

### TECHNICAL COMMITTEE MEETING MINUTES Wednesday, February 23, 2022 4:30PM

### Via VIDEO/TELECONFERENCE

### Attendees:

Merritt Nesin, P.E.

Edward Kelly

Steve Bagwin

William Brink, PE

Ann Brown, P.E.

Robert Pudelka

Chairman, Technical Committee

Committee Member

Committee Member

Executive Director, WPCA

Supervising Engineer, WPCA

Plant Supervisor, WPCA

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

M. Nesin called the meeting to order at 4:30 pm and announced the attendees as listed above.

### 2. Approval of November 10, 2021 Meeting Minutes.

E. Kelly made a motion to approve the minutes of the January 19, 2022 Technical Committee Meeting; seconded by S. Bagwin. Motion carried 3-0-0.

3. Public Comments - None.

### 4. Update on SWPCA's Response to the BOR Resolution No. 4113 re Upgrading of Drainage and Related Infrastructure

W. Brink reported that the Director of Operations requested short and long term bullet points to present to the Board of Representatives Operations Committee. He provided him with a list including the following:

- Continue with the annual I/I program;
- Design Build Greenwich Avenue Generator to elevate the generator out of the flood plain;
- Follow through with recommendations from Stantec's Assessment Report for the three storm water pump stations;
- Update the Hydraulic Analysis of the plant done by Hazen;
- Look at measure that can be taken so the plant does not surcharge;
- Look at resiliency measure at all pump station in flood prone areas;
- Work with the Army Corp to review hurricane barrier, pump station capacities and the height of the hurricane barrier;
- Continue the program to install backflow preventers on laterals of homes in low lying areas where
  if the main line surcharges, sewage can back up into a house.

A discussion ensued about how to prevent storm water from entering the sanitary sewer system. W. Brink explained that currently there are measures being taken with the I/I program however, all measures need to be implemented cost effectively.

### 5. Discussion on Sludge Management Plan

W. Brink reviewed the Hazen work sessions to date including the market analysis, weighted criteria, world of options, and costs of each alternative with the dashboard tool which compares alternatives against one

another. W. Brink went through the options outlined at the last workshop and indicated that Hazen will host another workshop to reexamine the weighted criteria.

### 6. Discussion on Raw Sewage Pumps/Shafts Vibration Testing

A. Brown indicated that the raw sewage pumps have been experiencing vibrations since startup. There was vibration testing done in December 2021. The data was collected at percent's of operating speed. Flygt, the pump manufacturer, felt the data is only valid if the pump is running within the allowable operating range of the pump. Pump speed alone is not sufficient. The vibration test was repeated in February collecting all the pump operating data requested. The report of the result has not yet been submitted. W. Brink indicated that he believes it is the shaft and support column that is vibrating and we may need to reinforce the columns. He is waiting for the report and recommendations from Wright-Pierce.

### 7. Discussion on Abandoned Pipes at Cove Island

E. Kelly reported there are large exposed abandoned pipe at Cove Island Park located near the kayak launching area. He indicated that if this is part of an abandoned sanitary sewer system belonging to the WPCA, we should remove the pipes. W. Brink stated that maps of this area show the pipes and label them as old boiler pipe indicating they would be from an old industrial use, not belonging to WPCA. It was determined that WPCA is not be responsible for removing the pipe.

### 8. Discussion on Plant Operations

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

### 9. 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.

- Infiltration & Inflow Removal Project CDM Smith to start design of next phase of sewer rehabilitation.
- b. Sludge Management Plan next step is to reexamine and refine the weighted criteria.
- Engineering Design Services for Plant Water System and the RAS/WAS Pumping Systems Contracts are being prepared.
- d. RFQ for Evaluation of the Alvord Lane, Commerce Drive and Saddle Rock Pump Stations RFQ is advertised in March.

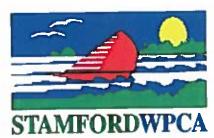
### 10. Update on Construction Projects

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 –Coastal Site Plan Approval is on the February 28th Planning Board meeting for approval.
- b. Preliminary, Secondary and Disinfection Treatment Improvements New septage receiving station is now in service. Painting in raw sewage pump station and site restoration is ongoing.
- c. Clay Hill Pump Station Generator Advertise for bids in March.
- d. Electrical Preventive Maintenance and Arc Flash Evaluation Siemens has one (1) more MCC panel to complete their electrical preventive maintenance (EPM) work. EPM findings have been sent to Tighe & Bond for completion of Arc Flash Study.
- e. Sludge Degritting System Upgrade Bids will be received the beginning of March.
- 11. Old Business A. Brown provided an update of Perna Lane indicating that the neighborhood said that have collected signatures from 2/3 of the property owners as needed. They will continue to get as many signatures as they can. This will be presented to the Board within the next few months.

