



TECHNICAL COMMITTEE MEETING MINUTES

Wednesday
September 11, 2024
4:30PM

Via VIDEO/TELECONFERENCE

Attendees:

Ed Kelly	Acting Chairman, Technical Committee
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 4:30 PM and announced the attendees as listed above.
2. **Approval of August 14, 2024 Meeting Minutes** - E. Kelly made a motion to approve the minutes of the August 14, 2024 Technical Committee Meeting. The motion was seconded by S. Bagwin. Motion carried 2-0-0.
3. **Public Comments** - None
4. **Discussion and Approval of Bid Waiver for Konecranes to replace in kind a manual hoist at Dyke Lane Pump Station with an electric wire rope hoist and motorized trolley for an amount not to exceed \$63,385.11** - A. Brown explained that the Board previously approved a bid waiver for this work in May 2024. The quote given for that order was valid for 30 days. WPCA failed to issue a Purchase Order to Konecranes within the order date. Konecranes supplied a new quote with an end date of December 2024, so WPCA can get the necessary approvals and issue a PO. The cost of the equipment was increased by \$920. The approval is for a Bid Waiver for Konecranes in the amount of \$ 63,385.11. This will be presented to the full board for approval at the September meeting.
5. **Discussion on Collection System** – S. Pietrzyk presented the Monthly Pump Station and Collection Activities, which is attached and made part of these minutes. Steve pointed out that high flows are occurring in segments of sanitary sewer on Virgil Street. He will be adding Virgil Street to the next list of sewers that will be part of the ongoing I/I project.
6. **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. He indicated that the plant saw high flows on August 18th due to the storm event. Painting of Final Clarifier No. 4 will be complete. The foreman would like to have this clarifier back in service before the next storm. We will try to have it back online next week.
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. Ann gave an update on Perna Lane Sewer Extension Project saying that the Contractor is completing Somerset Lane. They have encountered rock that must be removed and has slowed down their progress. They are also working on High Ridge Road north of the Merritt Parkway. S. Bagwin stated that when traffic was detoured to the local roads, it flowed much better on High Ridge Road. A. Brown stated the project did not intend to send traffic into the residential neighborhood. She will review the issue with the City's Traffic Engineer to see if there is anything that can be safely done.

9. **Old Business** - None

10. **New Business** – E. Kelly advised the Committee that there is a candidate for the open WPCA Board position of engineer. He will be meeting with him on Friday.

There being no further issues to discuss, E. Kelly made a motion to adjourn the meeting, seconded by S. Bagwin; motion carried 2-0-0. The meeting adjourned at 4:57 pm.

Monthly Activities (08/13/24 to 09/09/24)

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 (168)
2. Pump station call-out activities (33)
3. Manhole Inspections (268)
4. Gravity line service calls investigated (5)
5. Private lateral investigations and repairs in City ROW (1)
6. Sewer line repair (0)
7. Manhole repair(s) (0)
8. CCTV sanitary sewer lines (634 LF)
9. Sewer line cleaning (3.85 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 mechanics removed pump #3 from Cove Island due to a seal fault. GA Fleet Associates have the pump #3 to determine repair needs. Additionally, a spare pump, that appears slightly damaged, is being evaluated by GA Fleet Associates for Cove Island, as well.
5. WPCA mechanics are providing and monitoring auxiliary power supply to Barry PL. pump station until new permanent power can be installed.

Collection System:

1. Crew jetted lines on Van Rensselaer Ave., Stillwater Ave., Putter DR., Tree LN., Old Colony RD., Prudence DR., Minivale RD., Oakdale RD., West Broad ST., Myano LN., Virgil ST., Willowbrook Ave., and Hobson ST.
2. Crews CCTV sewer line on Virgil ST. from MH-3949 to MH-4010 (approximately 634 LF).

Miscellaneous:

1. Provided sanitary sewer plan sheet information to various civil engineers and/or contractors working on City development projects.
2. Completed plan reviews for utility projects in close proximity of WPCA's infrastructure and provided summary comments.

