



## TECHNICAL COMMITTEE MEETING MINUTES

Wednesday 06/10/2020

4:30PM

**Via Video/Teleconference**

### Attendees:

Merritt Nesin	Chairman, Technical Committee
Edward Kelly	Committee Member
Mark McGrath (arrived at 4:49pm)	Committee Member
William Brink	Executive Director, WPCA
Rob Pudelka	Plant Supervisor, WPCA
Ann Brown	Supervising Engineer, WPCA

### 1. Call to Order and Roll Call.

M. Nesin called the meeting to order at 4:36pm and announced attendees as listed above.

### 2. Approval of May 13, 2020 meeting minutes.

E. Kelly made a motion to approve the minutes of the May 13, 2020 Technical Committee Meeting; seconded by M. Nesin. Motion carried 2-0-0.

### 3. SWPCA Operations during COVID-19 Pandemic

W. Brink gave an update on the plant and collection system stating that the full operation and maintenance staff is working. They are back to performing routine maintenance and other projects within the plant. The collection system is also with a full staff. They are doing routine inspections and maintenance at the pump stations including yard work, and are starting the sewer cleaning again. W. Brink reported that there are still no reported cases of COVID 19 within the WPCA staff. R. Pudelka indicated that everyone has been wearing masks and following social distancing guidelines.

### 4. Update on Sludge Dryer and Building Repairs

A. Brown indicated that work for the sludge dryer repairs is underway. The contractor, A. Secondino & Son has mobilized to the site, mobilized their subcontractor with a crane and has received some equipment deliveries. They have opened the boarded up overhead door area to move equipment in and out. They are moving equipment through the opening in the roof, have done some repairs to the brick wall in the stairway. The startup for the project is set for mid-September. This is dependent on all equipment being delivered on time. M. Nesin asked if Synagro has amended their permitted sludge production rate. This will be checked.

### 5. Update on Perna Lane Area Survey

A. Brown discussed a draft letter that was prepared to incorporate comments from the board meeting on May 18<sup>th</sup>. E. Kelly requested two changes to the letter as follows: add the basis of the sewer unit calculation for the assessment to the letter and, include the typical annual usage charge.

### 6. Update on Preliminary, Secondary and Disinfection Treatment Improvements

A. Brown provided an update on the construction project. CH Nickerson is working on the UV system to start up by the end of June. WPCA lowered the level in the aeration tanks so the contractor can clean the tanks. The contractor is cleaning the tanks and replacing the diffusers. They are also working on the new blower piping to the aeration tanks. M. Nesin asked how often the aeration tanks are lowered and cleaned. W. Brink indicated this is the first time doing this for Aeration Tanks 1 and 2 since they have been put in service.

## **7. Discussion on plant operations**

R. Pudelka provided the April Monthly Operating Report which is attached and made part of these minutes. He also pointed out several smaller projects the mechanics have completed since a full crew is back to work. They have installed a new hot water heater for flushing the polymer lines, installed a new dryer system for the compressors, installed a new WAS pump, stripped parts from Blower No. 1 and 2 for spares. These blowers will be replaced as part of the plant improvements project. R. Pudelka stated that there were no vacations taken during the COVID 19 reduced work force. Therefore, people are now taking vacation and there may be coverage issues. M. Nesin asked who initiates these smaller projects. R. Pudelka said that the staff discusses the needs and they have good ideas.

## **8. Update on engineering studies and designs**

A. Brown provided an update on engineering studies and design which is attached and made part of these minutes.

- a. Infiltration & Inflow Removal Project
- b. Sludge Degritting System Upgrade
- c. Return Activated Sludge (RAS) and Waste Activated Sludge (WAS) pumps
- d. Sludge Management Plan

## **9. Update on construction projects**

A. Brown provided an update on construction projects which is attached and made part of these minutes.

- a. LED lighting in Operations, Solids Processing and Chemical Buildings
- b. Standby Generator for the Greenwich Ave. Pump Station
- c. Clay Hill Pump Station Generator
- d. Electrical Preventive Maintenance and Arc Flash Evaluation

## **10. Old Business**

## **11. New Business**

There being no further issues to discuss, M. McGrath made a motion to adjourn the meeting, seconded by E. Kelly; motion carried 3-0-0. The meeting was adjourned at 5:16pm.



