WPCF Monthly Report

August 2022 Meeting / July 2022 Data

Total Flow (RAW SEWAGE):

7,899,900 gals.

Beacon Heights Leachate

Total Septage Received:

10,500 gals.

2nd QT Arcadis was invoiced for 1,320,357 gals

Total Sludge Removed :

97,600 gals.

Beacon Heights Leachate:
Total Phosphorous Discharged:

449,286 gals. 2.7 lbs./day

Total Nitrogen Discharged:

25 lbs./day

EMERGENCY CALLS & ALARMS:

None to report

Repair or Replacement:

8-11 Ford escape was brought to Hillside auto, the transmission wont shift into 2nd or 4th gear. Replacement is \$5,000 Phone line and time clock at WPCA down all month.

Magnawind is currently working on our #2 VFD at the plant, it won't run in auto.

Testing:

7-5 ATMR quarterly was done this month and we passed

Misc.:

Moving forward with the digester job, the modifications are in production

Ongoing:

we are 60 % done with replacing the bladders in aeration tank #3

- * The Town has also decided to move forward with the \$1M bid package (everything except Bid add alternate #2)
- * see attachments *

Meetings / Classes:

7-12 Met with OSHA rep. to go over safety violations at the WPCA ,all ready working on them. The official notice should be coming in August and they will be time sensitive.

7-13 Quarterly safety meeting

Thank you, For letting me serve.

Thomas A. Carey WPCF Superintendent

Tom Carey

From: George G. Caughman <gcaughman@slrconsulting.com>

Sent: Wednesday, June 15, 2022 9:45 AM

To: Tom Carey; Natasha Nau

Cc: Stephen R. Dietzko; Paul DeStefano

Subject: \$1M Bid Package - 50% Submission Planning Level Estimate

Attachments: 50Pct Submision Estimate.pdf

Good Morning,

Attached please find our Planning Level Estimate for the 50% submission of the \$1M bid package, broken out individually between Base Bid and the agreed Bid Add Alternates. The bare costs of these items are shown individually and the OH&P and projected bond costs are added to the total on the last page. As is customary for planning level, and especially given the volatile price of goods and services these days, we also listed a 20% contingency.

We have additional comments as follows:

- As discussed earlier, completing the cover on the south Digester Tank really means that the guardrail (BAA #3) should be in place to protect operators when working up there, since there's nothing preventing one from sliding off the edge in winter conditions.
- Bid Add Alternate #2 is for replacing the Influent Pumping System, requires modifications to the existing small wetwell to prevent vortexing (which will damage the pumps). Due to the narrow width of the pump room and pipe fitting geometry, we are unable to connect to the existing twin 8" forcemains in a reliable manner, and instead have to run the new 12" forcemain that would be installed for the eventual plant upgrade anyway, about half of its eventual distance. We put in a tee with valved branches so the flow can be directed to the grit chamber now, and to the proposed Screening/Headworks Building in the future, and carried the appropriate cost.
- Included in BAA#2 (Influent Pumping System) is one month's rental on a pair of temporary bypass pumps one
 VFD electric, and one constant speed diesel. A "fuel cube" and containment dike is also included in the rental,
 as well as about 350 gallons of diesel duel. The plan is to power the electric pump from the MCC as the normal
 duty pump, and use the diesel as a backup. Each was specified with 1 MGD capacity. (You could transfer any
 leftover diesel fuel to the generator or existing heating fuel tank.)
- Electing Bid Add Alternate #2 essentially requires also doing BAA#4 refurbishment of the Influent Pump Station Roof Slab, in order to protect the investment in new pumps, VFDs and control system. The roof slab is presently in very poor condition structurally, and water leakage through soft and cracked concrete has damaged the brick walls that hold it up. We have included the cost of removal and replacement of about 50% of the roof slab, as well as saw cutting and repointing the top 3 joints and replacing soft brick, for most of the perimeter of the building, including over the wetwell. A new insulated rubber roof is included, to prevent future damage to the repaired slab.
- Please note that when comparing the total cost of base bid and various combinations of BAAs, include the OH&P, bond and contingency costs applied to the individual bare costs selected.

