



TECHNICAL COMMITTEE MEETING MINUTES
Wednesday, August 10, 2022
4:30PM

Via VIDEO/TELECONFERENCE

Attendees:

Merritt Nesin	Chairman, Technical Committee
Edward Kelly	Committee Member
William Brink, PE	Executive Director, WPCA
Ann Brown, P.E.	Supervising Engineer, WPCA
Robert Pudelka	Plant Supervisor, WPCA
Abigail Logrono	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 13, 2022 Meeting Minutes

E. Kelly made a motion to approve the minutes of the July 13, 2022 Technical Committee Meeting; seconded by M. Nesin. Motion carried 2-0-0.

3. Public Comments

None

4. Discussion and Vote: Approval Of Bid Waiver For Siemens Industry, Inc for a One Year HVAC Service Contract in an Amount not to Exceed \$61,356.00

A. Brown presented a proposal from Siemens for the annual service contract in the amount of \$61,356.00. This is for the on-site emergency calls for the plant and pump station as well as inspections and preventive maintenance services. The contract includes the repair/replacement of moving parts. Over the last year, Siemens was called to the plant over 20 times. M. Nesin asked if the WPCA could perform this work with in house staff. R. Pudelka indicated that WPCA does not have the expertise to do this work. The committee members agreed and will recommend approval of a Bid Waiver for this item to the full board.

5. Discussion on Sewer Service for the Wedgemere Road Area

W. Brink gave an overview of the request from area residents sent to the Mayor's office to revisit the Wedgemere Road project. In 2019, a notice was sent to the property owners explaining the reasons for ending the project. Reasoning was that the large lot sizes, one (1) acre, generally have room available for a replacement septic system should the system fail. It was noted that conditions have not changed and the same logic would apply now. It was also noted that there are no known septic system failures in this area.

6. Discussion on Plant Operations

R. Pudelka provided a summary of plant operations for August 2022. He reviewed the Monthly Operating Report and Equipment Update with the Committee which is attached and made part of these minutes.

7. Update on Engineering Studies and Designs

A. Brown provided the committee with an update on engineering studies and designs which is attached and made part of these minutes.

- a. Infiltration & Inflow Removal Project
- b. Sludge Management Plan
- c. Engineering Design Services for Plant Water System and the RAS/WAS Pumping Systems
- d. RFQ for Evaluation of the Alvord Lane, Commerce Drive and Saddle Rock Pump Stations
- e. RFQ for the Design and Supply of a Standby Generator at Clay Hill Pump Station
- f. Perna Lane, Phase 1 Collection Sewers
- g. New Building for Collection System Staff (Bldg 6A)
- h. Structural Evaluation of the Columns in the Sludge Dewatering Building
- i. RFP for Architectural/Engineering Services for Locker Room Renovations at SWPCF.

8. Update on Construction Projects

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

- a. Standby Generator for the Greenwich Ave. Pump Station
- b. Preliminary, Secondary and Disinfection Treatment Improvements
- c. Electrical Preventive Maintenance and Arc Flash Evaluation
- d. Sludge Degritting System Upgrade
- e. Lining 8" sanitary sewer on Long Ridge Road

9. Old Business

10. New Business

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 was adjourned at 5:00PM.



AUGUST 2022 TECHNICAL COMMITTEE REPORT

Monthly Operating Report data:	JULY Results			Permit Limit
	This month (JULY)	Last month (JUNE)	10 Year JULY Monthly AVG	
Q (FLOW) DAILY AVG MGD	13.8	15	15.3	24 MGD DESIGN AVG
Q PEAK FLOW RATE MGD	38.8	42.1	37.8	58 MGD MAX AVG
BOD INFLUENT AVG MG/L	310	275	224	
BOD INFLUENT AVG LBS/D	35,679	34,403		
BOD EFFLUENT AVG MG/L	1 *	2 *	2	
BOD EFFLUENT MAX MG/L	2	2		20 mg/L
BOD REMOVAL %	99.6 *	99.3 *	99	85%
TSS INFLUENT AVG MG/L	471	359	342	
TSS INFLUENT AVG LBS/D	54,208	44,911		
TSS EFFLUENT AVG MG/L	3	3 *	5	
TSS EFFLUENT MAX MG/L	5	4		20 MG/l
TSS REMOVAL %	99.4 *	99.1 *	98.4	85%
TOTAL N INFLUENT AVG MG/L	38	35.4	34.9	
TOTAL N INFLUENT AVG LBS/D	4374	4429	4466	
TOTAL N EFFLUENT AVG MG/L	1.71	1.83	2.04	
TOTAL N EFFLUENT LBS/D	200	231	253	926 LBS/D
N REMOVAL %	95.5	94.8	94.2	
TOTAL P INFLUENT AVG MG/L	5.42	5.24	4.91	
TOTAL P EFFLUENT AVG MG/L	0.25	0.4	0.67	
P REMOVAL %	95.4 *	92.4	87.7	
UV EXCEEDANCES <30 mJ/cm2	0	0		

