Grand Valley Waste Plant

(06-Year Recommended Capital/Major Maintenance from 2024 to 2034)

The Ontario Clean Water Agency has identified the following capital projects/major maintenance for your review and approval.

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No.	Scope of Work EMMA Street Pumping Station	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Comi	Healt	Repa Main	Repla	Spar	Approved by Client	Rationale for Project
1	Bi-annual Pump Station Clean Out	\$10,500	\$10,500	\$10,500	\$10,500	\$10,500	\$10,500	\$10,500	\$10,500	\$10,500	\$10,500	\$10,500	x		x	x			Annual cleanout of pump station. Fosters quoted for \$4,500/ day for 2024 + bin rental of \$2,500. Amaranth St included in this price
2	Raw Sewage Pump 1 (Standby) 88.9 l/s	\$750		\$5,500		\$5,500		\$5,500		\$5,500		\$5,500	x		x x	x			Last repaired 2019? 2024 inspection report noted meggar requirement by Belwood Electric
4	Raw Sewage Pump 3 (Standby) 88.9 l/s	\$750	\$15,000			\$5,500			\$75,000				x		x x	x			Impeller, Oil, Wear Ring Replacement - Needs to go to Flygt for repairs, SPL has no record of them repairing this pump. SPL has pump, repairs quoted for \$39,389.98. This pump has been repaired. 2024 Report recommends meggering pump.
5	Pump Inspection/ Maintenance Program	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	x		x x	x			O&M - Quoted for \$4000 per day in 2024. Includes: Travel to your site with two techs Inspect the control panel Preform a ohms test on your pump Remove the pumps from the well Do a visual inspection on your pumps Check the cable for any cuts, rubbing and swelling Check the condition of the cable and flange face Inspect the impeller and wear plate Inspect the Glycol and fill if necessary Reinstall your pump and check to make sure the pump is seated. Send report with pictures & recommendation This will include: 2 pumps from Amaranth St & 3 pumps from Emma St (2 day event)
	Total Estimate - Recommended Capital	\$16,000	\$29,500	\$25,500	\$14,500	\$25,500	\$22,000	\$95,000	\$89,500	\$27,500	\$14,500	\$27,500							
	Grand Valley Collection system																		Wessuc Quote coming in 2024. Approximately 17km of line, 5 year rotation is 3,400m
2	Flushing/ CCTV	\$17,500	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500			×	x			of sewer line per year at approx 4.60/meter (quote will be more accurate)
	Total Estimate - Recommended Capital Amaranth Street Pumping Station	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500							
1	Annual Pump Station Clean Out	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	x	1	x	x			Can be included in Emma Street SPS Cleaning
2	Pump Inspection/ Maintenance Program	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	х		х х	х			Included with Emma St SPS
3	Raw Sewage Pump 1	\$750	\$3,500		\$3,500		\$3,500		\$12,500				х		x x	x			Last repaired in 2019? - SPL @ \$8,700. Report in 2024 recommends meggar by Belwood Electric
6	Pump Station Electical Panel Rework			40.00									х	х	х	х			Electrician & Operator confirmed panel is functioning well. Could look at incorporating into SCADA (need fibre). Include with new south pumping station project?
	Total Estimate - Recommended Capital Grand Valley Plant Head works system	\$750	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$3,500	\$12,500	\$12,500	\$12,500	\$12,500							
2	Annual Septage Tank Clean Out	\$7,500	\$7,500	\$7,500	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000		x	x x	x			Clean out of holding tank required to prevent debris build up. Required 2-3 times per year includes on site, screen travelling channel, on site PS,
4	Septage Receiving Unit Inspection (Muffin Monster)	\$2,500		\$10,500		\$2,500		\$2,500		\$2,500		\$2,500			x	x			ACG Envirocan on site April 26 2021, auger area dry, but can be hosed down, slight wear on auger. To be inspected by Breakwater in 2024.
5	On-Site PS Pump 1	\$8,000											x		x	х			2024 SPL inspection identified worn wear ring & discharge face - get quote for repair
	On-Site PS Pump 2	\$5,000							\$20,000				х		x	x			2024 SPL inpsection stated discharge face is worn and leaking - repair in 2024 to be quoted
6	Grit Vortex Cleaning (2x per year)	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	x			x			Fosters - Can be included if time with other daily activities
7	Replace Oxygen Sensors (2)	\$4,000												x		х			Harsh headworks environment - lifecycle replacement for 02 sensors
8	Gas Sensor Calibrations	\$4,000												x		x			Gas monitoring equipment calibrations 2x/year