Overview of Regulatory Compliance:

1. Initial building permit reviews (18)
2. Re-review of building permit applications (43)
3. Sanitary sewer tie-in plan reviews (10)
4. Zoning permit application reviews (0)
5. Initial Food Service Establishment (FSEs) Inspections (5)
6. FSE Follow-up Inspections (21)
7. Notice of violations (NOVs) Issued (0)
8. CTDEEP General Permit plan reviews or applications (0)

Work performed by outside contractors:

1. Vitti Construction repaired a private lateral in the City ROW at 37 Penzance RD.
2. GA Fleet Associates are in the process of evaluating repair needs for pump #3, as well as, a slightly damaged spare pump for Cove Island.



September 2024 TECHNICAL COMMITTEE REPORT

Monthly Operating Report data:	August Results		Historical (Aug) Monthly AVG	Permit or Design Limit	Percent of Design Capacity (Aug)
	This month (Aug)	Last month (Jul)			
Q (FLOW) DAILY AVG MGD	18.6	14.5	14.5	24	78%
Q MAXIMUM DAILY AVG MGD	42.0	22.7	18.9	58	
BOD INFLUENT AVG MG/L	216	273	238		
BOD INFLUENT AVG LBS/D	33,507	33,014		41,233	81%
BOD PRIMARY EFFLUENT LBS/D	16,598	16,087		21,797	76%
BOD EFFLUENT AVG MG/L	3	3	2	20	
BOD REMOVAL %	98.6	98.9	99.0	85	
TSS INFLUENT AVG MG/L	268	347	346		
TSS INFLUENT AVG LBS/D	41,699	41,963		61,849	67%
TSS PRIMARY EFFLUENT LBS/D	13,186	11,730		24,219	54%
TSS EFFLUENT AVG MG/L	8	6	5	20	
TSS REMOVAL %	95.7	97.9	98.2	85%	
TOTAL N INFLUENT AVG MG/L	32.9	42.1	34.9		
TOTAL N INFLUENT AVG LBS/D	4,987	4,890	4,203		
TOTAL N EFFLUENT AVG MG/L	2.47	2.19	2.55		
TOTAL N EFFLUENT AVG LBS/D	383	265	318	926 LBS/D	
N REMOVAL %	92.5	94.8	92.3		
TOTAL P INFLUENT AVG MG/L	4.31	6.13	4.95		
TOTAL P EFFLUENT AVG MG/L	1.21	2.02	0.72		
P REMOVAL %	82.7	70.2	85.5		
UV EXCEEDANCES <30 mJ/cm2	0	0			

Plant Equipment Update

Primary Clarifier No. 1 Equipment in PC No. 1 is out of service. New equipment installation awaiting approval by the manufacturer. Also waiting for cost and schedule to replace Primary Clarifier influent pipe.

Final Clarifier No. 4 Currently out of service as it is being painted.



**UPDATE OF CAPITAL PROJECTS
TECHNICAL COMMITTEE MEETING
September 11, 2024**

ENGINEERING STUDIES AND DESIGNS:

- 1. Sludge Management Plan/Fermentation Study**
Hazen is waiting for both primary clarifiers to be put back in operation to continue working on the fermentation study.
- 2. Plant Water, Return Activated Sludge (RAS) and Waste Activated Sludge (WAS)**
Gannett Fleming has submitted the 50% review set of plans and specifications. Documents are being reviewed by WPCA.
- 3. RFQ for Evaluation of the Alvord Lane, Commerce Rd, and Saddle Rock Pump Stations**
Tighe & Bond has submitted the 90% design review plans for Saddle Rock PS. Documents are being reviewed by WPCA.
- 4. RFP for the Design and Supply of a Standby Generator at Clay Hill Pump Station and West Avenue Pump Station**
Technical specifications are being prepared. Once complete an advertising date will be requested.
- 5. Structural Evaluation of the Columns in the Sludge Dewatering Building**
Preparing bid documents for the repair.
- 6. Bid for Design Build Standby Generator for the Greenwich Ave. Pump Station**
Project is out for bids. Bids are due October 3rd.
- 7. RFQ for the Operation and Maintenance of Stamford WPCF Sludge Drying Facility and Transportation and Beneficial Use or Disposal of Biosolids**
A new 5-year contract with Synagro has been fully executed. The start date was September 4, 2024.