*** Tied or surpassed best historical performances for months of July ***

Plant Equipment Update

NRCY Pumps	One pumps out at REM - no change, waiting on parts.
Degritter Classifier	OOS needs repair/replace of gearbox and motor
BFP #3	Four rollers sent out for recoating
RAS #3 Pump	VFD failure, repair/replace of unit
STP #3 Pump	VFD failure, repair/replace of unit
JWB Telehandler	Out for repairs for leaking hydraulic system
Basin #2 Outlet Gate	Actuator failure, replacement ordered
RAS #5 Pump	Shaft wear repaired at Metal Industires



**UPDATE OF CAPITAL PROJECTS
TECHNICAL COMMITTEE MEETING
August 10, 2022**

1. UPDATE ON ENGINEERING STUDIES AND DESIGNS

a. Infiltration Inflow Study

CDM Smith is working on the design of the sewer rehabilitation in subareas F1-1 and B1-3. They have sent a design and specifications for our review. Once approved this project can move forward.

b. Sludge Management Plan

No change to this item. Hazen prepared a draft report which reflects the work done to date. Hazen will schedule site visits to two plants after they have been operating a few months. Based on the site visits, changes will be made to the draft report and the report will be finalized.

c. Plant Water, Return Activated Sludge (RAS) and Waste Activated Sludge (WAS)

Gannett Fleming is working on the preliminary design report for the proposed system. WPCA is providing them with information about the plant operations and existing equipment so they can prepare a report.

d. RFQ for Evaluation of the Alvord Lane, Commerce Rd and Saddle Rock Pump Stations

WPCA received qualification packages from 10 engineering firms to evaluate the three pump stations. The selection committee has reviewed the packages and chose the top ranking 4 firms to interview.

e. RFP for the Design and Supply of a Standby Generator at Clay Hill Pump Station

We have all the necessary permits for this project and can now go out to bid. The bid to size and supply the generator. I am working on the Bid to advertise in August.

f. Perna Lane, Phase I Collection Sewers

Tighe and Bond is reviewing the alternatives report regarding the depth of sewers and locations for pump stations. Once the depth of sewers is determined and the potential sites for pump stations are identified, WPCA will have more information to reach out to the property owners and discuss easements. We can then schedule a public hearing to advise the neighborhood what is being looked at.

g. New Building for Collection System Staff

We are working on a RFP for architectural services to design a small building to be used as office space for the collection system staff and the electricians. This is about 12 employees. They are currently located in the metal building 6A which has a leaky roof and mold issues. We are also looking at a temporary office trailer to locate the employees until a new building is ready.

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

The structural engineering firm of McCormack, Pelliccione & Associates has begun their field inspection of the building. They will perform a structural analysis to determine the loads applied to all load bearing framing and design an appropriate repair or replacement of the framing and prepare construction documents for bidding with construction administration services.



i. RFP for Architectural Services for Locker Room Renovations at SWPCA

We received proposals from 5 firms for renovations to the locker rooms. The proposals are under review. The locker rooms are 20 years old. The firm selected will be looking at repairs of the tiles, ventilation and locker space.

