



## TECHNICAL COMMITTEE MEETING MINUTES

Wednesday, August 16, 2023

4:30PM

Via VIDEO/TELECONFERENCE

### Attendees:

Merritt Nesin	Chairman, Technical Committee
Ed Kelly	Committee Member
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**– M. Nesin called the meeting to order at 4:30PM and announced the attendees as listed above.
2. **Approval of July 12, 2023 Meeting Minutes**- E. Kelly made a motion to approve the minutes of the July 12, 2023 Technical Committee Meeting; seconded by M. Nesin. Motion carried 2-0-0.
3. **Public Comments** - None
4. **Review and Approval of Amendment to Agreement with Gannet Fleming for the RAS/WAS/PW Improvements Design Fee and Scope of Services for Preliminary and Final Design in an amount not to exceed \$598,489** – A. Brown presented a proposal from Gannett Fleming for engineering design services for the next phase of the RAS/WAS/PW Improvements project. Gannet Fleming prepared a Basis of Design report, and this is the next phase of the project. The scope of services and fee proposal for preliminary and final design is not to exceed \$ 598,489. The Committee agreed to approve the proposal.
5. **Discussion on Collection System** – S. Pietrzyk provided a summary of the Monthly Pump Station and Collection Systems Activities, which is attached and made part of these minutes. S. Pietrzyk pointed out that a 12” cast iron sewer to Carter Drive pump station was replaced. This was a source of inflow into the system and reduced the volume of water into the pump station.
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 presented the results from the second polishing of the diesel fuel for the generator. The test results show the water and sediment in the fuel is reduced and all parameters tested are within acceptable specifications.
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.
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.
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 M. Nesin; motion carried 2-0-0. The meeting adjourned at 5:10pm.

## Monthly Activities (07/11/23 to 08/14/23)

### 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 (244)
2. Pump station call-out activities (38)
3. Manhole Inspections (226)
4. Gravity line service calls investigated (2)
5. Private lateral investigations and repairs in City ROW (0)
6. Sewer line repair (2)
7. Manhole repair(s) (9)
8. CCTV sanitary sewer lines (1,104 LF)
9. Sewer line cleaning (1.56 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. Crew completed the vacuum break installation on pump #1 at Cummings Pump Station.
5. Crew repaired ventilation fan at Cummings Pump Station.
6. Crew painted over graffiti at Cummings Pump Station gate structure.

#### Collection System:

1. Crew jetted lines on Edice RD.; Van Rensselaer Ave., Broad ST., Greyrock PL., High Ridge RD., Myano LN., Adams Ave.; East Main ST.; Lockwood Ave.; Norton Hill PL.; Seaton RD.; Elm ST.; Puluski ST.
2. Crew CCTV line segments at Cummings Park (MH-4694 to MH-4696); Broad ST. (MH-1850 to MH-1852, MH-1851 to MH-1850); High Ridge RD. (MH-8535 to MH-6020).

#### Training:

1. Training two (2) new mechanics in training (MITs) on pump station and collection system work related activities and use of the computer maintenance and management system (CMMS).

#### 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 (18)
2. Re-review of building permit applications (61)
3. Sanitary sewer tie-in plan reviews (6)
4. Zoning permit application reviews (0)
5. Initial Food Service Establishment (FSEs) Inspections (23)
6. FSE Follow-up Inspections (12)
7. Notice of violations (NOVs) Issued (2)
8. CTDEEP General Permit plan reviews or applications (4)

**Work performed by outside contractors:**

1. Vitti Construction replaced 12 LF of a deteriorated 12" CI sewer line with 12" SDR-35 pipe between MH-4336 and MH-4332 on Carter DR. to reduce inflow water sources from entering the gravity sanitary sewer and Carter DR. Pump Station systems.
2. Vitti Construction removed a copper ground bar that penetrated 6" pvc sewer line before repairing the line at 1047 High Ridge RD.
3. Cavaliere completed nine (9) manhole repairs at the following locations: Lockwood Ave. and Cove RD.; 26 Crane RD.; 128 ST. Charles Ave.; Pulaski and Greenwich Ave.