### 12. 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 was adjourned at 5:41 PM.



### FEBRUARY 2022 TECHNICAL COMMITTEE REPORT

Monthly Operating Report data:	January Results	5		
			10 Year	
	This month	Last month	month's	Permit Limit
	(Jan)	(Dec)	Monthly	Permit Limit
		'	AVG	
Q (FLOW) DAILY AVG MGD	14.5	13.5	17.1	24 MGD DESIGN AVG
Q PEAK MGD	26	22.4	33.5	58 MGD MAX AVG
BOD INFLUENT AVG MG/L	309	295	199	
BOD INFLUENT AVG LBS/D	37,367	33,214		
BOD EFFLUENT AVG MG/L	3	3	4	
BOD EFFLUENT MAX MG/L	5	4		20 mg/L
BOD REMOVAL %	98.9	98.8	98.1	85%
TSS INFLUENT AVG MG/L	446	407	273	
TSS INFLUENT AVG LBS/D	53,934	45,824		
TSS EFFLUENT AVG MG/L	7	8	9	
TSS EFFLUENT MAX MG/L	9	10		20 MG/I
TSS REMOVAL %	98.3	97.9	96.6	85%
TOTAL N INFLUENT AVG MG/L	37.6	45.2	33.1	
TOTAL N INFLUENT AVG LBS/D	4547	5089	4539	
TOTAL N EFFLUENT AVG MG/L	2.18	2.22	2.82	
TOTAL N EFFLUENT LBS/D	267	251	387	926 LBS/D
N REMOVAL %	94.2	95.1	91.5	
TOTAL P INFLUENT AVG MG/L	5.46	6.51	4.55	
TOTAL P EFFLUENT AVG MG/L	0.5	0.31	0.72	
P REMOVAL %	90.8	95.2	84.3	
UV EXCEEDANCES <30 mJ/cm2	2	0		

### **Equipment Update**

NRCY Pumps
BANANA MIXER
RAS Pump #1
FINAL EFFLUENT PUMP
BELT REPLACEMENT
RAS Pump #5
Secondary Clarifier #3

One pump out at REM - no change, waiting on parts. Both mixers operational. Fleet to replace contol panels in service after replacing pumps bearings and seals SPARE OUT FOR SERVICE - no change waiting on parts. 1 BFP BELT REPLACED

Re-pack seal

OOS - replacement of scum trough by Northeast Water



### UPDATE OF CAPITAL PROJECTS TECHNICAL COMMITTEE MEETING February 23, 2022

### A. Brown presented the following project updates:

### 1. UPDATE ON ENGINEERING STUDIES AND DESIGNS

### a. Infiltration Inflow Study

No change to this item. CDM Smith will begin the next phase of the Infiltration and Inflow Removal Project which includes the design of the sewer rehabilitation in subareas F1-1 and B1-3. These subareas were ranked 4th and 5th for subareas having the most infiltration. The work needed in these areas includes sewer and manhole cleaning, manhole rehabilitation, sewer spot replacement and CIPP lining. The sewer rehabilitation is expected to be performed in FY 22-23.

### b. Sludge Degritting System Upgrade

Bids for this project are scheduled to be received March 3, 2022.

### c. Sludge Management Plan

A workshop was held to discuss the mass and energy balances for the shortlisted alternatives and Life-Cycle costs of each alternative. Hazen presented preliminary Energy Balance and Analysis Tool (EBAT) and Dashboard which compares alternatives against one another. A follow up meeting will be scheduled to refine criteria weighting.

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

No change to this item. We are reviewing the scope of services submitted by Gannett Fleming. Once the scope is agreed to, Gannet Fleming will submit a fee schedule.

### e. Storm Water Pump Station Study for FEMA BRIC Grant

Stantec completed the needs assessment, cost estimate, project schedule and benefit cost analysis required for the FEMA BRIC grant application. The grant was submitted on November 29th. The recommended improvements include replacement of the pump stations' aged electrical switch gear and pump motors. We would also like to include the addition of an emergency standby generator.

### 2. UPDATE ON CONSTRUCTION PROJECTS

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

The Costal Site Plan Review for this project is on the Planning Board's February 28th agenda for approval. Once approved, a permit for construction will be issued.