2. UPDATE ON CONSTRUCTION PROJECTS

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

WPCA is waiting for the Contractor to provide a schedule with any additional costs for this work. We have spoken to Eversource to discuss raising the transformer above the flood plain as requested by Engineering. Eversource owns the transformer but, WPCA would have to make and pay for any changes. Eversource is not requiring this to be done.

b. Preliminary, Secondary and Disinfection Treatment Improvements

The cleanup and site restoration is ongoing.

c. Electrical Preventive Maintenance / Arc Flash

Siemens has completed the electrical preventive maintenance in the Synagro part of the sludge dryer building and gathering information for the arc flash. The arc flash data has now been forwarded to Tighe & Bond for completion of the project.

d. Sludge Degritting System Upgrade

Gannet Fleming has spoken to Contractors to better understand what the largest costs in bidding this project were. Based on these discussions, they will re-engineer the project to address the comments made and lower the costs. We will be advertising for bids the first week of September.

e. Lining 8” Sanitary Sewer On Long Ridge Road

There is a section of 8-inch sanitary sewer that crosses Long Ridge Road in the location of Table 104 restaurant that was having some backups. WPCA collection system staff investigated and found that a manhole had shifted and the 8-inch line coming into the manhole dropped about 3” outside the manhole causing the issues. Our collection system staff replaced the section of pipe that connected into the manhole. A video inspection shows the rest of the pipe has flattened and is now an oval shape. We are going to line this pipe to provide structural support to the pipe. We awarded a contract to a lining company who came out last week and cleaned and televised the line. They will line the pipe of Friday, 8/12.

Change Order Log as of 7-13-22

Copy of Change Order log for construction projects is attached. We anticipate one more change order to cover the pump shaft supports and the work needed to address the city electrical inspector comments.

Preliminary, Secondary and Disinfection Treatment Improvements (Contractor – CH Nickerson)

Original Value of Contract = \$ 26,751,500.00

Total Approved CO Amount = \$ 3,619,443.37

Contract Sum to Date = \$ 30,373,991.22

Percent of total project = 13.5%

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

CHN PCCOR No.	CHN PCCOR Date	Description	Contractor Amount	Status	Included in CO#	Total Approved Amount	PCO				Approved Date	RFI		RFP		WCD	
							Approved to Preliminary	Approved to Secondary	Approved to UV	Approved		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			H-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					
05	11/18/2019	UV Pilasters	\$ 2,689.46	Approved	3	\$ 2,689.46			\$ 2,689.46		11/19/2019						
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
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
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
17	4/14/2020	UV Power Panel Relocation	\$ 23,740.56	Approved	3	\$ 23,740.56			\$ 23,740.56			H-095	4/8/2020				
14	3/18/2020	Relocate Generator and Modify Bridge Crane per Building Department Request	\$ 83,080.40	Approved	4	\$ 83,080.40		\$ 83,080.40			8/19/2020						
18	6/19/2020	Replace Missing Hardware @ AT Bridges	\$ 5,082.33	Approved	4	\$ 5,082.33		\$ 5,082.33			8/19/2020						
19	7/14/2020	Provide Additional Thin Client Licensing & Integrate Existing Mixers per City Request	\$ 23,618.32	Approved	4	\$ 23,618.32		\$ 19,287.40									
16	4/4/2020	Credit for Redundant Breaker @ ATS	\$ (17,296.74)	Approved	5	\$ (17,296.74)		\$ (17,296.74)			9/23/2020						
21	8/7/2020	Add External Breaker for RSP-2	\$ 9,061.48	Approved	5	\$ 9,061.48	\$ 9,061.48				9/23/2020						
24	8/26/2020	Additional Tags for The GE Historian	\$ 8,590.02	Approved	5	\$ 8,590.02	\$ 2,863.34	\$ 2,863.34	\$ 2,863.34		8/26/2020	H-164	8/19/2020				
25	9/14/2020	Replace UV Channel #3 Inlet Gate	\$ 37,004.86	Approved	5	\$ 37,004.86			\$ 37,004.86		9/15/2020			H-02	9/3/2020		
27	9/15/2020	Install Missing Wiring to MX 60-6 & 60-12	\$ 16,235.90	Approved	5	\$ 16,235.90		\$ 16,235.90			9/23/2020						
28	9/15/2020	New Sampler Location at UV	\$ 5,232.89	Approved	5	\$ 5,232.89			\$ 5,232.89		9/17/2020	H-154	9/8/2020				
29	9/22/2020	Replace Missing WML support rods in Aeration tank 1-4E/4W	\$ 4,869.75	Approved	5	\$ 4,869.75		\$ 4,869.75			9/23/2020						
31	9/22/2020	Test Soils for City Storage tent	\$ 1,525.86	Approved	5	\$ 1,525.86		\$ 1,525.86			9/23/2020						
20	8/21/2020	Cut Sumps in Aeration Tank Floors	\$ 37,083.78	Approved	6	\$ 37,083.78		\$ 37,083.78			10/5/2020						

