

# TECHNICAL COMMITTEE MEETING MINUTES Tuesday 9/14/2021 4:00PM

#### Via VIDEO/TELECONFERENCE

#### Attendees:

Merritt Nesin, P.E. Chairman, Technical Committee

Edward Kelly Committee Member
Mark McGrath Committee Member
Steve Bagwin Committee Member

William Brink, PE Executive Director, WPCA
Ann Brown, PE Supervising Engineer, WPCA
Rob Pudelka Plant Supervisor, WPCA

### 1. Call to Order and Roll Call

M. Nesin called the meeting to order at 4:00pm and announced the attendees as listed above.

## 2. Approval of August 11, 2021 Meeting Minutes

M. Nesin made a motion to approve the minutes of the July 14, 2021 Technical Committee Meeting; seconded by E. Kelly. Motion carried 4-0-0.

## 3. Public Comment

None

## 4. SWPCA Operations During COVID-19 Pandemic

W. Brink stated that 4 WPCA employees have not been vaccinated. There are no new cases of Covid to report.

#### 5. Update on Force Main Repairs and Cured In Place Pipe Liner

A. Brown stated that the force main liner installation is complete. The leaks have been repaired and the liner was put into operation on 9/1. The contractor still has to take the force main offline and by-pass pump one more time to replace the 90° elbow. Once that is done, the temporary by-pass piping and pumps will be removed and the areas where the pits were dug for lining installation will be restored.

## 6. Impact of Tropical Storm Ida on Plant and Collection System

W. Brink indicated that tropical storm Ida was worse than the July 9th storm. The rain was hardest from 10:00pm to 12:00am. The WPCA rain gauge recorded 2-1/2" of rain between 10:15pm and 10:45pm. There were some sanitary sewer backups into the same homes as reported on July 9th. W. Brink indicated that the collection system mechanics have investigated the property damage claims to confirm they were caused by a sanitary sewer backup. If they are from street or yard flooding or a sump pump, the claim is denied by WPCA. S. Pietrzyk reviews the damage and claims with the claims adjustor. There has been suggestions of putting a backflow preventer on the laterals of building that have had repeated sewer backups. We are looking at the operation of the storm water pumps at Dyke Lane which had issues during the storm. The Committee asked if these events help identify areas of I/I. W. Brink said there are no meters in the system which would locate the problem areas. R. Pudelka indicated that the peak plant capacity is 68 MGD. The plant saw a peak flow of 77MGD which surcharged some tanks and overflowed channel walls. The mixers and blowers were shut off when flow reached about 55-60 MGD to prevent solids from leaving the plant. The plant performed well. There was a 10 second exceedance at UV; an over-rotation of one bar screen unit which bent two teeth on the unit; and, the arm on the Primary Clarifier No. 1 was damaged. The mixers and blowers were put back into service on 9/2 around 2:00pm when flow dropped to 60MGD. The Committee agreed that WPCA should continue to identify points of I/I and remove them from the system.

## 7. Discussion on Repair of Primary Clarifier No. 1

A. Brown explained that the skimmer arms on Primary Clarifier No. 1 were very old and rusty. One arm collapsed and broke during the storm. We need to replace the entire unit and asked the manufacturer for quotes on repairing the arm and then replacing the entire unit. Based on the cost and lead times, we can determine if we should fix the broken side temporarily and include the replacement of the entire unit in the Sludge Degritting bid or replace the entire unit now. It will be reviewed once all costs and equipment lead times are provided.

## 8. Discussion on Change Order Request to Resize and Replace VFD's & Increase Motor Feeder Conductor Size for the Raw Sewage Influent Pumps

W. Brink indicated that during installation of the five (5) raw sewage pumps it was realized that the specified variable frequency drives (VFD's) for the raw sewage pumps were undersized. The raw sewage pumps have 250 hp motors, which would normally require a 250 hp VFD. But because these motors are low speed (900 rpm) they have higher full load amps, and require a larger, 350 hp VFD. This required replacement of the 250 hp VFD with a 350 hp VFD as well as larger wires from the VFD's to the pump motors. The change also delayed the start-up of the raw sewage pumps, resulting in additional costs to rent the bypass pumps and piping. Wright-Pierce brought this to our attention as a change that was caused by their error. They proposed to provide WPCA a credit for the additional cost, less the cost differential between the specified 250 hp VFD and the 350 hp VFD that was provided. The total cost of the change is \$132,196. The cost to upsize the VFD is \$56,441. Wright Pierce will provide a credit to the WPCA in the form of engineering services totaling \$75,755. W. Brink indicated this is reasonable, as it would have been added to Nickerson's bid price if it had been specified in the bid documents. The Technical Committee agreed and commended Wright-Pierce for taking responsibility and bringing it to the WPCA's attention.