### b. Preliminary, Secondary and Disinfection Treatment Improvements

Most of the work for this project is complete. The equipment has been installed and is operating. There are still issues with the controls for equipment. Painting, cleanup and site restoration is being done.

### c. Clay Hill Pump Station Generator

This project will be out for bids for sizing, purchasing and installing a generator in March.

### d. Electrical Preventive Maintenance / Arc Flash



No change to this item. Siemens has completed electrical preventive maintenance portion of the project. They are finalizing all the information compiled and will be providing it to Tighe & Bond for the Arc Flash Study to be prepared.

### Change Order Log as of 12-14-21

Copy of Change Order log for construction projects is attached. With the unforeseen repairs to the force main, the Change Orders are 11.3% of the total contract amount.

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

Original Value of Contract = \$ 26,751,500.00 Total Approved CO Amount = \$ 3,019,026.81 Contract Sum to Date = \$ 29,770,526.81

Percent of total project = 11.3%

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

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WCD	Daths Issued						11/20/2019	11/20/2019	12/18/2019								:					
W	ž.						90-M	W-03	£ 9													7 2 3 400
RFP	Date Issued			11/19/2019													0202276					
ž	Š			10.1						0.000							H-02					
RFI	Date Issued									4/8/2020						0202/61/0		i	9/8/2020			
	No.				H-019					H-095						H-164			H-154			
	Approved Date	\$10/2019	7/8/2018	22772620	12/12/2019	11/19/2019	4/7/2020	22772020	3/15/2020		B/19/2020	8/19/2020		9/23/2020	8/23/2020	0Z0Z9Z7Q	0702/51/8	9/23/2020	9/17/2020	9/23/2020	9737020	10/5/2020
	Approved to UV		36,582 00	35,257 23	4,076.36	2,689.46			21.447.91	23,740 56						2,863 34	37,004 86		5,232 69			
	Approved to Secondary A		\$ 00 000 D1 \$	-			28,473.69				63,060 40	5,082.33	23,618.32	(17,296 74)		2,863.34 \$		16 235 90		4 869 75	1,525.86	37,083.78
	Approved to Prefirminary	<del>                                     </del>	\$ 48,340.00 \$				<u> </u>	1214 84					. sa	39	9,06148	2,863.34 \$		<b>□ M</b>		_ <del></del> _		
	Total Approved Amount		194,922 00	35,257,23	4,076.36	2,689.46	28,473.69	1,214 84 8	21,447.91	23,740.56	83,080.40	5,002 33	23,618 32	(17,296 74)	B,06146 \$	8,590 02 8	37,004 56	16,235 90	5,232 89	4,869 75	1 525 86	37,083 78
ľ	Included in 1	-	2 8	- n	6	en en	. E	- st	3 6	e e	-	4		N)	S .	\$	2	69 KI	un un	\$	50	φ φ
PCO	Status	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved	Approved
ŀ	Contractor		194,922 00	35,257 23	4,076.36	2,689 46	28,473 69	1,214 84	21,447,91	23,740 56	83,080 40	5,082 33	23,618 32	(17,296 74)	9,061 48	8,590 02	37,004 86	16,235 90	5,232 89	4,669.75	1,525 96	37,083.78
	Description	Replace the Issue for Bidding Specification Sections 00520 - Agreement and 00900 - Supplementary Conditions with the Attachched Specifications	Programming Services Provider / Integration Services - \$	Additional Plank Support Framing & Planking at UV \$ 8esin 1 Outrali	Changes to Moment Connection at UV Canopy S	D UV Prasters	Rentove and Rental trian pang and electrical conduturibous in Blower Room to retail new fre rated \$ wall. Plans did not call for this work.	Add spool pipe to Septage Area	Additional Rebar at UV Basin 1	UV Power Panel Relocation \$	Relocate Generator and Modsly Bridge Crane per 8 Building Department Request	Replace Masurg Hartware @ AT Brojes	Provide Additional Thin Clent Licensing & Integrate Scating Moores per Cry Request	Credit for Redundant Breaker @ ATS	Add External Breaker for RSP-2	Additional Tags for The GE Historian \$	Replace UV Channel #3 Inver Gate	Install Meerig Warig to MX 60-6 & 60-12	New Sampler Location at UV	Replace Missing WML support rods in Aerabon tank 1- \$ 4E/4W	Test Sols for C.f.y Storage tent	Cut Sumpe in Aerabon Tank Floors
	CHN PCCOR	<b>\$</b>	6/21/2019	1/20/2020	10/25/2020	11/18/2019	1/28/2020	221220	3/9/2020	414/2020	3718/2020	6/19/2020	711472020	4/4/2020	6/7/2020	8/26/2020	9/14/2020	9/15/2020	9/15/2020	8/22/2020	9/22/2/2020	6/21/2020
	CHN PCCOR No.	NA	01 (rev)	02 (rev)	03 (rev)	90	8	=	£	17	7	92	<b>5</b>	9		34	55	27	58 28	a a	31	8

