco Village with conventional construction practices-* Natalie Johnsen
 - Project was completed in June
 - Student presented research at the APPA National Conference
 - *Establishment of Pollinator Friendly Vegetation Under Solar Panels in a Community Solar Garden –* Owen Haugen
 - Research has begun with ground prep, planting, stabilizing and water
- Business Customers
 - Met with large and small power customers and Focus on Energy and WPPI reps to create customized Focus on Energy incentives. Customized incentives are time consuming for the efficiency coordinator and Focus on energy rep. but it gives the customer assurance they are meeting all the requirements of the programs, they lock in the incentive dollars and gets the paperwork completed sooner rather than later.
- Schools
 - Met with Focus on Energy and RFSD reps to discuss and implement an energy conservation tracking dashboard
 - Met with St. Bridget's staff to ensure they're taking advantage of Focus on Energy and RFMU programming
- Blue Bike program
 - The free bike share program has received excellent media attention, including mention by the American Public Power Association's CEO Sue Kelly in her opening address at the National Conference.
 - Filmed a "1 Minute wrap" with high school intern Hunter Henk
 - The Blue Bike program expand to Whitetail corporate park
 - Received salvage bikes from the police department and Pierce County

- Utility Box Beautification project
 - All 4 boxes are complete.
 - Again, we received an excellent public response to the projects
- Committees & training
 - POWERful Choices!
 - Forward Foundation
 - Healthy Foundations
 - Brought in the Blood Mobile for a blood drive at City Hall
 - Blue Bike Program
 - Green Teams
 - UW-River Falls Energy Management Team
 - Attended the Midwest Renewable Energy Fair
 - RFMU was mentioned multiple times at various venues as the leader in renewable energy and energy efficiency programming in WI.



For May 1, 2016 – May 31, 2016

Move in applications = 221
New Access My Account = 88
Disconnected Services = 36
Reconnected Services = 38

As of **6-23-16** we had a total of 6684 Active utility Accounts.

Explanation

Move in applications - Customers that came into the office to sign up for service or submitted an online application. This information also would include new construction, customers new to River Falls, and customers moving within town. Anytime we need the meters read to end one account and begin a new account.

Access My Account - This is customers logging into the utilities E-Care for the first time. E-Care is an online utility dashboard where the customers can access their individual utility account to view information and make payments.

Disconnected - These are the number of services (electric or water) disconnected for non-payment and or properties in foreclosure with outstanding balances.

Reconnected - These are the number of services (electric or water) reconnected. Customers have paid, landlords have taken over, or new owner on foreclosed properties.