## 9. Discussion on Plant Operations

R. Pudelka stated that the plant is doing well. He reviewed the Monthly Operating Report with the Committee which is attached and made part of these minutes.

## 10. Update on Engineering Studies and Designs

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

- a. Infiltration & Inflow Removal Project
- b. Sludge Degritting System Upgrade
- c. Sludge Management Plan
- d. Engineering Design Services for Plant Water System and the RAS/WAS Pumping Systems

#### 11. Update on Construction Projects

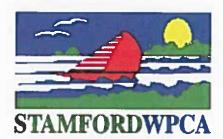
- A. Brown provided the board with an update on engineering studies and designs which is attached and made part of these minutes.
  - a. Standby Generator for the Greenwich Ave. Pump Station
  - b. Preliminary, Secondary and Disinfection Treatment Improvements
  - c. Clay Hill Pump Station Generator
  - d. Electrical Preventive Maintenance and Arc Flash Evaluation

### 12. Old Business

#### 13. New Business

M. Nesin advised the board that he received questions from a resident regarding the status of the Perna Lane project. He asked if the WPCA had any documentation indicating that the septic systems in the area were polluting the river. There is no documentation on this.

There being no further issues to discuss, E. Kelly made a motion to adjourn the meeting, seconded by M. McGrath; motion carried 4-0-0. The meeting was adjourned at 4:58pm.



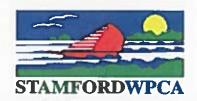
## TECHNICAL COMMITTEE REPORT FOR SEPTEMBER 14, 2021

Monthly Operating Report data:	AUGUST			
	This month (AUGUST)	Last month (JULY)	10 Year Monthly AVG	Permit Limit
Q (FLOW) DAILY AVG MGD	14.6	19.7	14.5	24 MGD DESIGN AVG
Q PEAK DAILY MGD	45	58.9	31	58 MGD MAX AVG
BOD INFLUENT AVG MG/L	246	224	229	
BOD INFLUENT AVG LBS/D	29,954	36,802		
BOD EFFLUENT AVG MG/L	3	2	2	
BOD EFFLUENT MAX MG/L	4	3		20 mg/L
BOD REMOVAL %	98.7	99	99	85%
TSS INFLUENT AVG MG/L	381	275	363	
TSS INFLUENT AVG LBS/D	46,392	45,182		
TSS EFFLUENT AVG MG/L	4	5	5	
TSS EFFLUENT MAX MG/L	7	8		20 MG/I
TSS REMOVAL %	98.7	97.9	98.4	85%
TOTAL N INFLUENT AVG MG/L	33.7	28.8	36.2	
TOTAL N INFLUENT AVG LBS/D	4103	4732	4263	
TOTAL N EFFLUENT AVG MG/L	1.75	1.59	2.27	
TOTAL N EFFLUENT LBS/D	218	245	268	926 LBS/D
N REMOVAL %	94.8	94.3	93.6	
TOTAL P INFLUENT AVG MG/L	4.56	3.82	4.83	
TOTAL P EFFLUENT AVG MG/L	0.21	0.24	0.66	
P REMOVAL %	95.4	93.7	88.1	
UV EXCEEDANCES <30 mJ/cm2	1	1		

## **Equipment Update**

NRCY Pumps
BANANA MIXER
PRIMARY TANK #1
SECONDARY CLARIFIER #1
UV BASIN #2
PRIMARY PUMP #2

TWO PUMPS OUT TO REM FOR CLEANING
OUT OF SERVICE TO FLEET
OUT OF SERVICE. ARM AND RAKE ASSEMBLY NEED REPAIR
IN SERVICE. NEED TO REPLACE MOTOR AND GEARBOX
OUTLET GATE ACTUATOR NEEDS REPLACEMENT
NEEDS NEW MECHANICAL SEAL