Please review and advise if we are to complete the design we owe you per contract, or if there is an alternate path you'd like us to take. Please contact me with any questions. Thank you very much!

George

June :	15, 2022			-		
Description	Quantity	Unit	L	Init Price	 Cost	Total Cost
Base Bld (Electrical Service, Generator and Distribution Upgrades, and Require	d Supporting V	Vork		3.000	**	100
Sedimentation and Erosion Control	1	LS	\$	2,500	\$ 2,500	
Dumpster	4	LS	\$	500	\$ 2,000	
Site Maintenance during construction period	1	LS	\$	1,500	\$ 1,500	S.
Bollards at Transformer per Eversource Requirements	1	LS	\$	10,000	\$ 10,000	50
Demolition -Exist Chlorine Stg & Chlorinator Rms -Arch prep for new Elec Rm	1	LS	\$	3,800	\$ 3,800	
Masonry Infill (former window openings)	1	LS	\$	3,000	\$ 3,000	
New Exterior FRP door, frame and hardware	1	LS	\$	4,500	\$ 4,500	
Demo roof fans, ventilator and hydronic heater	1	LS	\$	1,000	\$ 1,000	200
install new roof exh fan, elec unit heater, ductwork, damper, H&V controls	1	ĻS	\$	11,500	\$ 11,500	
Selsmic Bracing (mechanical)	1	LS	\$	2,500	\$ 2,500	
Roof penetration flashing/sealing	1	LS	\$	1,500	\$ 1,500	
Finishes - painting, signage	1	LS	\$	2,000	\$ 2,000	
Electric Utility Fees and Primary Conduit	1	LS	\$	24,000	\$ 24,000	2 - 20.20.002 - 2
Switchgear	1	LS	\$	147,000	\$ 147,000	
Generator/ATS and generator pad	1	15	\$	360,000	\$ 360,000	
Conduit and Wire	1	LS	\$	40,000	\$ 40,000	
Lights and Devices	1	1.5	\$	7,500	\$ 7,500	
Elect Demo	1	LS	\$	32,500	\$ 32,500	
Reverse existing 208/480V transformer to backfeed exist switchgear	1	LS	\$	7,500	\$ 7,500	
I&C Coordination for Blower Control during power changeout	1	LS	\$	2,500	\$ 2,500	
		81	1		\$	one or
Base Bid Total (excludes OH&P, bond and contingency)		•			\$ 666,800	\$ 666



