



## TECHNICAL COMMITTEE MEETING MINUTES

Wednesday, December 13, 2023

4:30PM

Via VIDEO/TELECONFERENCE

### Attendees:

Ed Kelly	Acting Chairman, Technical Committee
Merritt Nesin	Committee Member
Steve Bagwin	Committee Member
Bill Brink, P.E.	Executive Director, WPCA
Ann Brown, P.E.	Supervising Engineer, WPCA
Robert Pudelka	Plant Supervisor, WPCA
Steve Pietrzyk	Collection System Supervisor, WPCA

1. **Call to Order and Roll Call**– E. Kelly called the meeting to order at 4:30PM and announced the attendees as listed above.
2. **Approval of November 15, 2023 Meeting Minutes**- E. Kelly made a motion to approve the minutes of the November 15, 2023 Technical Committee Meeting. The motion was seconded by S. Bagwin. Motion carried 3-0-0.
3. **Public Comments** – None
4. **Discussion and approval of a Bid Waiver for Siemens to Perform the Arc Flash Study in accordance with their Proposal in the amount of \$79,600.0 with data verification if needed for a daily rate of \$2,500.00** – A. Brown presented a proposal from Siemens to complete the Arc Flash study for an amount of \$79,600. She indicated that the scope of work in Siemens' proposal was the same as the scope that Tighe & Bond had bid on. WPCA has not expended the funds for Tighe & Bond since they have not done the study. Siemens had done the preventive maintenance on the equipment and gathered the data from the equipment for the Arc Flash study. Siemens will need to do a site visit to verify that the data and equipment has not changed. M. Nesin asked for clarification on the scope of work. Bill Brink gave a brief history of the project and how everyone at Tighe & Bond originally associated with the project was no longer with the company. He felt that Siemens' proposal was reasonable, and Siemens was qualified to perform an Arc Flash study. The Committee was asked to approve a bid waiver to award the project to Siemens. WPCA will terminate the contract with Tighe & Bond and enter into a contract with Siemens to complete the work. The Committee agreed and will recommend approval to the full Board.
5. **Discussion on Collection System** – S. Pietrzyk presented the Monthly Pump Station and Collection Activities, which is attached and made part of these minutes. S. Pietrzyk explained that he has several equipment trials ongoing. These include a wet well wizard which breaks down fats, oils and grease in a wet well and a SmartCover manhole cover which provides real-time data on sewer flows and alarms indicating possible backups or blockages needing attention.
6. **Discussion on Plant Operations** – R. Pudelka reviewed the Monthly Operating Report and Equipment Update with the Committee, which is attached and made part of these minutes. R. Pudelka explained that there is a problem with algae and bacteria growth in the diesel fuel for the generators. The Cummins technician recommended that the fuel be removed and WPCA install an on-site fuel polishing system to

prevent this from occurring in the future. Rob indicated that the generators are not used often so the fuel in the tank may be about 3 years old.

7. **Update on Engineering Studies and Designs** – A. Brown provided the Committee with a Capital Projects Update including engineering studies and designs, which is attached and made part of these minutes. A. Brown provided an update on the Perna Lane project indicating that the bid documents are being finalized and an advertisement date for the first week in January has been requested.
8. **Update on Construction Projects** – A. Brown provided the Committee with a Capital Projects Update including construction projects, which is attached and made part of these minutes. She presented photos of the construction of Sludge Degritting which are attached and made part of these minutes.
9. **Old Business** – None.
10. **New Business** –None.

There being no further issues to discuss, E. Kelly made a motion to adjourn the meeting, seconded by S. Bagwin; motion carried 3-0-0. The meeting adjourned at 5:22pm.

## Monthly Activities (11/14/23 to 12/11/23)

### Collection and Pump Station Division

#### Overview of Pump Station and Gravity Collection Systems:

1. Pump station inspections for 22-sanitary sewer and 4-stormwater stations (124)
2. Pump station call-out activities (12)
3. Manhole Inspections (249)
4. Gravity line service calls investigated (8)
5. Private lateral investigations and repairs in City ROW (1)
6. Sewer line repair (0)
7. Manhole repair(s) (11)
8. CCTV sanitary sewer lines (0 LF)
9. Sewer line cleaning (2.12 miles)

#### Pump Stations:

1. Performed monthly landscape maintenance activities at pump stations.
2. Exercised portable generators.
3. Performed electrical preventative maintenance inspections at various pump stations.
4. WPCA staff installed a wet well wizard at Bonner pump station to determine the effectiveness in limiting grease build-up in the wet well. This equipment is being loaned to WPCA for a 30 day trial period.
5. WPCA staff worked with Cook in vacuuming and removing grease from the wet well at Alvord Lane pump station.