# Stamford WPCF Preliminary, Secondary and Distrifection Treatment Improvements Change Order Summary

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30	8/22/2020	Add Cable Tray and Bus Supports	\$ 57 017 98	Approved	9	\$ 57,017.98	7 98	\$ 57,017,98				12/2/2020			2	
33	10/2/2020	Replace Faling Straub Coupling (Existing)	\$ 5,513.98	Approved	9	\$ 5,513.98	3.88	\$ 5,513.98								
40	11/2/2020	Add Supports to Existing Pipe in Blower room	\$ 16,024.43	Approved	Ð	\$ 16,024.43	4.43	\$ 16,024.43		11/11/2020					_	
36	10/28/2020	10/28/2020 Part UV Steel Waltway at Basins 1 & 2 - Option 1	\$ 12,145.53	Approved	19	\$ 12,145.53	5 53		\$ 12,145.53	12/2/2020				-		
37 (rev)	12/8/2020	Trench Cover at Spare Parts Budding	\$ 25,055 44	Approved	2	\$ 25,055 44	544		\$ 25,055 44	12/17/2020			E0.H	10/5/2020		
43 (rev)	12/8/2020	Canopy Extension and Davit Grane	3 36,975 66	Approved	7	\$ 36,975.66	995		\$ 36.975.66	12/17/2020			H-05	10/22/2820	_	
42 (rev)	12/8/2020	Mantenance Access at UV Electrode Sensors	\$ 16,475.43	Approved	7	\$ 16,475.43	5.43		\$ 16,475.43	12/17/2020	RFL159	6442020		_		
44	12/22/2020	12/22/2020 Electrical Power in Spare Parts Building	\$ 13,554.20	Approved	1	\$ 13,554.20	4.20		\$ 13,554.20	1/8/2021		:	H 04	10/22/2020		
43	1/11/2021	Relocate Fire Alarm Condut Around Door 1010c	\$ 5,410.15	Approved	7	\$ 5,410.15	5,410 15			146/2021				-		
45	1/11/2021	Increase Condut Size to CP-11	\$ 1,191.24	Approved	7	\$ 1.19	119124 \$ 1,19124			1/12/2021						
4	1/21/2021	Add Bearing Cooling Water Gleed to Influent Pumps	\$ 16,267,28	Approved	EQ.	\$ 16,267.28	7.26 \$ 16,267.28			3/1/2021						
6	1/29/2021	Untorwen Below Grade Conditions @ RSPS	\$ 19,244.40	Approved	8	\$ 18,244.40	4.40 \$ 19,244.40			31/2021					_	
46	4/8/2021	Demo Exsting Embed at New Channel #3	\$ 1,163 56	Approved	6	\$ 5,163.56	398		\$ 5,163.56	5/2/2021						
50 (rev)	2232021	(RFL196) Heat Trace and Insulate Z CW	\$ 4,734.43	Approved	<b>о</b>	\$ 4,734.43	143		\$ 4,734.43	\$262021		<u> </u>		_	_	
52	3/15/2021	Control Mods to Ex. NRCY Pumps to Meet Code	\$ 2,924.08	Approved	<u></u>	\$ 2,924 08	4 08	\$ 2,924.08								
\$3	3/15/2021	Add EXP Motor to DH Does at RSPS	\$ 2,815.39	Approved	ø.	\$ 2,815.39	539 \$ 2,815.39									
24	3/15/2021	Relocate HVAC Duct to install Pump VFDs	\$ 1,670 90	Approved		1,67	1,670 90 \$ 1,670 90									
25	4/8/2021	Assat in Operarg Gats 5030	\$ 3,710.78	Approved	th .	5 3,710.78	9.28		\$ 3,710.78	1202/2/5						
8	4/9/2021	Separate Power/Control on Exabrg Noer and Pumps to Marttain Curent Code Complaince	\$ 19,078.76	Approved	th	\$ 19,076.76	8.76	\$ 19,078.78								
57	4/9/2021	Add Mesung Wring to New Ammonia Ar Blast Kits	\$ 9,29978	Approved	en en	\$ 9,299.78	9.78	\$ 9.299.78								
999	4/9/2021	Delete UPS's @ Blower LCPs	\$ (2,057,30)	Approved	ø	\$ (2,057.30)	30)	\$ (2,057.30)							_	
8	4/20/2021	Emergency repair Assistance - Faled Gate at Primary DBox	\$ 6,463.32	Approved	ø	\$ 6,483.32	3 22 \$ 6,483 32					i				
61	4/30/2021	Handral Around Opening at MWG for UV Channel #3	\$ 2,105 85	Approved	on	\$ 2,105.85	5.85		\$ 2,106.65	5/19/2021					<u> </u>	
														,-	-	