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125	LF	\$	30	\$	3,750		
4	EA	\$	615	\$	2,460		
1	LS	\$	5,420	\$	5,420		
40	LF	\$	23	\$	900		
1	LS	\$	2,500	\$	2,500		
3	EA	\$	400	\$	1,200		
1	LS	\$	500	\$	500		-
50	LF	\$	23	\$	1,144		
1	LS	\$	250	\$	250		
1	LS	\$	1,600	\$	1,600		
1	1.5	\$	800	\$	800		
1	LS	\$	800	\$	800		
1	LS	\$	75,000	\$	75,000	. 100	
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Bld Add Alternate #2 - Replacement of Influent Pumping System				2020/00 00/00	2	8 9 7	1200
	62—148						
Temporary Bypass Pumping System Rental (1 electric on VFD, 1 diesel)	1	LS	\$	18,000	\$	18,000	
Setup of Temp Bypass Pumping System and Removal	1	LS	\$	10,000	\$	10,000	- 2
Fuel for backup pump in Temporary Bypass Pumping System	1	LS	\$	1,800	\$	1,800	
Wiring for Electric Pump from MCC to Temp Bypass Pumping System	1	LS	5_	20,000	\$	20,000	. 200
Maintain Temp Pumping System	1	LS	\$	5,000	\$	5,000	
Wetwell Demo of Exist Fill Concrete	1	LS	\$	8,500	\$	8,500	
Wetwell Modifications - Influent channels and baffle walls	1	LS	\$	31,500	\$	31,500	
Demolition of Exist Pumps, Pads, Motors, Piping, Valves and Supports	1	LS	\$	10,800	\$	10,800	
New Pumps and Motors, with submittals, spare parts, training and startup	3	EA	\$	33,393	\$	99,999	
New Pump Bases	3	EA	\$	1,667	\$	5,001	
Installation of New Pumps and Motors	3	EA	\$	6,667	\$	20,001	
Pump Station Piping and Valves	1	LS	\$	98,000	\$	98,000	
Pipe Supports	1	LS	\$_	54,000	\$	54,000	
Demolition-exist forcemain connections to Grit Chamber & Mods for new 12"	1	LS	\$	8,700	\$	8,700	
New 12" Forcemain	1	LS	\$	45,000	\$	45,000	
Replace Pump Station Control Panel, Flowmeter, Additional Instrumentation	1	LS	\$	90,000	\$	90,000	
Pump Station Architectural Demo	1	LS	\$	800	\$	800	
New Exterior FRP door, frame and hardware	1	LS	\$	4,500	\$	4,500	
Demo exist ventilation	1	LS	\$	500	\$	500	
New ventilation slab, wall and roof penetrations, scaling and flashing	1	LS	\$	3,000	\$	3,000	
New exhaust fans, ventilator, ductwork, MODs, Heater, H&V Controls	1	LS	\$	46,750	\$	46,750	
Seismic Bracing	1	LS	\$	5,900	\$	5,900	
Electrical Demo	1	LS	\$	5,000	\$	5,000	
Elect power, Conduit, Wire	1	LS	\$	85,000	\$	85,000	
VFDs	3	EA	\$	7,500	\$	22,500	
Lights and Devices	1	1.5	\$	21,000	\$	21,000	
Demo old seal water system and pad	1	LS	\$	1,500	\$	1,500	
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Bid Add Alternate #3 - Control Bidg Guardri/Handri Code Updates						
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Handrall/Guardrall/Stair Code Updates	1	LS	\$	65,000	\$ 65,000	
10 100 WHI	15 8.633	- Al-			\$	
Bid Add Alternate #3 - Control Bidg Guardrl/Handrl Code Updates-TOTAL (exclude	es OH&P, I	ond and c	ontInge	ncy)	\$ 65,000	\$ 65,000



Bid All Alternate #4 - Refurbishmt of Influent Pump Station Roof Slab								
Scaffold Under Roof Slab - Erect/Dismantle	1	ĻŠ	\$	5,500	\$	5,500		
Partial Demo Roof Slab	1	LS	\$	4,000	\$	4,000		
Dumpster	1	LS	\$	500	\$	500		
Proetct Exist Equipment	1	LS	\$	500	\$	500	and the second	
Form, Reinforce & Pour Repair Concrete Mix; new lifting eye	1	LS	\$	9,000	\$	9,000		25.15.1
Masonry Repair Scaffolding (Including over wetwell)	1	LS	\$	10,000	\$	10,000		
Masonry repairs - sawcut joints, 3 rows, 4 sides, replace soft brick	1	LS	\$	10,000	\$	10,000		
Apply blocking, built-up insulation and membrane roof	1	LS	\$	7,500	\$	7,500		
Aluminum cap, fascis, gutter box, downspouts	1	LS	\$	2,000	\$	2,000		
Exterior Light Fixtures/Misc	1	LS	\$	5,000	\$	5,000		W-12
					\$			
Bid All Alternate #4 - Returbishmt of Influent Pump Station Roof Slab - TOT	Al (excludes OH)	P. hond	ind con	izencyl	5	54,000	S	54.00

PROJECT TOTAL	 70 =-7.0E0
Subtotal Base Contract and Bid Add Alternates - BARE COSTS	\$ 1,604,875
Overhead and Profit - 15% Subtotal	\$ 240,731
Bond Cost - 2.5% of Subtotal	\$ 40,122
Contingency - Planning Level carried at 20% of Subtotal	\$ 320,975
PROJECT TOTAL	 \$ 2,205,703