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

30	9/22/2020	Add Cable Tray and Bus Supports	\$ 57,017.98	Approved	6	\$ 57,017.98		\$ 57,017.98			12/2/2020					
33	10/2/2020	Replace Failing Straub Coupling (Existing)	\$ 5,513.98	Approved	6	\$ 5,513.98		\$ 5,513.98								
40	11/2/2020	Add Supports to Existing Pipe in Blower room	\$ 16,024.43	Approved	6	\$ 16,024.43		\$ 16,024.43		11/11/2020						
36	10/28/2020	Paint UV Steel Walkway at Basins 1 & 2 - Option 1	\$ 12,145.53	Approved	6	\$ 12,145.53		\$ 12,145.53		12/2/2020						
37 (rev)	12/8/2020	Trench Cover at Spare Parts Building	\$ 25,055.44	Approved	7	\$ 25,055.44		\$ 25,055.44		12/17/2020			H-03	10/5/2020		
41 (rev)	12/8/2020	Canopy Extension and Davit Crane	\$ 36,975.66	Approved	7	\$ 36,975.66		\$ 36,975.66		12/17/2020			H-05	10/22/2020		
42 (rev)	12/8/2020	Maintenance Access at UV Electrode Sensors	\$ 16,475.43	Approved	7	\$ 16,475.43		\$ 16,475.43		12/17/2020	RFI-159	8/4/2020				
44	12/22/2020	Electrical Power in Spare Parts Building	\$ 13,554.20	Approved	7	\$ 13,554.20		\$ 13,554.20		1/8/2021			H-04	10/22/2020		
43	1/11/2021	Relocate Fire Alarm Conduit Around Door 1010c	\$ 5,410.15	Approved	7	\$ 5,410.15	\$ 5,410.15			1/6/2021						
45	1/11/2021	Increase Conduit Size to CP-11	\$ 1,191.24	Approved	7	\$ 1,191.24	\$ 1,191.24			1/12/2021						
48	1/21/2021	Add Bearing Cooling Water Gfeed to Influent Pumps	\$ 16,267.28	Approved	8	\$ 16,267.28	\$ 16,267.28			3/1/2021						
49	1/29/2021	Unforeseen Below Grade Conditdions @ RSPS	\$ 19,244.40	Approved	8	\$ 19,244.40	\$ 19,244.40			3/1/2021						
46	4/8/2021	Demo Existing Embed at New Channel #3	\$ 5,163.56	Approved	9	\$ 5,163.56		\$ 5,163.56		5/2/2021						
50 (rev)	2/3/2021	(RFI-196) Heat Trace and Insulate 2" CW	\$ 4,734.43	Approved	9	\$ 4,734.43		\$ 4,734.43		5/26/2021						
52	3/15/2021	Control Mods to Ex. NRCY Pumps to Meet Code	\$ 2,924.08	Approved	9	\$ 2,924.08		\$ 2,924.08								
53	3/15/2021	Add EXP Motor to OH Door at RSPS	\$ 2,815.39	Approved	9	\$ 2,815.39	\$ 2,815.39									
54	3/15/2021	Relocate HVAC Duct to Install Pump VFDs	\$ 1,670.90	Approved	9	\$ 1,670.90	\$ 1,670.90									
55	4/8/2021	Assist in Opening Gate 5030	\$ 3,710.78	Approved	9	\$ 3,710.78		\$ 3,710.78		5/2/2021						
56	4/9/2021	Separate Power/Control on Existing Mixer and Pumps to Maintain Curent Code Complaiance	\$ 19,078.76	Approved	9	\$ 19,078.76		\$ 19,078.76								
57	4/9/2021	Add Missing Wiring to New Ammonia Air Blast Kits	\$ 9,299.78	Approved	9	\$ 9,299.78		\$ 9,299.78								
58	4/9/2021	Delete UPS's @ Blower LCPs	\$ (2,057.30)	Approved	9	\$ (2,057.30)		\$ (2,057.30)								
60	4/20/2021	Emergency repair Assistance - Failed Gate at Primary DBox	\$ 8,483.32	Approved	9	\$ 8,483.32	\$ 8,483.32									
61	4/30/2021	Handrail Around Opening at MWG for UV Channel #3	\$ 2,105.85	Approved	9	\$ 2,105.85		\$ 2,105.85		5/19/2021						

