

TECHNICAL STANDARDS COMMITTEE  
MINUTES  
MONTHLY MEETING  
WCTS Conference Room  
700 Doty Street  
Tuesday 1:30 PM, September 20, 2016

**Call to Order** – The meeting was called to order at 1:30p.m.

**Roll Call** – Present were Jordan Skiff, Paul DeVries, Jeremy Cramer, and Eric Otte. Nick Leonard was absent and excused.

**Approval of August Minutes**– A motion was made by Paul De Vries and seconded by Jeremy Cramer to approve the August 2016 meeting minutes. The motion carried.

**Communication Session**

*Reports on:*

- **Correspondence Relating to the Regional Wastewater System**
  - ◇Paul reported that the City Manager had a conversation with John St. Peter regarding the 2000 Wastewater Agreement. John mentioned that the 2000 Wastewater Agreement can be reopened after twenty years but does not have to be reopened. Eric said this topic was to be discussed at the September OSG meeting. Paul and Eric suggested that the City and TSC members go through the 2000 Wastewater Agreement and bring their suggested changes to the November and December TSC meeting. Based on those proposed changes, perhaps an option could be to make amendments to the document
- **Records Exchange – Update of Contact List**
  - ◇Jeremy explained to Eric (who was not present at the August TSC meeting) the importance to utility personnel of maintaining an updated emergency contact list. Since that August discussion, utility personnel have received an update to the emergency contact list for Empire #1.
  - ◇Jeremy said the Nick wanted to talk about the utility CIP projects that are on the horizon and how OSG members were going to pay for them. Jeremy will be scheduling a meeting with City Comptroller staff to talk about that issue.
- **Sewer or System Improvements Anticipated, in Progress or Completed (Extensions or Rehabilitations)**
- ◇Eric reported that a sewer design plan has been submitted to the ECWRPC for the sewer extension on Rogersville Road.
  - ◇Paul reported that sewer work is near completion on Tompkins St. The contractor will move to 10<sup>th</sup> St. next. The manhole rehabilitation project will continue to mid-October.
- **FP or RSAP Amendments Anticipated, in Progress or Completed**
- **Metering and Sampling**
  - ◇Eric reported that the sanitary district met with the owner (Larry) of La Clare Farms regarding the metering and sampling plan that has yet to be implemented. Larry contracted with Badger Labs to design a plan. Badger Labs submitted three plans to Larry but Larry has yet to neither make a selection nor implement a plan.

◇Jeremy said the quarterly OSG meter calibrations were completed in September. He also reminded Eric to keep the stations clean. Utility personnel are removing all debris that they can see and reach and will continue to do so. Jeremy recommended that the OSG create a scheduled maintenance plan for all of the stations.

◇Eric said the Town of Fond du Lac Sanitary District #3 hired the firm of Mulcahy Shaw to install a laser velocity meter at the Blue Heron apartments. This type of meter operates more dependably in low-flow conditions. The meter will be installed on a trial bases and used to compare the results from that meter to the results from the meter that's presently installed. Depending on the results, the current meter may be replaced, a new meter type installed and the current set-up reconfigured.

◇Paul is reviewing information on laser velocity meters for the City and plans on replacing flow meters currently in place, with the laser velocity meters, as budget allows.

◇Jeremy informed Eric that the utility SCADA system recorded that the Town of Fond du Lac Sanitary District #3 experienced a significant increase in flow on 9/9/16, sometime between 10:00 a.m. and 2:00 p.m. In the future, Jeremy has instructed utility staff to grab a sample when this type of spike is recorded. Eric will check the meters at Blue Heron and Streblov apartment complexes to see if there is a possible connection.

- **Clearwater Reduction Fund Status and Party Activity**

◇None

- **Receive Sewer Project Closeout Records and Shared Sewer Cost Calculations**

◇None

- **Distribute Updates to Regional Sewer Design and Constructions Standards and TGM Revisions**

◇None

## **Technical Session – Consent Agenda**

*Review as needed:*

- **Review and evaluate new products and technology for incorporation into the standard specifications.**
- **Monitor the assessment, accumulation and use of the Clearwater Reduction Funds**
- **Maintain procedures and protocol for compliance with the Agreement**
- **Review and recommend proposed changes, revisions, clarifications, and amendments to the Parties regarding the Agreement and the TGM**
- **Consider and decide requests for specification waivers**
- **Prepare appropriate specification amendments**
- **Review shared sewer cost calculations for compliance with TGM procedures Conduct review of proposed revisions to the 2000 RSAP to identify potential regional impacts**

## **Additional Items**

- **WCTS Operations Update**

◇New membranes are being installed on the diffusers in two of the three aeration basins. The old membranes had developed tears and were no longer functioning properly. The membranes were eight years old. The typical lifespan is between five and ten years.

◇The field has been narrowed to two vendors for the selection of a side-stream ammonia process. Considerations are maintenance, operations, cost, and reuse of existing plant facilities.

◇The plant brochure has been updated with new content and photos. The last update was in 2008. The new brochure better reflects the technology and processes used at the plant today.

◇The website is being updated to make it more user-friendly and provide more material to educate the public on current issues facing the wastewater industry.

◇Jeremy has a phone conference scheduled on 9/21/16 with Mark Stanek, Wisconsin Department of Natural Resources basin engineer, to discuss phosphorus and find out if the plant will receive an extension to submit their plan to meet, at this time, an unknown TMDL.

◇Jeremy said the plant is well prepared in the event that there is significant rainfall over the next several days. All influent pumps are in operation. There is one empty primary clarifier, one empty aeration basin, and two empty excess flow clarifiers.

◇ There were some minor issues at some of the storm lift stations during the last rain event but they did not result in any significant problems.

◇Jeremy said the City might be installing a fish cleaning station at Lakeside Park West in 2017. Jeremy suggested to Eric that the proposed fish cleaning station in Calumet have good flow, know what the loadings are, and that the line can be flushed. There will be a water meter on the station to help in determining use of the station.

◇The Clearas pilot study produced great results. The algae based phosphorus and nitrogen removal system consistently met low-level phosphorus limits during the trial period. This process not only removes soluble non-reactive phosphorus but also produces a by-product that could become a revenue source for the utility. Additionally, because the effluent water is so clean, there is a strong possibility of water re-use. Jeremy cautioned TSC members that because this is a biological process it could be affected by high flows, high loadings, and water temperature variation. Clearas hosted an open house in September. Guests included Marquette University professors, and wastewater professionals from plants all over Wisconsin. A full-scale implementation of the Clearas technology would cover 1.8 acres and cost approximately \$20 million dollars.

### **Adjournment**

◇A motion to adjourn was made by Jordan Skiff and seconded by Eric Otte. The motion passed. The meeting adjourned at 2:12 p.m. The next meeting is scheduled for October 18, 2016.