# Stanford WPCF Preliminary, Secondary and Disinfection Treatment Improvements Change Order Summary

62	5/10/2021	(RFL157A) Grating Grounding at UV Basans	\$ 5,492 B6	Approved	65	\$ 5,492.86	98		\$ 5,492.66	5/11/2021	157A		_	-	_
64 (rev)	5/12/2021	(RF1:126) Accessibility of UV Transmittance Sensor	\$ 9,493.96	Approved	G1	\$ 9,493.96	8		\$ 949396	5/13/2021	25		-	-	
			П											- -	1
SS	5/12/2021	Sawout Overhand in Stars in RSPS	\$ 900 43	Approved	o.	\$ 900 43	13 \$ 900 43						-		
8	5/12/2021	Rework Removable Raings at AT Moers	¥*	Approved	ø.	*	4	10					_		
67	5/12/2021	Add Supports @ Influent Channel for Alumnum Plating	\$ 5,31563	Approved	ø	\$ 5,31563	3 531563						_		į
89	\$12/2/21	Notch Frammig around new influent pump shafts @ 5 Locations	S 1,009 50	pavaddy		1,009 50	\$ 00.							-	
70	5/17/2021	(WCD-H-03) Encase Electrical and Hydrautic Conduit in Basin 92 (T&M)	\$ 23.166.63	Approved	6	\$ 23,156.63	- 2		\$ 23,166.63					1.03	
74	1202/12/5	Provide 7 MGD Clean Recordulated Flow at UV Basin If2	\$ 4,372.78	Approved	D)	\$ 4,372.78	8.		\$ 4,372.78	\$26,2021	2		-		
72 (rev)	521/2021	(RFF 222-H) Basin 2, Channel 3 Existing Wall Inconsistencies	\$ 6,436.33	Approved	gn.	\$ 6,436.33	2		\$ 8,436.33	646/2021	Ħ		_	_	_
74	5/28/2021	(RF1 167) Repar to Existing Concrete Beam at UV Effluent PS	\$ 42,048.45	Approved	60	\$ 42.048 45	\$1		\$ 42,048.45	66/2021	167		_	-	
63 (rev)	7/115/2021	Investigate/Repar Fased 4.7 Force Man	\$ 209,722,28	Approved	ōt.	\$ 209.722.28	8 209.722.28						_		
(va.) 69	7/15/2021	Install Temporary 24" HDPE Force Mans & Manufold	\$ 367,747.48	Approved	01	\$ 367.747.46	8 367,747.48						_	_	
99	4/16/2021	Add Curent Transformers to Blowers to Accept agnal and montoring of Amperage	\$ 24,700.64	Approved	=	\$ 24,700 84	4	\$ 24,700 84		6/10/2021	237			_	
75	6/9/2021	Replace Morer Metto Connector to Match New Maers	\$ 7,330.29	Approved	=	\$ 7,330.29	g <sub>1</sub>	\$ 7,330.29		6/10/2021				-	
7.7	7/12/2021	Re-aign Pumps 4 and 5 per GA Fleets Recommendation	\$ 2,924.56	Approved	=	\$ 2,924.56	6 \$ 2.92456						-	_	
78	7/15/2021	Bypass Force Main Rental/Ops Costs 4/21/21 Brough 6/18/21	8 136,71113	Approved	=	\$ 136,71113	E 13671113			8/11/2021					
60	1/28/2021	Paint Exating Bridge Clane furnish beams and crane rad at UV Basin I/2	\$ 8,22133	Approved	11	\$ 8,221 30	e		\$ 6,22133	7729/2020		8	122020271	5	
5	8113/2021	Radar Level Sensor	\$ 2,407.75	Approved	12	\$ 2,407.75	ø		\$ 2,407.75	6/18/2021		-		2	6102021
83	6/13/2021	Delete Blower Room Floor Pambing	\$ (12,915.20)	Approved	13	\$ (12,915.20	(a	12,915 20)		625/2021			-	_	_
B4	6/16/2021	WCD-05-H UV PLC Programming Modifications - Add channel out of Service Status	\$ 7,69161	Approved	12	\$ 7,69161	-		3 7,69161	8/24/2021				H-05	71142021
555	6/24/2021	(RFL256) Protection around Fixed Ultrasonic Sensors at UV	3,053.06	Approved	12	\$ 3,053.08	9		\$ 3,053.06	1,202,02/8	% %	778/2021		D-6-8	
689	0/27/2021	Add WFI to Aerabon Tank Instruments	\$ 15,421.01	Approved	12	\$ 15,421.01		15,421.01		879/2021			_		
8	8/27/2021	Replace Existing Plastic JBs on Aeration	\$ 10,997.74	Approved	12	\$ 10,997.74	*	10,997.74							