June 2020

Monthly Operating Report for: May

						PERMIT LIMITS
Q (FLOW)	MGD	AVG	<b>15.9</b>	PEAK	<b>32.6</b>	
BOD INFLUENT	mg/l	AVG	<b>247</b>	LBS/D	<b>32,754</b>	
BOD EFFLUENT	mg/l	AVG	<b>3</b>	MAX	<b>4</b>	20
BOD REMOVAL	%		<b>98.9</b>			85%
TSS INFLUENT	mg/l	AVG	<b>333</b>	LBS/D	<b>44,158</b>	
TSS EFFLUENT	mg/l	AVG	<b>5</b>	MAX	<b>8</b>	20
TSS REMOVAL	%		<b>98.3</b>			85%
UV LOW DOSE	mJ/cm <sup>2</sup>		<b>69</b>			≥30 mJ/cm <sup>2</sup>
TOTAL N INFLUENT	mg/l	AVG	<b>33.5</b>	LBS/D	<b>4,442</b>	
TOTAL N EFFLUENT	mg/l	AVG	<b>2.4</b>	LBS/D	<b>316</b>	926
N REMOVAL	%		<b>92.8</b>			
TOTAL P INFLUENT	mg/l	AVG	<b>No Data</b>			
TOTAL P EFFLUENT	mg/l	AVG	<b>1.06</b>			
P REMOVAL	%		<b>N/A</b>			
EXCEEDANCES	<b>None</b>					

#### PLANT EQUIPMENT HIGHLIGHTS

Solids Process	Installed new hot water heater Replaced permanaganate flush piping Replaced dryer system for compressors and added alternating relay
Methanol	Replaced carrier water rotometers
Aeration	Removed bent valve stem
Operations	Installed rebuilt WAS pump #2
Blower building	stripped parts off #1 & #2 Reinstall industrial shelving

SAFETY PRESENTLY NO EMPLOYEES ABSENT DUE TO COVID-19 LIKE SYMPTOMS.

SAFETY TWO MECHANICS OUT FOR EXTENDED TIME DUE TO SURGERIES.



**UPDATE OF CAPITAL PROJECTS  
TECHNICAL COMMITTEE MEETING  
June 10, 2020**

A. Brown presented the following project updates:

**1. Update on engineering studies and designs**

**a. Infiltration & Inflow Study**

Kenyon Pipeline is returning to work in this area within two to three weeks. We will likely see them back onsite before the end of June. The areas they will be working in will be coordinated with them before they begin.

**b. Sludge Degritting System Upgrade**

Gannett Fleming is completing the bid documents. They anticipate being ready to bid the project in August 2020.

**c. Return Activated Sludge (RAS) and Waste Activated Sludge (WAS) Basis of Design Memo (BODM)**

Hazen Sawyer is working through the RAS and WAS system evaluation. They requested additional drawings and information from the City which was provided. A draft BODM is expected this month.

**d. Sludge Management Plan**

The WPCA has notified the selected firm and the purchasing department notified the other firms of the results. We will be negotiating scope and fee with the selected firm.

**2. Update on construction projects**

**a. LED lighting in Operations, Solids Processing and Chemical Buildings**

Energy Resources expects to have the material in their warehouse by the end of the week. A preconstruction meeting will be scheduled for some time over the next two weeks where we will request an updated schedule.

**b. Design-Build Standby Generator for the Greenwich Ave. Pump Station**

Final shop prints have been reviewed. The Contractor will be ordering equipment and obtaining all permits and approvals to begin.

**c. Clay Hill Pump Station Generator**

We received the design for the generator pad and have forwarded the information to Engineering. Engineering anticipates advertising the project for bids the end of June.

**d. Electrical Preventive Maintenance Arc Flash**

An Agreement has been sent to Siemens for signatures. Certificates of Insurance have been submitted. We will have a revised schedule once the executed Agreement is in place.



### **Change Order Log as of 6-10-20**

There is no change in the log since last month.

