



TECHNICAL COMMITTEE MEETING MINUTES

Wednesday, October 11, 2023

4:30PM

Via VIDEO/TELECONFERENCE

Attendees:

Merritt Nesin	Chairman, Technical Committee
Ed Kelly	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**– M. Nesin called the meeting to order at 4:30PM and announced the attendees as listed above.
2. **Approval of September 13, 2023 Meeting Minutes**- E. Kelly made a motion to approve the minutes of the September 13, 2023 Technical Committee Meeting. M Nesin asked for clarification on the acute toxicity testing that was presented at the last meeting; the motion was seconded by M. Nesin. Motion carried 2-0-0.
3. **Public Comments** - None
4. **Discussion on Collection System** – S. Pietrzyk presented the Monthly Pump Station and Collection Activities, which is attached and made part of these minutes. M. Nesin asked if there were any collection system issues with the 9/29 rain event. S. Pietrzyk explained that he had two crews out all night to cover the areas and pump stations with high level alarms.
5. **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 made the committee aware that the WPCA has a new preventive maintenance software, MVP One. The operators and mechanics seem to like the new system. Rob stated there were two exceedances in the last month. The first happened on 9/21 and may have been caused by a dead bird or animal which got caught in the UV channel. The UV system was operational at all times and there were no mechanical or operational problems. The second exceedance happened on 10/10 caused by a pipe failure when CH Nickerson excavated an existing 18” overflow pipe to make a bypass connection as part of the Sludge Degritting project. The pipe appeared to have deteriorated and began to leak when the soil around the pipe was disturbed.
6. **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 Tighe & Bond submitted plans to CTDOT. Once approval is received from DOT, the bid documents can be finalized. The pump station layout on Perna Lane needs to be finalized so easements can be obtained from the property owner.
7. **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.

8. **Old Business** – E. Kelly asked for a briefing on the Board of Reps (BOR) Operations Committee meeting attended by A. Brown. The agenda item was a discussion on providing residents of North Stamford access to public city water and sanitary sewer system. A Brown explained that some BOR members were interested in bringing water and sewer to properties north of the Merritt Parkway. She told the BOR that Aquarion provides water to the City of Stamford. There is an area identified as the “Sewer Avoidance Area” which is defined by City Ordinance where sanitary sewers are not permitted. This area is comprised of properties with larger sized lots that could have reserve septic systems. The BOR wanted to review this further.

E. Kelly asked about an outstanding Sludge Dryer Air Permit Modification. He recalled the permit modification was prepared for his signature but does not remember if it was signed and submitted to CTDEEP. B. Brink said he would check into this.

M. Nesin requested a copy of Hazen’s Sludge Management Report. A copy will be provided to all the Technical Committee members.

9. **New Business** – M. Nesin announced his resignation as Chairman of the WPCA Technical Committee.

There being no further issues to discuss, M. Nesin made a motion to adjourn the meeting, seconded by E. Kelly; motion carried 2-0-0. The meeting adjourned at 5:10pm.

Monthly Activities (08/15/23 to 10/9/23)

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 (205)
2. Pump station call-out activities (15)
3. Manhole Inspections (453)
4. Gravity line service calls investigated (12)
5. Private lateral investigations and repairs in City ROW (0)
6. Sewer line repair (2)
7. Manhole repair(s) (11)
8. CCTV sanitary sewer lines (623 LF)
9. Sewer line cleaning (4.45 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 monitored and operated sanitary sewer and stormwater pump stations during the 9-29-23 rain event and following this rain event throughout the weekend.
5. Crew commenced with post storm cleanup activities at Cove Island, i.e., commutator room, wet well chamber room, etc.
6. Crew repaired commutator and put back into service following the 9/29/23 storm event.

Collection System:

1. Crew jetted lines on Edice RD.; Van Rensselaer Ave., West Broad ST., Ralsey RD. South, Sagamore RD., Sagamore LN., Ocean DR. West, Stamford Ave., Fairview Ave., East Main ST.; Sea Beach DR., Ocean DR. E., Westcott RD., Ralph ST., Whitaker ST., Downs Ave., Mitchell ST., Wallace ST., Nelson ST., Mariners LN., Lindstrom RD., Quintard Terr., Myano LN., Unity RD.
2. Crew CCTV line segments: Brightside Drive (MH-6901 - MH-6907), Ocean Drive East (MH-6773 – MH-6771), and Sea Beach Drive (MH-6771 – MH-6823).