# UPDATE OF CAPITAL PROJECTS TECHNICAL COMMITTEE MEETING September 14, 2021

## A. Brown presented the following project updates:

## 1. UPDATE ON ENGINEERING STUDIES AND DESIGNS

## a. Sludge Degritting System Upgrade

The project is scheduled to be advertised for bids this month. This project includes replacing the primary sludge pumps and sludge degritting equipment, as well as the sludge withdrawal piping from the primary settling tanks, with an estimated construction cost of \$4 million. We are reviewing the replacement of skimmer components and drive to determine if the replacement should be included in this contract. The skimmer arm was damaged in tropical storm Ida and needs to be repaired in the immediate future and replaced eventually.

## b. Sludge Management Plan

Hazen is now performing a more detailed analysis on the remaining sludge management technologies. This would include a detailed look at the equipment sizing and costs. This part of the plan should take a few months to analyze.

c. Plant Water, Return Activated Sludge (RAS) and Waste Activated Sludge (WAS) WPCA met with Gannett Fleming to discuss the scope of services. They submitted their scope and fee which is under review.

## 2. UPDATE ON CONSTRUCTION PROJECTS

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

The contractor addressed comments sent by Stamford EPB and Engineering. EPB has approved and engineering is under review. Once approved, the necessary permits for this work can be obtained.

## b. Preliminary, Secondary and Disinfection Treatment Improvements

Construction is ongoing and construction updates are as follows:

42" Force Main:

- The lining operation is complete. The repairs of the leaks were done and the lining passed a pressure test. The lining was put into service on September 1<sup>st</sup>. The piping that was in conflict with the lining operation is being repaired and the pits are being backfilled and areas restored.
- Raw Sewage Pump Station:

All three bar screens have been installed. Two of the three units are in operation. The conveyor from the bar screens is installed by not yet in use.

The five new RSPS pumps were put into operation on September 1<sup>st</sup>. The 90° header pipe out of the RSPS is being replaced with (2) 45° pipes. After this is replaced, the by-pass pumps and piping can be removed.

## Aeration/Blower Building:

• The three new blowers are installed and running. There are some issues with Blower #2 faulting out. The controls for this system are being addressed.

## UV System:

• The TROJAN system is in place in three channels. There have been no major issues.



## c. Clay Hill Pump Station Generator

The generator pad has been installed. The next step is for the WPCA to purchase a generator for this site. No change to this item.

## d. Electrical Preventive Maintenance / Arc Flash

Siemens has one building to complete the electrical preventive maintenance. This is the operations building and this work will require shut downs that need to be coordinated with the contractor work. It will be scheduled for later in the summer after all the work at the UV system is complete. The information will be provided to Tighe & Bond for the Arc Flash Study to be prepared.

## Change Order Log as of 9-14-21

Copy of Change Order log for construction projects attached. The value of Change Orders for Preliminary, Secondary and Disinfection Treatment Improvements has increased to account for work done on the 42" force main repairs. The value of Change Orders for Capital projects to date are as follows:

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

Original Value of Contract = \$ 26,751,500.00 Total Approved CO Amount = \$ 1,590,129.60 Contract Sum to Date = \$ 28,341,629.60

Percent of total project = 5.9%

Electrical Preventive Maintenance (Contractor – Siemens)

Original Value of Contract = \$ 95,732.00 Total Approved CO Amount = \$ 7,854.00 Contract Sum to Date = \$103,586.00

Percent of total project = 8.2%

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

Slamford WPCF Prekminary, Secondary and Disinfection Treatment Improvements Change Order Summary