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

62	5/10/2021	(RFI-157A) Grating Grounding at UV Basins	\$ 5,492.86	Approved	9	\$ 5,492.86		\$ 5,492.86	5/11/2021	157A						
64 (rev)	5/12/2021	(RFI-126) Accessibility of UV Transmittance Sensor	\$ 9,493.96	Approved	9	\$ 9,493.96		\$ 9,493.96	5/13/2021	126						
65	5/12/2021	Sawcut Overhand in Stairs in RSPS	\$ 900.43	Approved	9	\$ 900.43	\$ 900.43									
66	5/12/2021	Rework Removable Railings at AT Mixers	\$ -	Approved	9	\$ -	\$ -									
67	5/12/2021	Add Supports @ Influent Channel for Aluminum Plating	\$ 5,315.63	Approved	9	\$ 5,315.63	\$ 5,315.63									
68	5/12/2021	Notch Framing around new influent pump shafts @ 5 Locations	\$ 1,009.50	Approved	9	\$ 1,009.50	\$ 1,009.50									
70	5/17/2021	(WCD-H-03) Encase Electrical and Hydraulic Conduit in Basin #2 (T&M)	\$ 23,166.63	Approved	9	\$ 23,166.63		\$ 23,166.63							H-03	
71	5/21/2021	Provide 7 MGD Clean Recirculated Flow at UV Basin #2	\$ 4,372.78	Approved	9	\$ 4,372.78		\$ 4,372.78	5/26/2021							
72 (rev)	5/21/2021	(RFI-222-H) Basin 2, Channel 3 Existing Wall Inconsistencies	\$ 8,436.33	Approved	9	\$ 8,436.33		\$ 8,436.33	6/6/2021	222						
74	5/28/2021	(RFI-167) Repair to Existing Concrete Beam at UV Effluent PS	\$ 42,048.45	Approved	9	\$ 42,048.45		\$ 42,048.45	6/6/2021	167						
63 (rev)	7/15/2021	Investigate/Repair Failed 42" Force Main	\$ 209,722.28	Approved	10	\$ 209,722.28	\$ 209,722.28									
69 (rev)	7/15/2021	Install Temporary 24" HDPE Force Mains & Manifold	\$ 367,747.46	Approved	10	\$ 367,747.46	\$ 367,747.46									
59	4/16/2021	Add Current Transformers to Blowers to Accept signal and monitoring of Amperage	\$ 24,700.84	Approved	11	\$ 24,700.84		\$ 24,700.84	6/10/2021	237						
75	6/9/2021	Replace Mixer Meltic Connector to Match New Mixers	\$ 7,330.29	Approved	11	\$ 7,330.29		\$ 7,330.29	6/10/2021							
77	7/12/2021	Re-align Pumps 4 and 5 per GA Fleets Recommendation	\$ 2,924.56	Approved	11	\$ 2,924.56	\$ 2,924.56									
78	7/15/2021	Bypass Force Main Rental/Ops Costs 4/21/21 through 6/18/21	\$ 136,711.13	Approved	11	\$ 136,711.13	\$ 136,711.13		8/11/2021							
80	7/29/2021	Paint Existing Bridge Crane runway beams and crane rail at UV Basin #2	\$ 8,221.33	Approved	11	\$ 8,221.33		\$ 8,221.33	7/29/2020			6	7/22/2021			
81	8/13/2021	Radar Level Sensor	\$ 2,407.75	Approved	12	\$ 2,407.75		\$ 2,407.75	8/18/2021						H-04	6/10/2021
83	8/13/2021	Delete Blower Room Floor Painting	\$ (12,915.20)	Approved	12	\$ (12,915.20)		\$ (12,915.20)	8/25/2021							
84	8/18/2021	WCD-05-H UV PLC Programming Modifications - Add channel out of Service Status	\$ 7,691.61	Approved	12	\$ 7,691.61		\$ 7,691.61	8/24/2021						H-05	7/14/2021
85	8/24/2021	(RFI-256) Protection around Fixed Ultrasonic Sensors at UV	\$ 3,053.06	Approved	12	\$ 3,053.06		\$ 3,053.06	9/3/2021	256	7/8/2021					
89	8/27/2021	Add WiFi to Aeration Tank Instruments	\$ 15,421.01	Approved	12	\$ 15,421.01		\$ 15,421.01	8/30/2021							
90	8/27/2021	Replace Existing Plastic JB's on Aeration	\$ 10,997.74	Approved	12	\$ 10,997.74		\$ 10,997.74								

