

## OPINION OF PROBABLE PROJECT COST

### Water Pollution Control Facility

### Town of Walworth

August 4, 2022  
2180272

Based on recommended scope in 2018 (LaBella) & 2019 (Hunt) engineering reports

Item Description	Unit Cost	Quantity	Units	Ext. Cost	Source/Note
<b>CONSTRUCTION CAPITAL COSTS</b>					
<b>EXISTING CONDITIONS</b>					
Demolish/discard existing aerobic digester tank	\$ 50,000	1	LS	\$ 50,000	Mike Parker at AquaStore
Remove/discard influent pumps	\$ 12,000	1	LS	\$ 12,000	
Remove/discard influent bar rack screen	\$ 5,000	1	LS	\$ 5,000	
Remove/discard SBR air piping	\$ 20,000	1	LS	\$ 20,000	Leaking, per operators
Remove/discard buried diesel storage tank	\$ 20,000	1	LS	\$ 20,000	Assume soils are not contaminated
<b>EXISTING CONDITIONS SUBTOTAL</b>				<b>\$ 107,000</b>	
<b>BUILDINGS</b>					
Expand SBR Control Building (for grit removal system)	\$ 650	350	SF	\$ 227,500	footprint confirmed w/Pista Grit; unit cost assumes everything incl sub grade & fdn
Concrete addition/modifications in RBC building (for UV system)	\$ 7,000	1	LS	\$ 7,000	DeRoller e-mail 29 Jul 22/3:39 PM
Post-Aer Tanks Steel Wall Repair	\$ 450	500	SF	\$ 225,000	From Albion Tank Assessment; 2 tanks - repair as necessary per str assessment
Post-Aer Tanks Floor Rehab	\$ 110	280	SF	\$ 30,800	From Hornell WTP; 2 tanks
Post-Aer Tanks Coating	\$ 41,400	2	EA	\$ 82,800	Tnemec; 2 tanks - repair as necessary per str assessment; includes full application
Waste Sludge Holding Tanks Steel Wall Repair	\$ 450	560	SF	\$ 252,000	From Albion Tank Assessment; 2 tanks - repair as necessary per str assessment
Waste Sludge Holding Tanks Floor Rehab	\$ 110	780	SF	\$ 85,800	From Hornell WTP; 2 tanks
Waste Sludge Holding Tanks Coating	\$ 20	11800	SF	\$ 236,000	Tnemec; 2 tanks - repair as necessary per str assessment; includes full application
Waste Sludge Holding Tanks Rehab: Replace ladders	\$ 2,500	2	EA	\$ 5,000	
General Structural Improvements	\$ 5,000	1	LS	\$ 5,000	DeRoller e-mail 29 Jul 22/3:39 PM
<b>BUILDINGS SUBTOTAL</b>				<b>\$ 1,156,900</b>	
<b>PLUMBING</b>					
Plumbing Improvements	\$ 14,500	1	LS	\$ 14,500	Need from Mechanical/Kevin B.
<b>PLUMBING SUBTOTAL</b>				<b>\$ 14,500</b>	
<b>HVAC</b>					
HVAC Improvements	\$ 160,000	1	LS	\$ 160,000	Need from Mechanical/Kevin B.
<b>HVAC SUBTOTAL</b>				<b>\$ 160,000</b>	
<b>ELECTRICAL</b>					
Electrical improvements	\$ 50,000	1	LS	\$ 50,000	Refeed original service from 1000A transfer switch / 500KW generator
Emergency generator transfer switch	\$ -	1	LS	\$ -	Not Needed, Existing 1000A ATS assumed to have capacity for all facility loads
Capacity/Equipment for new electrical loads	\$ 32,000	1	LS	\$ 32,000	Power feeds to proposed pumps, blowers, UV and grit removal system, etc.
Facilities Electrical	\$ 15,000	1	LS	\$ 15,000	Fire Alarm, Lighting, Miscellaneous power needs
Update control panels, relays, alarms (eg: influent pump station, SBR, etc)	\$ 10,000	1	LS	\$ 10,000	Line voltage power and raceways for process controls and alarms
<b>ELECTRICAL SUBTOTAL</b>				<b>\$ 107,000</b>	
<b>EARTHWORK &amp; EXTERIOR IMPROVEMENTS</b>					
SBR #3 sub-grade preparation	\$ 350,000	1	LS	\$ 350,000	Per Dutchland
Thickened sludge holding tank sub-grade preparation	\$ 150,000	1	LS	\$ 150,000	
Fine grading, topsoil, seeding	\$ 4.44	2500	SY	\$ 11,100	Costworks 329119131000
<b>EARTHWORK &amp; EXTERIOR IMPROVEMENTS SUBTOTAL</b>				<b>\$ 511,100</b>	

