

**Village of Poplar
WWTF Upgrades - Expand Aerated Lagoon System
Construction Cost Estimate
Apr-10**

ITEM	QTY.	UNIT	UNIT COST	COST
New Covered Aerated Lagoon & Associated Site Work				
SITE PREP/MISC DEMOLITION	1	LS	5000	5,000
COMMON EXCAVATION - ON SITE CUT&FILL	4000	CY	5.00	20,000
SELECT SAND FILL (12" over liner)	600	CY	12.00	7,200
40 MIL LAGOON LINER	40000	SF	0.45	18,000
8" DUCTILE IRON YARD PIPE	400	LF	80	32,000
4" PVC PIPE	150	LF	30	4,500
BURIED VALVES	9	EA	2500	22,500
INLET/OUTLET ASSEMBLIES/RISERS	2	LS	3000	6,000
RIP RAP	600	CY	13.00	7,800
GEOTEXTILE FABRIC	750	SY	1.50	1,125
6' FENCE	1500	LF	20.00	30,000
SEED, FERTILIZE, MULCH	1500	SY	1.50	2,250
R-16 INSULATED LAGOON COVER	26000	SF	4.80	124,800
LAGOON AERATION SYSTEM	1	LS	37,000	37,000
INLET/OUTLET MANHOLES	2	LS	3,500	7,000
LAGOON BAFFLE	1	LS	6,000	6,000
12" GRAVEL ROAD	650	SY	8.00	5,200
12" SAND ROAD BASE	650	SY	5.00	3,250
CONCRETE MAINTENANCE PAD	25	CY	500.00	12,500
EROSION CONTROL	1	LS	6,000	6,000
SUBTOTAL AERATED LAGOON				358,125
New Effluent Recycle Pump Station & Associated Site Piping				
EFFLUENT RECYCLE CONCRETE STRUCTURE	1	EA	15,000	15,000
SUBMERSIBLE PUMPS	2	EA	4,000	8,000
INTERNAL PIPING & VALVES	1	LS	4,000	4,000
2" HDPE FM PIPE	900	LF	15	13,500
PUMP CONTROL SWYSTEM	1	LS	7,000	7,000
SUBTOTAL EFFLUENT RECYCLE P.S.				47,500
Headworks/Screening Structure				
CHANNELS/STRUCTURE COST	1	LS	30,000	30,000
BUILDING	1	LS	90,000	90,000
BUILDING DOORS/WINDOWS/FIXTURES	1	LS	20,000	20,000
EQUIPMENT ITEM #1			FINE SCREEN / COLLECTION AUGER	
MATERIAL	1	EA	60,000	60,000
INSTALLATION	1	EA	12,000	12,000
HVAC	1	LS	18000	18,000
PLUMBING	1	LS	9000	9,000
ELECTRICAL	1	LS	25000	25,000
RE-LOCATE INFLUENT SAMPLER	1	LS	2000	2,000
EQUIPMENT ITEM #2			W3 SYSTEM (PUMP/TANK/PIPING/VALVES)	
MATERIAL	1	EA	20,000	20,000
INSTALLATION	1	EA	5,000	5,000
EQUIPMENT ITEM #3			INFLUENT FLOWMETER/MANHOLE/TRANSMITTER	
MATERIAL	1	EA	12,000	12,000
INSTALLATION	1	EA	4,000	4,000
SUBTOTAL HEADWORKS/SCREENING STRUCTURE				307,000
Middle & Elementary School Wastewater Pump Station				
MOBILIZATION & REMOVALS	1	LS	7,000	7,000
EQUIPMENT ITEM #1			Submersible Pumps & Controls	
MATERIAL	2	EA	10,000	20,000
INSTALLATION	2	EA	4,000	8,000
EQUIPMENT ITEM #2			Check and Plug Valves	
MATERIAL	2	EA	1,500	3,000
INSTALLATION	2	EA	500	1,000
EQUIPMENT ITEM #3			Air Release and Isolation Valves	
MATERIAL	3	EA	1,250	3,750
INSTALLATION	3	EA	500	1,500
EQUIPMENT ITEM #4			4-inch HDPE Forcemain & Appurtanences	
MATERIAL	2200	LF	12	26,400
INSTALLATION	2200	LF	2	4,400
EQUIPMENT ITEM #5			Manholes and Castings	
MATERIAL	3	EA	3,500	10,500
INSTALLATION	3	EA	500	1,500
EQUIPMENT ITEM #6			8" PVC Lateral & 4" Waterline Re-location	
MATERIAL	1	LS	11,000	11,000
INSTALLATION	1	LS	5,000	5,000
EQUIPMENT ITEM #7			Flowmeter Assembly	
MATERIAL	1	EA	8,000	8,000
INSTALLATION	1	EA	2,000	2,000
SITE ELECTRIC SERVICE UPGRADES	1	LS	10,000	10,000
SITE EROSION CONTROL & RESTORATION	1	LS	4,000	4,000
SUBTOTAL WASTEWATER PUMP STATION				127,050
Associated WWTF Upgrades - Misc Items				
SLUDGE REMOVAL/DISPOSAL	70,000	GAL	0.35	24,500
ROAD MODIFICATIONS	1	EA	10,000	10,000
SITE ELECTRICAL MODIFICATIONS	1	EA	20,000	20,000
STAND-BY GENERATOR	1	LS	50,000	50,000
SUBTOTAL WWTF UPGRADES				104,500
SUBTOTAL				
				944,175
Contractor Mobilization/Bonding/O&P			7%	66,092
CONTINGENCY			10%	\$94,418
SUBTOTAL - CONSTRUCTION ESTIMATE				
				1,104,685
ENGINEERING/LEGAL/ADMINISTRATIVE				\$200,000
TOTAL PROJECT				\$1,304,685