



TECHNICAL COMMITTEE MEETING MINUTES

Thursday March 14, 2024

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
Steve Pietrzyk	Collection System Supervisor, WPCA

1. Call to Order and Roll Call – E. Kelly called the meeting to order at 4:31PM and announced the attendees as listed above.
2. Approval of February 21, 2024 Meeting Minutes - E. Kelly made a motion to approve the minutes of the February 21, 2024 Technical Committee Meeting. The motion was seconded by S. Bagwin. Motion carried 3-0-0.
3. Public Comments – None.
4. Discussion and approval of Tighe & Bond's proposal for Construction Phase Engineering Services for Perna Lane Sewer Extension in an amount not to exceed \$528,000 – A. Brown presented a proposal and Amendment #2 from Tighe & Bond for construction services for the Perna Lane project. Ann explained that the cost included a full-time inspector for the duration of the project which is from April 2024 to August 2025. The Technical Committee agreed to recommend approval of the proposal and Amendment #2 to the Full Board.
5. Discussion and approval of Tighe & Bond's proposal for Design and Bidding Services for Saddle Rock Pump Station in an amount not to exceed \$62,450 – A. Brown presented a proposal for final design and bidding phase services for Saddle Rock Pump Station. This proposal will be Amendment #1 to the agreement with Tighe & Bond for the Pump Station Upgrades of Saddle Rock, Commerce and Alvord Lane Pump Stations. The Saddle Rock Road pump station is in the worst shape of the three so, the design and construction of that station is the priority. The Technical Committee agreed to recommend approval to the Full Board.
6. Discussion on Collection System – S. Pietrzyk presented the Monthly Pump Station and Collection Activities, which is attached and made part of these minutes.
7. Discussion on Plant Operations – B. Brink presented the Monthly Operating Report and Equipment Update to the Committee, which is attached and made part of these minutes. Bill stated that the plant has recovered from the high flows experienced in January. The plant performance is good.
8. 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.
9. 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. Ann told the committee that Perna Lane has been awarded to Grasso Construction. They are in the submittal phase and a preconstruction meeting is being scheduled.
10. Old Business – None.
11. 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 4:57pm.

Monthly Activities (02/20/24 to 03/12/24)

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 (131)
2. Pump station call-out activities (10)
3. Manhole Inspections (302)
4. Gravity line service calls investigated (3)
5. Private lateral investigations and repairs in City ROW (2)
6. Sewer line repair (0)
7. Manhole repair(s) (7)
8. CCTV sanitary sewer lines (177 LF)
9. Sewer line cleaning (2.73 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. Crews installed an aeration unit at Carriage DR. to determine the effectiveness in limiting grease build-up in the wet well.
5. Crews prepared Cummings pump station for pump #3 to be removed by New England Pump and Valve.

Collection System:

1. Crew jetted lines on Edice RD.; Westcott RD., Woods End RD., Cody DR., Silver Hill LN., Fara DR., Barrett Ave. Autumn Lane Easement, and sections of Myano LN., Market ST., Ludlow ST., Shippan Ave. and Westcott RD.

Miscellaneous:

1. 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 (12)
2. Re-review of building permit applications (47)
3. Sanitary sewer tie-in plan reviews (3)
4. Zoning permit application reviews (6)
5. Initial Food Service Establishment (FSEs) Inspections (0)
6. FSE Follow-up Inspections (8)
7. Notice of violations (NOVs) Issued (3)
8. CTDEEP General Permit plan reviews or applications (14)

Work performed by outside contractors:

1. Vitti Construction repaired seven (7) manhole frames and covers at 15 Cody DR., 200 and 208 Stamford Ave., 49 Woods End RD., 701, 715, and 735 Stillwater RD.,
2. Vitti Construction repaired two (2) laterals in the City ROW at 28 Van Buskirk Ave. and 26 Market ST.
3. Cook vacuumed grease from Alvord Lane pump station's wet well.
4. Onevac CCTV and located damaged private lateral in City ROW for 28 Van Buskirk Ave.
5. New England Pump and Valve began disassembling pump #3 at Cummings pump station.