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

92		Add Meltric Plugs AT NRCY Pumps	\$ 24,806.41	Approved	12	\$ 24,806.41		\$ 24,806.41										
		Credit for Remaining Unit Price Item 4C - Surface Spall Repair		Approved	12	\$ (15,107.00)			\$ (15,107.00)									
		Credit for Remaining Unit Price Item 5C - Formed Spall Repair		Approved	12	\$ (35,000.00)			\$ (35,000.00)									
		Additional Unit Price Item 6C - Type I Crack Repair		Approved	12	\$ 875.00			\$ 875.00									
		Credit for Remaining Unit Price Item 7C - Type II Crack Repair		Approved	12	\$ (3,750.00)			\$ (3,750.00)									
		Credit for Remaining Unit Price Item 8C - Type III Crack Repair		Approved	12	\$ (13,855.00)			\$ (13,855.00)									
		Credit for Remaining Unit Price Item 9C - Disposal of Polluted Soils		Approved	12	\$ (14,250.00)			\$ (14,250.00)									
		Credit for Remaining Unit Price Item 10C - Disposal of Contaminated Soils		Approved	12	\$ (21,750.00)			\$ (21,750.00)									
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	
23	4/24/2020	Replace Cables for Gates Not Shown on Contract Drawing	\$ 5,893.78	Revisions Required														
76	6/15/2021	Increase Influent Pump VFD and Cabling	\$ 132,196.26	Approved	12	\$ 132,196.26	\$ 132,196.26											
73	11/23/2021	Replace Primary D-Box Gates and Actuators	\$ 96,748.25	Approved	13	\$ 96,748.25	\$ 96,748.25							01	11/22/2021			
94	11/23/2021	Realign RSP 1,2 &3	\$ 4,067.19	Approved	13	\$ 4,067.19	\$ 4,067.19										37	9/27/2021
95	11/23/2021	Add light to CP-96	\$ 762.80	Approved	13	\$ 762.80	\$ -	\$ 762.80									26	12/15/2020
98	11/23/2021	Configure Hach Controller for WiFi Use	\$ 6,102.42	Approved	13	\$ 6,102.42	\$ -	\$ 6,102.42									31	4/20/2021
99	11/23/2021	Add Aeration Blower VDV Alarm	\$ 2,674.05	Approved	13	\$ 2,674.05	\$ -	\$ 2,674.05									51	
105	11/23/2021	Add Neoprene Pads on Roof	\$ 2,370.74	Approved	13	\$ 2,370.74	\$ 2,370.74					258					36	5/22/2021
106	11/23/2021	Provide Additional Roof Duct Supports	\$ 7,956.42	Approved	13	\$ 7,956.42	\$ 7,956.42					288					54	10/7/2021
107	11/23/2021	Change Pipe Colors in RSPS	\$ 1,762.00	Approved	13	\$ 1,762.00	\$ 1,762.00					289						
109	11/23/2021	SNEET Servoces Assist City	\$ 4,014.79	Approved	13	\$ 4,014.79	\$ 4,014.79											
79	11/23/2021	Force Main Repair and Slip Lining Assistance		Approved	14	\$ 1,302,438.55	\$ 1,302,438.55											
		Additional Work at Spare Parts Building Exterior Door		Pending														
97	10/1/2021	CP-11 Reprogramming for Washpress Operations	\$ 2,542.68	Approved	15	\$ 2,542.68	\$ 2,542.68				1/4/2022							