Copy of Change Order log for construction projects attached. In summary, the value of Change Orders for Capital projects is as follows:

#### **Preliminary, Secondary and Disinfection Treatment Improvements**

Original Value of Contract = \$ 26,751,500.00  
Total Approved CO Amount = \$ 334,990.15  
Percent of total project = 1.25%

#### **Biosolids Dryer System Selective Demolition**

Original Value of Contract = \$229,306.00  
Total Approved CO Amount = \$ 42,012.00  
Percent of total project = 18.3%

#### **Supply and Install LED Lighting**

Original Value of Contract = \$110,922.37  
Total Approved CO Amount = \$ 17,520.48  
Percent of total project = 15.7%

Stamford WPCF Preliminary, Secondary and Disinfection Treatment Improvements  
Change Order Summary

CHN PCCOR No.	CHN PCCOR Date	Description	PCO								RFI		RFP		WCD	
			Contractor Amount	Status	Included in CO#	Total Approved Amount	Approved to Preliminary	Approved to Secondary	Approved to UV	Approved Date	No.	Date Issued	No.	Date Issued	No.	Date Issued
NA	NA	Replace the Issue for Bidding Specification Sections 00520 - Agreement and 00800 - Supplementary Conditions with the Attached Specifications	\$ -	Approved	1	\$ -					5/10/2019					
01 (rev)	6/21/2019	Programming Services Provider / Integration Services - Revised	\$ 194,922.00	Approved	2	\$ 194,922.00	\$ 48,340.00	\$ 110,000.00	\$ 36,582.00	7/9/2019						
02 (rev)	1/20/2020	Additional Plank Support Framing & Planking at UV Basin 1 Outfall	\$ 35,257.23	Approved	3	\$ 35,257.23			\$ 35,257.23	2/27/2020			01	11/19/2019		
03 (rev)	10/25/2020	Changes to Moment Connection at UV Canopy	\$ 4,076.36	Approved	3	\$ 4,076.36			\$ 4,076.36	12/12/2019	H-019					
04	10/25/2019	Modify Leaking Gate and Wall Infills	\$ 10,824.91	Approved	To Bid Item 5B	\$ 10,824.91		\$ 10,824.91		12/2/2019	W-015	8/19/2019				
05	11/18/2019	UV Pilasters	\$ 2,689.46	Approved	3	\$ 2,689.46			\$ 2,689.46	11/19/2019						
07	1/22/2020	Bulk Waste Testing - Additional	\$ 4,266.05	Approved	To Bid Item 13A	\$ 4,266.05	\$ 4,266.05			2/27/2020						
08	1/28/2020	Additional Gate Demo at ATs	\$ 6,612.83	Approved	To Bid Item 5B	\$ 6,612.83		\$ 6,612.83		2/27/2020					W-05	11/20/2019
09	1/28/2020	Remove and Reinstal drain piping and electrical conduionboxes in Blower Room to install new fire rated wall. Plans did not call for this work	\$ 28,473.69	Approved	3	\$ 28,473.69		\$ 28,473.69		4/7/2020					W-06	11/20/2019
10	2/14/2020	Demo Sonotbe un Conflict with SS Air Pipe	\$ 1,464.31	Approved	To Bid Item 5B	\$ 1,464.31		\$ 1,464.31		2/27/2020					W-07	11/22/2019
11	2/21/2020	Add spool pipe to Septage Area	\$ 1,214.84	Approved	3	\$ 1,214.84	\$ 1,214.84			2/27/2020					W-03	11/20/2019
12	3/4/2020	Additional Cable Tray Supports Not shown on drawings. Approved materials only. Labor to high so going T&M	\$ 16,077.81	Partial Approval	TBD	TDB			TBD		W-65	12/18/19				
13	3/9/2020	Additional Rebar at UV Basin 1	\$ 21,447.91	Approved	3	\$ 21,447.91			\$ 21,447.91	3/15/2020					H-01	12/18/2019
15	3/18/2020	Reroute roof drain from Screenings Building as required by the Stamford Building Department. Approved materials only. Labor to high so going T&M	\$ 6,912.20	Partial Approval	TBD	TBD	TBD			4/7/2020					W-01	
16		Additional Cable Tray & Supports. Approved materials only. Labor to high so going T&M	\$ 12,593.87	Partial Approval	TBD	TBD			TBD	4/7/2020	W-83	12/23/2020				
17	4/14/2020	UV Power Panel Relocation	\$ 23,740.56	Approved	3	\$ 23,740.56			\$ 23,740.56		H-095	4/8/2020				
	4/24/2020	Replace Cables for Gates Not Shown on Contract Drawing	\$ 5,893.78	Under Review												
		Modbus Network Modification		Pending											H-02	3/5/2020