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

				Approved		100 /01/50)		<del></del>	\$ (15,107.00)	11 -					
		Credit for Remarking Unit Price Item SC - Formed Spall Repar		Approved	ŭ	\$ (35,000.00)			(35,000 00)				-		
8 2013		Additional Unit Price Rem 6G - Type I Crack Repair		Approved	12	\$ 675.00			\$ 875.00						
		Credit for Remaning Unit Price Item 7C - Type II Crack Repair		Approved	72	\$ (3,750 00)			\$ (3,750.00)						
		Credit for Remaning Unit Price Rem 8C - Type III Crack Repar		Approved	Į,	\$ (13,855.00)			\$ (13,655.00)						
		Credit for Remanning Unit Price Item 9C - Disposal of Politried Solis		Approved	12	\$ (14.250.00)			\$ (14,250.00)						
		Credit for Remarking Unit Price Iem 10C - Disposal of Contaminated Sols		Approved	12	\$ (21,750.00)			\$ (21,750.00)						
92	3/18/2020	Rerouts roof strain 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	180	180	180		3	4772020				W-01	
23	4242920		\$ 5,89376	Revisions Required											
78	6/15/2021	bicease bituert Pump VFD and Cableng	\$ 132,196.26	Pending Discussion with WPCA to Detenire Amount Wight- Pierze to Pay	081	TBO	081								
E	11/23/2021	1173/2021 Replace Primary D-Box Gates and Acuators	\$ 96,748.25	Approved	22	\$ 96,748.25	\$ 96,748.25					5	11/22/2021		
36	11/23/2021	Realgn RSP 1.2 & 3	\$ 4,087,19	Approved	22	\$ 4,067.19	\$ 4,067 19			_				37	8/27/2021
96	11/23/2021	11/23/2021 Add light to CP-96	\$ 762 80	Approved	13	\$ 76280	\$ 762 80							8	12/15/2020
86	11/23/2021	Configure Hach Control er for WiFi Use	\$ 6,102.42	Approved	5	\$ 6.102.42	\$ 6.102.42							÷.	4/20/2021
66	11/23/2021	Add Aeration Blower VDV Alarm	\$ 2,674.05	Approved	13	\$ 2,674.05	\$ 267405							20	
\$0\$	11/23/2021	Aud Neoprene Pads on Roof	\$ 2,370.74	Approved	13	\$ 2,370.74	\$ 2,37074			-24	25a			36	1202/225
108	11/23/2021	Provide Additional Roof Buct Supports	\$ 7,956.42	Approved	13	\$ 7,956.42	\$ 7,956.42			3	288	<del> </del>		2	10,07,2021
107	11/23/2021	11/23/2021 Change Pipe Colors in RSPS	s 1,762 00	Approved	ž.	1,762.00	1,762.00			~	219				
109	11/23/2021	11/23/2021 SNEET Senoces Asset City	\$ 4,014.79	Approved	5	\$ 4,014.79	\$ 4,014.79			_			-		
7.8	11/23/2021	11/23/2021 Force Man Repar and Sip Linng Assistance		Approved	7	\$ 1,302,438.55	\$ 1,302,438 55								
		Additional Work at Space Parts Building Externor Door		Pending											
	resi		1-		Total 5	\$ 3.019.026.81 \$	\$ 2,269,790.54 \$	448.673.02   3	300,363.25	-	- -	†	-	-	