## August 2023 TECHNICAL COMMITTEE REPORT

Monthly Operating Report data:	July Results			
	This month (July)	Last month (June)	Historical July Monthly AVG	Permit Limit
Q (FLOW) DAILY AVG MGD	14.3	13.5	15.2	24 MGD DESIGN AVG
Q MAXIMUM DAILY AVG MGD	17.5	14.5	19.7	58 MGD MAX AVG
BOD INFLUENT AVG MG/L	301	313	236	
BOD INFLUENT AVG LBS/D	35,898	35,241		
BOD EFFLUENT AVG MG/L	2	2	2	
BOD EFFLUENT MAX MG/L	2	2		20 mg/L
BOD REMOVAL %	99.4	99.4	98.9	85%
TSS INFLUENT AVG MG/L	485	384	342	
TSS INFLUENT AVG LBS/D	57,842	43,235		
TSS EFFLUENT AVG MG/L	3	3	5	
TSS EFFLUENT MAX MG/L	6	6		20 MG/l
TSS REMOVAL %	99.2	99.1	98.4	85%
TOTAL N INFLUENT AVG MG/L	43.5 *	41.9	34.6	* highest July Avg
TOTAL N INFLUENT AVG LBS/D	5188 *	4718	4382	* highest July Avg
TOTAL N EFFLUENT AVG MG/L	2.05	1.97	2.45	
TOTAL N EFFLUENT AVG LBS/D	249	226	312	926 LBS/D
N REMOVAL %	95.3	95.3	92.8	
TOTAL P INFLUENT AVG MG/L	6.16	5.47	4.91	
TOTAL P EFFLUENT AVG MG/L	0.90	0.66	0.68	
P REMOVAL %	85.4	88	86.4	
UV EXCEEDANCES <30 mJ/cm2	0	0		

### Plant Equipment Update

BFP#1	Roller Shaft and belt replaced
BFP#2	(2) Drive motors ordered and installed
STP #2 VFD	Replacement VFD installed
FE North #2 Flowmeter	new controller installed
Secondary Clarifier #3	Drive torquing out, drop tank to inspect
Admin Elevator	Hydraulic inspection due, TKE to perform
Hydrocyclone #2	(2) Leaks repaired with fabricated pipe fittings
Primary Sludge Line #1	Leak repaired with new reducer fitting and gaskets
Primary Effluent Gate #4	Seized, will need to remove to service
Admin Heating	Plumbing lines need flushing, performed by Siemens



**UPDATE OF CAPITAL PROJECTS  
TECHNICAL COMMITTEE MEETING  
August 16, 2023**

**UPDATE ON ENGINEERING STUDIES AND DESIGNS:**

- 1. Infiltration Inflow Study**  
Contractor has been working in the Cove area with jetting and CCTV inspection of the sewers.
- 2. Sludge Management Plan**  
Hazen has been authorized and will be starting the Primary Sludge Fermentation Study.
- 3. Plant Water, Return Activated Sludge (RAS) and Waste Activated Sludge (WAS)**  
Gannett Fleming has submitted a Scope of Services and fee proposal which is on this meeting's agenda for approval. The estimate for Preliminary and Final Design Services is an amount not to exceed \$598,489.
- 4. RFQ for Evaluation of the Alvord Lane, Commerce Rd, and Saddle Rock Pump Stations**  
Basis of Design Report for the pump station upgrades is underway. We expect to have a report by the end of the summer.
- 5. RFP for the Design and Supply of a Standby Generator at Clay Hill Pump Station and West Avenue Pump Station**  
WPCA added West Avenue Pump Station to this project. Technical specifications are almost complete for purchasing to advertise for bids.
- 6. Perna Lane, Phase I Collection Sewers**  
Tighe & Bond completed traffic plans and submitted them to CTDOT. They received comments back from DOT which they are addressing. Once DOT approves, the bid documents can be finalized.
- 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.
- 9. Repair/Replacement of approximately 175 LF of 12" Sewer on Edice Rd**  
Bid documents have been prepared to repair/replace a 175LF section of 12" sanitary sewer on Edice Road that has a sag causing backups and surcharging.

**UPDATE ON CONSTRUCTION PROJECTS:**

- 1. Electrical Preventive Maintenance / Arc Flash**  
In discussion with Siemens regarding the information still needed for the arc flash study.



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

The trailers are in place. The cable for phone and internet is installed. Electrician to finalize the power to move into the building.

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

Documentation from MacKenzie Painting is with purchasing. Waiting for approval of all the documents to schedule a kickoff meeting and issue a Notice to Proceed.

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

Awarded to New England Pump and Valve. Waiting for approval of all the documents to schedule a kickoff meeting and issue a Notice to Proceed.

**5. Sludge Degritting System Upgrade**

CH Nickerson is working on the following:

- Soft dig for remaining pile locations and existing underground conduits.
- Power washed existing baffles/weirs and existing trough walls.
- Started to remove and replace existing aluminum weirs and baffles with new FRP baffles and weirs.
- Removed existing odor control foundations.
- ELM -
  - Continued to relocate odor control conduits and pull new wire over the bypass structure.

Expected activities for following week:

- Remove remaining existing utilities in work area.
- Continue to install new FRP weirs and baffles inside clarifier #1
- MD&B-
  - shoring pile installation at clarifier #1
- ELM-
  - Odor control system shut down for final tie-ins for bypass.

**PAYMENT/CHANGE ORDER LOG AS OF 8/16/2023**

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