#### Collection System:

1. Crew jetted lines on Edice RD.; Meadow Park Ave., Ayers DR., Nichols Ave., Woodside ST., Main ST., Myano LN., George ST., Charles ST., Lewis RD., Hartswood RD., Malvern RD., Bradley PL., and an easement that is parallel and East of High Ridge RD.
2. Crew installed the smartcap monitoring system to an existing manhole cover. This equipment is being loaned to WPCA for a 30 day trial period to determine the effectiveness in monitoring wastewater level elevation changes that may occur through a sewer line segment.

#### Miscellaneous:

1. Continue to work with CDMSmith on the GIS upgrade project.
2. Provided sanitary sewer plan sheet information to various civil engineers and/or contractors working on City development projects.

#### Overview of Regulatory Compliance:

1. Initial building permit reviews (11)
2. Re-review of building permit applications (47)
3. Sanitary sewer tie-in plan reviews (5)
4. Zoning permit application reviews (0)
5. Initial Food Service Establishment (FSEs) Inspections (6)
6. FSE Follow-up Inspections (13)
7. Notice of violations (NOVs) Issued (4)
8. CTDEEP General Permit plan reviews or applications (4)

**Work performed by outside contractors:**

1. Vitti Construction replaced eight (8) manhole frames and covers at Sselect ST. and Southfield Ave., and Greenwich Ave. and Pulaski ST.
2. Cavalier replaced three (3) manhole frames and covers on Courtland Ave.
3. Northeast Generator brought in a portable generator for use at Greenwich Ave. pump station. Standby generator needs to be repaired.
4. Vitti Construction completed a private lateral repair in the City ROW at 1023 Hope ST.
5. Cook vacuumed and removed grease from the wet well at Alvord Lane pump station.



# December 2023 TECHNICAL COMMITTEE REPORT

Monthly Operating Report data:	November Results			Permit Limit
	This month (Nov)	Last month (Oct)	Historical (Nov) Monthly AVG	
Q (FLOW) DAILY AVG MGD	15.7	17.9	15.3	24 MGD DESIGN AVG
Q MAXIMUM DAILY AVG MGD	20.7	28.4	18.5	58 MGD MAX AVG
BOD INFLUENT AVG MG/L	263	295	249	
BOD INFLUENT AVG LBS/D	34,437	44,039		
BOD EFFLUENT AVG MG/L	4	3	3	
BOD EFFLUENT MAX MG/L	6	5		20 mg/L
BOD REMOVAL %	98.5	98.7	98.7	85%
TSS INFLUENT AVG MG/L	430	358	354	
TSS INFLUENT AVG LBS/D	56,303	53,444		
TSS EFFLUENT AVG MG/L	7	7	9	
TSS EFFLUENT MAX MG/L	12	10		20 MG/l
TSS REMOVAL %	97.6	97.4	97.2	85%
TOTAL N INFLUENT AVG MG/L	38.5	32.1	36.1	
TOTAL N INFLUENT AVG LBS/D	5041 *	4792	4460	
TOTAL N EFFLUENT AVG MG/L	2.20	2.07	3.3	
TOTAL N EFFLUENT AVG LBS/D	294	317	423	926 LBS/D
N REMOVAL %	94.3	93.6	90.5	
TOTAL P INFLUENT AVG MG/L	5.3	4.88	5.11	
TOTAL P EFFLUENT AVG MG/L	0.86	0.74	0.78	
P REMOVAL %	83.8	84.8	83.8	
UV EXCEEDANCES <30 mJ/cm2	0	0		