March 2024 TECHNICAL COMMITTEE REPORT

Monthly Operating Report data:	February Results			Permit or Design Limit	Percent of Design Capacity (Jan)
	This month (Feb)	Last month (Jan)	Historical (Feb) Monthly AVG		
Q (FLOW) DAILY AVG MGD	16.7	21.9	16.8	24	70%
Q MAXIMUM DAILY AVG MGD	19.9	35.1	21.3	58	
BOD INFLUENT AVG MG/L	197	174	211		
BOD INFLUENT AVG LBS/D	27,438	31,780		41,233	67%
BOD PRIMARY EFFLUENT LBS/D	17,966	21,370		21,797	82%
BOD EFFLUENT AVG MG/L	3	4	5	20	
BOD REMOVAL %	98.5	97.5	97.5	85	
TSS INFLUENT AVG MG/L	227	196	269		
TSS INFLUENT AVG LBS/D	31,616	35,799		61,849	51%
TSS PRIMARY EFFLUENT LBS/D	13,928	21,187		24,219	57%
TSS EFFLUENT AVG MG/L	7	9	12	20	
TSS REMOVAL %	96.9	94.6	94.7	85%	
TOTAL N INFLUENT AVG MG/L	34.6	27.3	32.2		
TOTAL N INFLUENT AVG LBS/D	4,819	4,986	4,392		
TOTAL N EFFLUENT AVG MG/L	2.19	1.81	3.45		
TOTAL N EFFLUENT AVG LBS/D	305	335	486	926 LBS/D	
N REMOVAL %	93.7	93.3	88.3		
TOTAL P INFLUENT AVG MG/L	4.59	3.55	4.54		
TOTAL P EFFLUENT AVG MG/L	2.16	0.70	0.75		
P REMOVAL %	52.9	80.3	82.9		
UV EXCEEDANCES <30 mJ/cm2	0	0			

Plant Equipment Update

RAS Pump #2

Repaired pump assembly at Metal Industries and reinstalled. Not pumping at capacity – may need new impeller.

Primary Building RTU

New burner ordered - back ordered

BFP PLCs

Knapp to provide and program replacement and spare

Main Generator

Diesel Fuel filtration system needed



**UPDATE OF CAPITAL PROJECTS
TECHNICAL COMMITTEE MEETING
March 14, 2024**

ENGINEERING STUDIES AND DESIGNS:

1. Final Settling Tank No. 3 Upgrade

Design plans and specifications are being finalized for bidding the replacement of equipment in Final Clarifier No.3. The advertisement date is scheduled for 3/28/24.

2. Sludge Management Plan

Hazen has begun working on the fermentation study. They are waiting for both primary clarifiers to be put back in operation to continue. This should be some time in April.

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. Tighe & Bond submitted a proposal for the design and bidding phase of Saddle Rock PS which is on the agenda for approval.

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. A bid date has been requested.

6. Structural Evaluation of the Columns in the Sludge Dewatering Building

Preparing bid documents for the repair.

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

Preparing the bid documents for a standby generator for Greenwich Ave Pump Station. The controls will be provided by the WPCA. A bid date has been requested.

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

A Request for Proposals was sent to qualified firms. Addendum No.1 was posted. Proposals are due back on March 28, 2024.



CONSTRUCTION PROJECTS:

1. Perna Lane, Phase I Collection Sewers

The project has been awarded to the low bidder, Grasso Construction. The bid amount was \$8,263,194.41. The Contractor needs to submit insurance, bonds, and a schedule. A preconstruction meeting is scheduled for the end of March.

2. Electrical Preventive Maintenance / Arc Flash

Siemens began the review of the data collected for the Arc Flash study. Their representative is onsite.

3. Infiltration/Inflow Sewer Rehab

The contractor started lateral grouting last week. They will continue with this operation working at:

- Ocean Drive W. and Saddle Rock Road.
- Carter Drive and Tupper Drive.

4. 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.

5. Painting of Final Clarifiers # 1, 2 and 4

A kickoff meeting was held. Work will begin May 2024.

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

New England Pump and Valve have removed Pump #3 from the pump station to take to their shop for repairs. Once completed, they will install and repair Pump #1.

7. Sludge Degritting System Upgrade

CH Nickerson is working on the following:

- Backfilled jacking pit #1 up to 18" overflow pipe.
- Install 18" HDPE overflow pipe in jacking pit #1.
- Install 10" DIP in jacking pit #2.
- Install 8" sludge piping in pumping station basement.
- Mix and place 2" grout topper over receiving pit concrete.
- Continue with baffles on south side of Clarifier #2.
- Backfill jacking pit #1.
- Excavate and lag Phase 3 center pit over 42" force main.

8. Repair/Replacement of approximately 175 LF of 12" Sewer on Edice Rd

Vitti was awarded the bid. A kickoff meeting was held on 1/16. Vitti will be starting work after the winter season, so that there are fewer work stoppages due to periodic inclement weather.

PAYMENT/CHANGE ORDER LOG AS OF 2/20/2024

Sludge Degritting System Upgrade (Contractor – CH Nickerson)

Original Value of the Contract = \$ 9,165,000.00

Total Approved CO Amount = \$ 0

Contract Sum to Date = \$ 9,165,000.00