CONSTRUCTION PROJECTS:

- 1. Perna Lane, Phase I Collection Sewers**
Grasso has completed the sewer installation on Perna Lane and moved on to Somerset Lane. They have also begun installation on High Ridge Road beginning at Turn of River. They have installed about 1700 LF of sewer on High Ridge Road. On Somerset Lane, they are still encountering rock which must be removed. They have about 200 LF left on Somerset and should be done by the end of next week. They will then move to Dzamba and Hampton. Approximately 3200 LF of gravity sewer has been installed.
- 2. Electrical Preventive Maintenance / Arc Flash**
Siemens has finished the verification of the data collected previously. They had a few extra days of data verification than anticipated. Siemens has submitted an additional cost for verifying the previous data. We are reviewing the days they indicate for approval. Once approved, they will complete the ARC Flash Study.
- 3. Infiltration/Inflow Sewer Rehab**
The contractor has completed the lateral grouting in the areas of:
 - Ocean Drive W. and Saddle Rock Road.
 - Carter Drive and Tupper Drive.
 - Bell Street and Atlantic Street.We are waiting for them to return to begin manhole repairs.



- 4. Modular Office Trailers for Collection System Staff / Building 6A Roofing Update**
The roofing contractor for Building 6A has mobilized onsite to begin the week of 9/9. After the roof is made watertight, the asbestos and mold remediation will be part of an upcoming abatement project.
- 5. Painting of Final Clarifiers # 1, 2 and 4**
Our painting Contractor, MacKenzie is finishing Final Clarifier #4. WPCA will coordinate putting this clarifier back online and taking Tank No. 2 offline for painting.
- 6. Repair of Storm Water Pumps #1 and 3 at Cummings Pump Station**
New England Pump and Valve has removed Pump #3 from the pump station to their shop to disassemble, clean and inspect the pump. They submitted a Condition Report and are working on the repairs needed.
- 7. Sludge Degritting System Upgrade**
We have had some issues with the startup of the new degritting equipment. When the system was started, there was roadway construction debris (large stones and chunks of asphalt) coming out with the grit removal. We are doing some line cleaning of the force main to the new system to see if that improves flows. CH Nickerson is also working on the following:
 - Startup of the new degritting equipment (south).
 - Install grit control panels, conduit and wire new grit snail/slurry cup (south).
 - Pour and form Sludge pump #2 concrete pad and set sludge pumps #2 and associates piping.
 - Reinstall the 18" overflow pipe from degritting to the primary distribution box.
- 8. Repair/Replacement of approximately 175 LF of 12" Sewer on Edice Rd**
Vitti replaced the pipe and reconnected the laterals. A CCTV inspection showed that there is one new pipe section that has a sag in the pipe. Vitti will replace this section.
- 9. Final Settling Tank No. 3 Upgrade**
Tucker Mechanical was sent the agreement to sign. A pre-construction meeting will be scheduled to begin work.

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 = \$ 21,014.68
Contract Sum to Date = \$ 9,186,014.68

Perna Lane Sewer Extension (Contractor – Grasso)

Original Value of the Contract = \$ 8,263,194.41
Total Approved CO Amount = \$ (933,670.05)
Contract Sum to Date = \$ 7,329,524.36

Painting of Clarifiers #1,2, and 4 (Contractor – McKenzie)

Original Value of the Contract = \$ 239,355.00
Total Approved CO Amount = \$ 0
Contract Sum to Date = \$ 239,355.00

Edice Road Sewer Repair (Contractor – A. Vitti)

Original Value of the Contract = \$ 71,500.00
Total Approved CO Amount = \$ 0
Contract Sum to Date = \$ 71,500.00



Final Settling Tank No. 3 Upgrade (Contractor – Tucker Mechanical)

Original Value of the Contract =	\$ 1,031,301.00
Total Approved CO Amount =	\$ 0
Contract Sum to Date =	\$ 1,031,301.00



CHANGES IN THE WORK SUMMARY

Project: Sludge Degritting Improvements
 Owner: Stamford Water Pollution Control Authority
 Project No: CP1455
 Contractor: C.H. Nickerson