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<b>UTILITIES</b>					
Construct 3rd SBR tank (Ø 75' x 24' wall, concrete)	\$ 850,000	1	1 LS	\$ 850,000	Dutchland; Ø 75' x 24' wall; includes foundation & walls
Construct thickened sludge holding tank (Ø 42' x 28' wall)	\$ 546,250	1	1 LS	\$ 546,300	AquaStore's \$475k includes install; 290,000 gal
Post-Aer Tank Dome (Ø 35')	\$ 207,000	1	1 LS	\$ 207,000	AquaStore: \$150k dome, \$30k rim angle (by others); AquaStore's \$150k includes install
Air piping (8" to ex./new SBRs & to thickened sludge holding tank)	\$ 200	265	LF	\$ 53,000	Costworks 331413152060; increased to include site work
New/Adapted process & site piping	\$ 80,000	1	1 LS	\$ 80,000	
<b>UTILITIES SUBTOTAL</b>				<b>\$ 1,736,300</b>	
<b>PROCESS INTERCONNECTIONS</b>					
Level transmitter with htd. enclosure (thk sludge hldg tank)	\$ 6,000	1	1 EA	\$ 6,000	Per Hornell WTP actual prices
SCADA system integration & assorted improvements	\$ 100,000	1	1 LS	\$ 100,000	
Valves and appurtenances	\$ 50,000	1	1 LS	\$ 50,000	
<b>PROCESS INTERCONNECTIONS SUBTOTAL</b>				<b>\$ 156,000</b>	
<b>PROCESS EQUIPMENT</b>					
Influent pumps	\$ 235,000	1	1 LS	\$ 235,000	includes 3 pumps, each 30 hp with VFDs including control panel (\$85k for panel and VFDs)
Influent screen	\$ 124,200	1	1 EA	\$ 124,200	Parkson (Chad Vore); HLS500M
Grit removal equipment	\$ 296,700	1	1 LS	\$ 296,700	Koester/Smith & Lovless Pista Grit; includes V-force baffle & grit classifier & pumps/controls
UV disinfection system	\$ 379,500	1	1 LS	\$ 379,500	Siewert/Denora (Trojan was just a bit lower cap cost: Trojan 3000+; )
SBR equipment (including control panel for all 3 SBRs)	\$ 577,130	1	1 LS	\$ 577,100	GP Jager/Aqua
Blowers (one for 3rd SBR; one for thickened sludge holding tank)	\$ 117,300	2	2 LS	\$ 234,600	Siewert/Ovivo; ~1,100 scfm; 60 hp
Disk Filter	\$ 391,796	1	1 LS	\$ 391,800	Aqua-Aerobics 6-disk AquaDisk Filter
Aeration system (for thickened sludge holding tank)	\$ 317,400	1	1 LS	\$ 317,400	Siewert/Ovivo; ~1,100 scfm; consider replacing with Koester/Sanitaire
<b>PROCESS EQUIPMENT SUBTOTAL</b>				<b>\$ 2,556,300</b>	
<b>BIDDING &amp; GENERAL REQUIREMENTS</b>					
Engineer's Field Office	\$ 10,000	1	1 LS	\$ 10,000	
Special Inspections and Testing	\$ 97,800	1	1 LS	\$ 97,800	
Mobilization, Bonds, and Insurance	\$ 325,800	1	1 LS	\$ 325,800	
<b>BIDDING &amp; GENERAL REQUIREMENTS SUBTOTAL</b>				<b>\$ 433,600</b>	
<b>SUBTOTAL CONSTRUCTION COSTS (2022 PRESENT VALUE)</b>					
				<b>\$ 6,940,000</b>	
<b>SUBTOTAL CONSTRUCTION COSTS (escalated to end 2025; est. const. midpoint)</b>					
				<b>\$ 9,240,000</b>	Inflated for 3 years
<b>ASSOCIATED COSTS</b>					
Construction Contingency				\$ 3,234,000	
Engineering, Bidding and Construction Services				\$ 2,494,800	
Administration, Financial, Bonding and Legal Services				\$ 231,000	Per Barb J.'s estimate (from Attica WTP)
				\$ 5,959,800	
<b>SUBTOTAL ASSOCIATED COSTS</b>				<b>\$ 8,688,600</b>	
<b>TOTAL OPINION OF PROBABLE CAPITAL COST</b>				<b>\$ 15,200,000</b>	