							Š	onange Order Summany	Summany								
R	8/22/2020	Replace Missing WML support rods in Ascalion tank 1- 4E/4W	\$ 4,86	4,669.75	Approved	45	<b>87</b>	4,869.75		\$ 4,869.75		872372020	2				
.E	872272020	Test Soits for City Storage tent	\$ 1,52	1,525.86	Approved	4	L/s	1,525.86		\$ 1,525.86	<u> </u>	9723/2020					
8	8/21/2020	Cut Sumps in Aeration Tank Floors	\$ 37,083.78		Approved	9	ιο (1	37,083,78		87.083.76		105/2020	8				
8	8/22/2020	S722/2020 Add Cable Tray and Bus Supports	8 57,017.98		Approved	up.	140	57,017,98		\$ 57.017.98			20-02-0-0	12/2/2020			
ន	10/2/2020	Replace Falling Straub Couping (Extelling)	\$ 5,51	5,513.98	Approved	4		5,513.96		\$ 6,513.96							, the same of the
9	11/2/2020	11/2/2020 Add Supports to Existing Pipe in Blower room	\$ 16,024.43		Approved	10		16,024.43		5 16,024.43		11/11/2020	8				
96	10/28/2020	10/20/2020 Pant UV Steel Walkway at Basins 1 & 2 - Option 1	\$ 12,145.53		Approved	46		12,145.53			\$ 12,14	12,145.53 12/2/2020	02				
37 (rev)		12/3/2020 Tranch Cover at Spare Parts Building	\$ 25,055 44		Approved	4	10	25 055 44			\$ 25.05	25.055.44 12/17/2020	8		£ 5	10/5/2020	
41 (rev)		12/8/2020 Cenopy Extension and Davit Crans	\$ 36.975.66		Approved	~	N G	36 975 66	151	=	\$ 36,975 66	5 66 12/17/2020	8		¥.	10/22/2020	
42 (rav)	12/8/2020	Maintantance Access at UV Electrode Sersons	\$ 16,475.43		Approved	~	\$	16.475 43			\$ 16,475,43	5.43 12/17/2020	20 AFI-159	6/4/2020			
1	12/22/2020	12/22/2020 Electrical Power in Spare Parts Building	5 13.554.20		Approved	1		13.554.20			\$ 13.55	13554.20 178/2021	-		五十	020272201	
£\$	1/11/2021	Relocate Fire Alarm Conduit Around Door 1010c	\$ 5,41	5,410.15	Approved	7	w	5,410.15 \$	5,410.15			1/8/2021					
45	1/11/2021	increase Candult Size to CP-11	5 1,19	1,191.24	Approved	~	49	1,181.24 \$	1,191.24			1/12/2021	=				
48	120212/1	Add Bearing Cooking Water Gleed to Influent Pumps	5 16.267.28		Approved			16,267.28 \$	16,267,28			3/1/2021					h - Mille address
67	1/29/2021	1/29/21/21 Unforseen Below Grade Condistions @ RSPS	5 19,244,40		Approved	100	-	19,244 40 \$	19,244.40			3/1/2021					
9	4/8/2021	Demo Existing Embed at New Channel #3	\$ 5,163,56		Approved	ch	u	5,163.56			8 81.8	5,163.56 5/2/2021					
50 (rev)	232021	(RFH-196) Heas Trace and Insulate 2" CW	\$ 4,734.43		Approved	on.	an	4,734.43	n-graphy-regr-4		\$ 4,73	4,734 43 \$25/2021	=		200000		
23	3/15/2021	Control Mods to Ex. NRCY Pumps to Meet Code	\$ 2,924.08		Approved	a	и	2,924.06	PFF	5 2,924 08	****			7-MIR/M/1-Insulation			
23	3/15/2021	Acid EXP Motor to CH Door as RSPS	\$ 2,815.39		Approved	G G	un .	2,815.39 \$	2,815,339		Julië sie bidonium					sinklikler =0-skiller	1
35	3/15/2021	Relocate HVAC Duct to Install Pump VFDs	\$ 1,670 90		Approved		In .	1,670.90 \$	1,670.90			_				***************************************	