GF Project No 63884
 Status as of: September 16, 2024

Item	Allowance Item	Description	Field Order /RFI No.	Date of Confirm Signature	Contractor Proposal	Contractor Proposal Amount	Agreed Upon Amount	Work Completion Status	Extension of Time (Days)	Status	Comments
	A-2	Field Order No.1 is for the issuance of updated construction drawings that addresses the clarifications in RFI Nos 12, 13 and 14.	FO#1					Pending	0	Pending	
	A-2	Field Order No.2 is for the issuance of updated construction drawing E-24 changing the local control station start/stop pushbutton with an on/off selector	FO#2					Pending	0	Pending	
PCO-1	CO 01	Primary pump station bldg wing wall removal	FO#3		PCCOR 03	\$20,902.80	\$15,624.33	Complete	0	Complete	Finalized For Pay Req 15
PCO-2		Primary clarifier tank launder concrete repairs	FO#4					Pending	0	Pending	SWPCA withdrew request
PCO-3		Primary distribution box slide gates replacement	FO#X					Pending	0	Pending	SWPCA confirm gates or logs
PCO-4	A-2	Primary distribution box shutdown to inspect slide gates and 6-inch cap	NA		PCCOR 04	\$7,457.70	\$4,907.59	Complete	0	Pending	Finalized For Pay Req 15
PCO-5		18-inch thickener overflow pipe replacement in PC1 pit	NA					Pending	0		Determined no CO
PCO-6		18-inch thickener overflow pipe replacement from PC1 pit to bypass tee	NA					Pending	0	Pending	CHN to provide proposal. Combine with PCO-1 Wing Wall Removal
PCO-8	A-2	Gravity thickener overflow pipe break and spill over in the yard - plumbers and operators OT. Install trench box for gravity thickener overflow camera inspection by	NA		PCCOR 05	\$19,683.39	\$13,484.17	Complete	0	Complete	Finalized For Pay Req 15
PCO-9	A-2	PC2 sludge line break - cleanout sewage inside excavator	NA		PCCOR 01	\$23,979.00	\$18,820.81	Complete	0	Complete	Finalized For Pay Req 15
PCO-10	CO 01	Work to correct the Odor Control Supports	NA		PCCOR 02	\$7,755.82	\$5,390.35	Complete	0	Complete	Finalized For Pay Req 15
PCO-11	A-2	Plug installed in abandoned line from D box	NA		PCCOR 06	\$6,562.18	\$6,562.18	Complete	0	Complete	Finalized For Pay Req 15
Total	CO 01	PCCOR 02, 03					\$21,014.68				
Total	A-2	PCCO 01, 04, 05 ,06 Total					\$43,774.75				

Allowance No.	Description	Allowance Value	Change	Remaining
A-1	Primary Sludge Degritting System Allowance	\$790,000.00	\$0.00	\$790,000.00
A-2	Construction Contingency Allowance	\$150,000.00	\$0.00	\$150,000.00
A-3	Hazardous Materials Allowance	\$25,000.00	\$0.00	\$25,000.00
	Total	\$965,000.00		\$965,000.00

Unit Cost	Description	Unit	Estimated Qty	Unit Cost	Price
UP-1	Loading, Transportation and Disposal of Polluted Soil	Tons	\$1,450.00	\$51.00	\$73,950.00
UP-2	Loading, Transportation and Disposal of Contaminated Soil	Tons	\$1,450.00	\$126.00	\$182,700.00
	Total				\$256,650.00

Project: Perna Lane Sanitary Sewer Extension
Owner: Stamford Water Pollution Control Authority
Project No: C22046
Contractor: The Grasso Companies, LLC

Status as of: #####

Item	Allowance Item	Description	Contractor Proposal Amount	Agreed Upon Amount	Work Completion Status	Extension of Time (Days)	Comments
PCO-1	1-1	Lateral for 1239 High Ridge Road	\$ 16,329.95	\$ 16,329.95	Complete	0	Finalized For Pay Req 2
PCO-2	2-Jan	Delete Uniformed Traffic Officer	\$ (950,000.00)	\$ (950,000.00)	Complete	0	Finalized For Pay Req 2
Total	CO 01	PCCOR 02, 03		\$ (933,670.05)			