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

110	12/10/2021	RSPS Building Additional Painting	\$ 12,098.92	Approved	15	\$ 12,098.92	\$ 12,098.92			1/4/2022			3	12/2/2021		
111	12/10/2021	Power Feed to Motor room OH Door	\$ 6,141.48	Approved	15	\$ 6,141.48	\$ 6,141.48			1/4/2022					57	11/17/2021
112	12/17/2021	Power Feed for Indirect Gas Fired Furnace	\$ 1,574.98	Approved	15	\$ 1,574.98	\$ 1,574.98			1/4/2022					62	12/9/2021
115	12/22/2021	Test and Replace Existing Gas Piping at RSPS	\$ 10,802.15	Approved	15	\$ 10,802.15	\$ 10,802.15			1/4/2022					58	11/19/2021
116	12/22/2021	Install and Wire Exterior Pushbutton Station for OH Door 101A	\$ 771.44	Approved	15	\$ 771.44	\$ 771.44			1/4/2022					60	12/9/2021
117	1/3/2022	Programming Changes to Sequencing of Aeration Blower	\$ 1,557.39	Approved	15	\$ 1,557.39	\$ 1,557.39			1/4/2022					61	12/9/2021
119	1/6/2022	Remove NRCY Pump Temp Cabling	\$ 1,475.97	Approved	15	\$ 1,475.97	\$ 1,475.97			1/11/2022					59	11/19/2021
121	1/13/2022	Furnish and Install Horn and Strobe	\$ 5,407.73	Approved	15	\$ 5,407.73	\$ 5,407.73			1/11/2022					63	12/21/2022
122	1/10/2022	Integrate Fire Alarm Duct Smoke Sensors to Existing FACP	\$ 6,902.93	Approved	15	\$ 6,902.93	\$ 6,902.93			1/11/2022					63	12/21/2022
123	1/14/2022	Misc SM Duct Modifications at Screenings/RSPS	\$ 8,848.53	Approved	15	\$ 8,848.53	\$ 8,848.53			1/11/2022					56	10/18/2021
124	1/20/2022	Configure Hach Controller for WiFi Use	\$ 2,987.65	Approved	15	\$ 2,987.65	\$ 2,987.65			1/25/2022						
125	1/26/2022	Explosion Proof Horn alt.	\$ 1,244.85	Approved	15	\$ 1,244.85	\$ 1,244.85									
	3/1/2022	Balance in Contract Item Quantities - Secondary Treatment Upgrade	\$ 6,378.78	Approved	16	\$ 6,378.78	\$ 6,378.78			3/1/2022						
	3/1/2022	Balance in Contract Item Quantities - Preliminary Treatment Upgrade	\$ 341,762.51	Approved	16	\$ 341,762.51	\$ 341,762.51			3/1/2022						
87	11/24/2021	Demo Cove Base in RSPS	\$ 5,553.44	Approved	16	\$ 5,553.44	\$ 5,553.44			3/1/2022					42	7/29/2021
93	9/21/2021	Add'l Wiring and Electrical Infrastructure for Mech Bar Screen Controls	\$ 14,316.56	Approved	16	\$ 14,316.56	\$ 14,316.56			3/1/2022	245	4/9/2021				
126	2/2/2022	Lightning Protection Repairs	\$ 5,455.19	Approved	16	\$ 5,455.19	\$ 5,455.19			2/22/2022						
127	2/24/2022	OH Door Wiring Credit	\$ (1,853.67)	Approved	16	\$ (1,853.67)	\$ (1,853.67)			3/1/2022					57	11/17/2021
128	3/1/2022	ATC-H1 Wiring Revisions	\$ 6,501.38	Approved	16	\$ 6,501.38	\$ 6,501.38			3/1/2022					65	1/4/2022
129	3/1/2022	Power Feed to Low Flow Switch at Odor Control	\$ 2,942.80	Approved	16	\$ 2,942.80	\$ 2,942.80			3/1/2022						
130	3/1/2022	Relocate Gas Detection Panel	\$ -	Approved	16	\$ -	\$ -								64	
						Total	\$ 3,619,443.17	\$ 2,823,461.43	\$ 491,287.57	\$ 300,363.25						