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

\$5	4/8/2021	Assist in Opening Gate 5030	\$ 3.710.78	Approved	æ	eri Mi	3,710.78		••	3,710.78	1202/2/5	:	-		No - Green	
58	4/8/2021	Separate Power/Control on Existing Musr and Pumps to Maintain Curent Code Complaints	S 19,078,76	Approved	6	S 19.	19.078.76	S 19,0,	19,078.76					-		
25	4/9/2021	Add Mesing Wiring to New Ammonia Air Blass IGIs	\$ 9,299.78	Approved	0	S 66	9299.78	8	9,299.78				P4949-0448	-		
25	4/8/2021	Detete UPS's © Blower LCPs	\$ (2,057,30)	Approved	ø	(2)	(2,057,30)	\$ (2,03	(2,057.30)							
8	4/20/2021	Emergency repair Assistance - Failed Gale at Printary DBox	S 6.483.32	Approved	•	80°	8,463.32 \$ 8,483.32	32								
- F	4/30/2021	Handraik Around Opening at MWG for UV Channel #3	\$ 2,105.85	Approved	•	87	2,105.85		= 1	2,105.85	1202/61/5		d harveyreeth			
3	5/10/2021	(PFI-157A) Grating Grounding at LIV Basins	\$ 5,492,86	Approved	ø.	riî re	5,492.86		<u></u>	5,492,86	5/11/2021	157A				
64 (rav)	5/12/2021	5/12/2021 (RP-126) Accessibility of UV Transmittance Sensor	\$ 9,493.96	Approved	Ġn .	12.	P,493.96		1/2	9,493.96	5/13/2021	126	***************************************			
23	5/12/2021	Savcut Overhand in Stains in RSPS	S 900.43	Approved	6	и	900.43 \$ 900.43									
99	5/12/2021	Rework Removable Realings at AT Mases	u)	Approved	a		i	·	26						The second second	1
29	5/12/2021	Add Supports © Influent Channel for Aluminum Plating	5,315.63	Approved	Ø.	se.	5,315.63 \$ 5,315.63	2		\						
5	5/12/2021	Notch Framing around new influent pump shafts @ 5 Locations	\$ 1,009.50	Approved	CD	\$ 17	05.600,1 8 05.600,1	05	==							-
5	5/17/2021	(WCD-H-03) Encase Electrical and Hydraulic Conduit In Basin e2 (T&M)	\$ 23,166.63	Approved	¢1	ž.	23,166,63		=	23,166.63					H-03	
£	5/21/2021	Provide 7 MGD Clean Recirculated Flow at UV Basin #2	\$ 4,372.78	Approved	Ø.	\$ 7°	4,372.78		•2	4,372.78	5267021					
72 (rev)	5/21/2021	(RFI-222-H) Basin 2, Channel 3 Existing Wall Inconsistencies	\$ 8,438.33	Approved	En .	9	6.436.33		69	8,436,33	6/6/2021	222	*******			
72	1202/82/5	(RF1-167) Repair to Existing Concrete Beam at UV Effavent PS	\$ 42,048.45	Approved	Ca .	5 42.0	42,048.45	mo-evo-mond	49	42.048 45	6/6/2021	167	1 BA 446			
(vav) [29	7/15/2021	Inveligate/Repair Faled 42" Force Main	\$ 209,722.28	Approved	01	\$ 209,7	209,722.28 \$ 209,722.28	R	=							
68 (npv)	7/15/2021	Install Temporary 24" HDPE Force Mains & Manifold	\$ 367,747.46	Approved	01	\$ 367,7	367,747.46 \$ 367,747.46	8				- 10-00-00				
8	4716/2021	Add Current Transformers to Blowers to Accapt elgnal and monitoring of Amperage	\$ 24,700.84	Approved	=	\$ 24.7	24.700.84	\$ 24,700.84	10.84	-	6/10/2021	237	-			
42	1202/8/9	Replace Mass Maltic Connector to Match New Misers	5 7,330 29	Approved	-	10 2	7,330.29	s 7.33	7,330.29		6/10/2021					

Stamford WPCF Preiminary, Secondary and Distribution Trealment Improvements Change Order Summary