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 (19)
2. Re-review of building permit applications (71)
3. Sanitary sewer tie-in plan reviews (2)
4. Zoning permit application reviews (1)
5. Initial Food Service Establishment (FSEs) Inspections (16)
6. FSE Follow-up Inspections (16)
7. Notice of violations (NOVs) Issued (4)
8. CTDEEP General Permit plan reviews or applications (6)

Work performed by outside contractors:

1. Vitti Construction replaced 6 LF of 8" clay tile sewer line on West Broad ST. and modified receiving manhole trough to improve wastewater conveyance;
2. Northeast Generator completed minor preventative maintenance on pump station standby generators and portable generators between 8/21 and 8/25.
3. Vitti Construction repaired 18 LF of 10" Ductile Iron force main pipe near 315 Ocean DR. West. This force main serves the Saddle Rock Pump Station on 8/24.
4. Onevac assisted WPCA staff in vacuuming wet well at Timber Lane Pump Station on 8/23.
5. Onevac assisted WPCA staff during bypass vacuuming and hauling of Saddle Rock Pump Station to assist Vitti in completing the force main pipe repair on 8/24.
6. Eversource replaced a transformer at Dyke Lane Pump Station on 8/24.
7. Vitti Construction replaced two (2) manhole frames and covers at 45 Greenfield RD. and intersection of Tower Ave. and Clearview Ave.
8. Cavalier replaced nine (14) manhole frames and covers for upcoming City milling and paving work at the following locations: #52 Ocean DR. E., #98 Ocean DR. E., #10 Hobson St., #67 Hobson ST., #140 Hobson ST. (composite watertight manhole cover), #11 Sea Beach DR., #49 Sea Beach DR., #75 Sea Beach DR. (watertight manhole cover), #100 Sea Beach DR. (watertight manhole cover), and (5) MHs at the intersection of Tresser Blvd and Washington Blvd.



October 2023 TECHNICAL COMMITTEE REPORT

Monthly Operating Report data:	September Results			Permit Limit
	This month (Sept)	Last month (Aug)	Historical Sept. Monthly AVG	
Q (FLOW) DAILY AVG MGD	16.4	14.3	15.1	24 MGD DESIGN AVG
Q MAXIMUM DAILY AVG MGD	38.3	18.5	22.3	58 MGD MAX AVG
BOD INFLUENT AVG MG/L	222	296	243	
BOD INFLUENT AVG LBS/D	30,364	35,302		
BOD EFFLUENT AVG MG/L	2	2	3	
BOD EFFLUENT MAX MG/L	5	4		20 mg/L
BOD REMOVAL %	98.8	99.1	99	85%
TSS INFLUENT AVG MG/L	256	373	357	
TSS INFLUENT AVG LBS/D	35,015	44,485		
TSS EFFLUENT AVG MG/L	5	4	8	
TSS EFFLUENT MAX MG/L	13	6		20 MG/l
TSS REMOVAL %	97.9	98.7	97.3	85%
TOTAL N INFLUENT AVG MG/L	34.9	39.4	36.1	
TOTAL N INFLUENT AVG LBS/D	4773	4699	4465	
TOTAL N EFFLUENT AVG MG/L	1.97	2.00	2.65	
TOTAL N EFFLUENT AVG LBS/D	259	237	354	926 LBS/D
N REMOVAL %	94.4	94.9	92.2	
TOTAL P INFLUENT AVG MG/L	4.28	5.08	5.18	
TOTAL P EFFLUENT AVG MG/L	1.29	1.85	0.68	
P REMOVAL %	69.9	63.6	85.5	
UV EXCEEDANCES <30 mJ/cm2	0	0		Entero daily grab

Plant Equipment Update

BFP #3
 TWAS Pump
 BFP 1 -3 Feed Pumps
 Primary Clarifier #1

New VFD installed
 VFD ordered, need to install
 Ordering new VFDs
 Repair to rake assembly tension rods and welding .



**UPDATE OF CAPITAL PROJECTS
TECHNICAL COMMITTEE MEETING
October 11, 2023**

UPDATE ON ENGINEERING STUDIES AND DESIGNS:

1. Infiltration Inflow Study

The next step is for the Contractor to line the pipe which was cleaned. He has ordered the liner. We are waiting for a schedule for this work.

2. Sludge Management Plan

A kickoff meeting with Hazen is scheduled for this week.

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.

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. WPCA is reviewing this report.

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. Bid documents are being finalized and will be reviewed by the collection system electrician.

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. Tighe & Bond are finalizing the plans and will resubmit to DOT for approval. Once DOT approves, the project can be advertised for bids. Working on easements for the Perna Lane pump station.

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

RFQ for operation of the sludge dryer was advertised on Thursday, 10/4. We had one firm tour the plant last week and received interest from another. Our contract with Synagro expires 3/3/24.



UPDATE ON CONSTRUCTION PROJECTS:

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

In discussion with Siemens. Asked Siemens for a cost for Siemens to do the arc flash study. Waiting for the proposal.

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.

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

We are waiting for bonds from MacKenzie Painting. Once submitted and approved, a kickoff meeting will be scheduled and a Notice to Proceed issued.

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:

- Excavation/Installation of lagging for jacking pit for Clarifier #1.
- Install upper and lower steel waler.
- Begin relocation of 18" thickener overflow bypass

Expected activities for following week:

- Demo of sludge pump #3
- Excavation/installation of lagging for jacking pit for Clarifier #1
- Relocation of 18" thickener overflow bypass

6. **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. Bids are due on 10/26.

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