\* Historical high for month of December

## Plant Equipment Update

Secondary Clarifier #4	Returned to service on 11/17/23 after rebalancing center well/rake arms
TWAS Pump	New VFD installed
BFP 1 -3 Feed Pumps	New VFDs (3) Installed
Primary Building RTU	New burner ordered
Main Generator	Reevaluation fo Fuel system and spare fuel pump in stock. Block Heater needs replacement Diesel Fuel replacement
Godwin Pump	New EGR valve
Wilo Mixer	Needs Motor rebuilt
6" & 3" Submersibles	New Cord & Thermal overloads
Admin Heating Syste	Chemical Flushing of heating system



**UPDATE OF CAPITAL PROJECTS  
TECHNICAL COMMITTEE MEETING  
December 13, 2023**

**ENGINEERING STUDIES AND DESIGNS:**

**1. Infiltration Inflow Study**

The contractor has completed the pipe lining. He will move to the manhole repairs next.

**2. Sludge Management Plan**

Hazen has begun working on the fermentation study.

**3. Plant Water, Return Activated Sludge (RAS) and Waste Activated Sludge (WAS)**

Gannett Fleming is working on the preliminary and final design of this project. We have had meetings to review pump and piping layouts.

**4. RFQ for Evaluation of the Alvord Lane, Commerce Rd, and Saddle Rock Pump Stations**

Basis of Design Report for the pump station upgrades was completed. The Saddle Rock Road pump station is in the worst shape so the design and construction of that station will be the priority. The design of Alvord Lane and Commerce Rd will be done together and follow Saddle Roack Rd.

**5. RFP for the Design and Supply of a Standby Generator at Clay Hill Pump Station and West Avenue Pump Station**

Technical specifications are being finalized and will be reviewed by the collection system electrician. Bid documents should be completed by the end of this month.

**6. Perna Lane, Phase I Collection Sewers**

Tighe & Bond is finalizing the bid documents. We have a request to advertise the week of January 1<sup>st</sup>.

**7. Structural Evaluation of the Columns in the Sludge Dewatering Building**

Preparing bid documents for the repair.

**8. Bid for Design Build Standby Generator for the Greenwich Ave. Pump Station**

Preparing the bid documents to purchase and install a generator for Greenwich Ave Pump Station. The controls will be provided by the WPCA. Bid documents should be completed by the end of this month.

**9. RFQ for the Operation and Maintenance of Stamford WPCF Sludge Drying Facility and Transportation and Beneficial Use or Disposal of Biosolids**

Qualifications were received from two firms. The selection committee is reviewing the qualifications. The next step is to request proposals. Our contract with Synagro expires 3/3/24. We may need a contract extension until we have a firm in place.



## CONSTRUCTION PROJECTS:

### 1. **Electrical Preventive Maintenance / Arc Flash**

We received a proposal from Siemens for this work. The cost seems reasonable, and we are requesting approval for a bid waiver to move ahead with Siemens.

### 2. **Modular Office Trailers for Collection System Staff**

The trailers are in place. The power and cable for phone and internet is installed. The collection system staff has moved into the trailers. We are negotiating a cost with our contractor for the installation of a water line and sewer lateral to the trailers.

### 3. **Painting of Final Clarifiers # 1, 2 and 4**

Bonds have been submitted and are approved. Work will be scheduled for the spring when the weather is warmer.

### 4. **Repair of Storm Water Pumps #1 and 3 at Cummings Pump Station**

Awarded to New England Pump and Valve. Bonds and insurance have been approved. They have been out to the site to assess removal of the pumps. They will begin repairing one pump at a time.

### 5. **Sludge Degritting System Upgrade**

CH Nickerson is working on the following:

- Installed the 10" sludge pipe from jacking pit to Clarifier #1.
- Pressure test and grout pipe.
- Begin backfilling the jacking pit for Clarifier #1.
- Begin excavating the jacking pit for Clarifier #2.
- Baffles and weir in Clarifier #2.

### 6. **Repair/Replacement of approximately 175 LF of 12" Sewer on Edice Rd**

Vitti was awarded the bid. We are waiting for the approved bonds, insurance, and a contract to be signed so we can schedule a kickoff meeting.

## **PAYMENT/CHANGE ORDER LOG AS OF 10/10/2023**

Sludge Degritting System Upgrade (Contractor – CH Nickerson)

Original Value of the Contract = \$ 8,908,350.00

Total Approved CO Amount = \$ 0

Contract Sum to Date = \$ 8,908,350.00





