						1	Chairing Close Commission									
12	7/12/2021	Ra-align Pumps 4 and 5 per GA Fleets Recommendation	\$ 2,924.56	Approved	=	\$ 2.924.56	4.56 \$ 2.924.56	99							disconnected virtual of	
202	7715/2021	Bypass Force Main Rental/Ops Costs 4/21/21 through 6/18/21	\$ 136,711,13	3 Approved	=	\$ 136,711,13	L.113 S 136,711.13	2		8/11/2021	120				T-10-1000-0	
89	1202/62/2	Paint Existing Bridge Crane nurwey branns and crane rall at UV Basin #2	\$ 8.221.33	3 Approved	=	\$ 8,221.33	<b>133</b>		, so	8,221.33 7/29/2020	020		9	7/22/2021		
E .	B/13/2021	Radar Level Senson	\$ 2,407.75	S Approved	2	\$ 2,407.75	7.75		ر در در	2,407.75 B/18/2021	120	maga daga nagaga jad			H-04	6/10/2021
9	W13/2021	Defete Blower Room Floar Painting	\$ (12,915.20)	D) Approved	2	\$ (12,815.20)	( <del>S</del> )	\$ (12,915.20)	ô	872572021	120					
2	6/18/2021	WCD-05-H UV PLC Programming Modifications - Add charnel out of Service States	\$ 7,691.61	1 Approved	5	\$ 7,691.61	19:	in the street will	2,7	7,691.61 8/24/2021	iza				£ 58	7/14/2021
28	8242021	(RFI-256) Protection around Fixed Utresonic Sensors at UV	\$ 3,053.06	6 Approved	ŽĮ.	\$ 3,053.06	901	-	8 8	3,053.06 9/3/2021	120	7/8/2021	-			
2	8/27/2021	Add WVF1 to Aeration Tank Instruments	\$ 15,421.01	1 Approved	51	\$ 15,421.01	10:	\$ 15,421.01		8/30/2021	120					
06	6/27/2021	Replace Existing Plastic JBs on Aeration	\$ 10,997,74	Approved	5	5 10,997,74	120	s 10.997.74					per-repp- april a			
		Credit for Remaining Unit Price Item 4D - Surface Spall Repair	-	Approved	12	\$ (15,107.00)	(00:		\$ (15.1	(15,107.00)	d size-siz-tr-tritters					
		Credit for Remaining Unit Price Item 5C - Formed Spall Repair		Approved	52	\$ (35,000.00)	(00)		s (35,0	(35,000.00)	I Indial-attainment		alre diny			
		Addronal Unit Price Ivem 6C - Type I Crack Repair		Approved	5	\$ 675	675.00		87	875.00						
		Cadd for Remaining Unit Price Item 7C - Type II Crack Repair		Approved	Ē.	\$ (3,750.00)	(00)		\$ (3,7	(3,750.00)					11	
		Credit for Remaining Unit Price Item 8C - Type III Crack Repair		Approved	12	s (13,855.00)	(00)		8ELL 8	(13.855.00)						
		Credil for Remaining Unit Price IIem 9C - Disposal of Polluted Soils		Approved	Š	\$ (14,250.00)	(00)		14.2	(14,250.00)						
		Creat for Remaining Unit Price Item 10C - Disposal of Contaminated Soils	,	Approved	12	\$ (21,750.00)	100	ad orthograph	2,12)	(21,750.00)						
51	3/14/2020	Remode rood drain from Screenings Building as required by the Stamford Building Department. Approved materials only. Labor to high so going T&M.	\$ 6,912.20	Partal Approval	180	180	TBD		0 1-00-0484 (s-030-	4/7/2020	02				W 01	
23	4/24/2020	Replace Cables for Gates Not Shown on Contract Drawing	\$ 5,893.78	Havistons Required			<i></i> - 1						11-12-12 G-12-1-			
76	6/15/2021	6/15/2021 Increase Influere Pump VFD and Cabling	s 132.196.26	Pending Discussion with WPCA to Determite Amount Wright: Pierce to Pay	99	180	TBO	and the force of the second						hairan mahari		

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

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8		No.										
RFP	Date	lasned										
ř		No.										
	Date	Issued										
RFI		No.										
	Approved	Date	7,845.00 7/29/2020									
	Total Approved	Amount	\$ 7,845.00									\$ 7,845.00
	Included	la CO#	-									
		Status	Approved						Γ			
PCO	Contractor	Amount	\$ 7,845.00									Total \$ 7,845.00
		Description	EPM and data collection of Sludge 7/29/2020 Oryer Facility not included in original scope.									Fotal
		CO No. CO Date	7/28/2020									
	;	CO No.	-									28.2