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No.	Scope of Work	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Com	Heal	Rep Mair Lifed	Repl	Spai	Approved by Client	Rationale for Project
9	Solenoid Valve Replacement	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000		,	x x				Solenoid valves fail regularly due to the harsh environment. Belwood Electric to replace 1 per year on a rotational basis
10	HVAC Ductwork Repair/Replace	\$30,000												x :	x x	х			HVAC ductwork very corroded included large hole in fan ductwork. Alex to get trade to quote repair - very difficult access.
	Total Estimate - Recommended Capital	\$68,000	\$28,000	\$27,500	\$15,000	\$34,000	\$17,500	\$17,500	\$51,500	\$20,000	\$17,500	\$23,500		<u> </u>		_			
	Grand Valley Waste plant UV and Filter Room																		
1	Parkson Filter Inspection and Media Analysis	\$2,500	\$70,000							\$5,000	\$5,000	\$5,000		× ;	x x	x			Cell 2 was vac'd out Oct 3. Sand replaced Oct 2024. 3 remaining cells to be sent away for media analysis
2	Air Compressor	\$5,000						\$60,000						x 2	x x	х			Ingersol to complete unit service/inspection and determine life cycle replacement requirement - get 3 quotes
3	UV Module Relay Board	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	x	x 2	x x	x			Replacement cost for two relay board replacements (out of 16 total). Currently all are working.
4	UV Sensor Cable Bank A	\$4,000										\$4,500	x	x 2	x x	x			Sensor cable for Bank B replaced in 2024. Bank A is experiencing some fluctuations and likely also nearing life-cycle replacement.
5	UV Lamp Replacement/ Ballast Replacement	\$5,000	\$5,000	\$5,000	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	х	x :	x x	х			Spare parts on hand - stock is good for 2024
6	UV Service - TROJAN	\$4,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	x	x ;	x x	x			Contract price from Trojan to do 2 site visits/year
7	AquaBac	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500		x		x			Midge Fly control in filter room
8	HACH Spectrophotometer (Lab)	\$10,000											x		x	x			Current unit cannot be calibrated in 2025 and is original to plant. Requires replacment.
	Total Estimate - Recommended Capital	\$44,000	\$96,500	\$26,500	\$29,000	\$279,000	\$29,000	\$89,000	\$29,000	\$34,000	\$34,000	\$38,500							
	Grand Valley Waste Plant.												_	_	_	_	_		
1	Natural Gas Heater Inspections	\$2,000											х		х	Х			Alex to contact heating gas fitter for this - required by Intact insurance inspection
2	3" Decant Pump - Secondary Digester	\$10,000											x	;	x	x			Required to decant before sending to biosolids tank. Current set up not operator friendly. Back flows into clarifier if level is below @1.5m. Slip tube has to be lowered slowly as to not overwhelm on site pump station
	Total Estimate - Recommended Capital	\$12,000																	
	Grand Valley Out Buildings Clarifier Cleaning #1	\$4,000			\$4,000			\$4.000			\$4,000			Ι,	x x	x			Fosters to complete, removal of rags and inspection of equipment
C	5			\$4.000		\$4,000	¢4.000		ф.4.00С	\$4,000	\$4,000	\$4.000							O&M - Quoted for \$4000 per day in 2024. Includes: Travel to your site with two techs Inspect the control panel Preform a ohms test on your pump Remove the pumps from the well Do a visual inspection on your pumps
8	Pump Inspection/ Maintenance Program	\$4,000		\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	X	}	X X	X			Check the cable for any cuts, rubbing and swelling Check the condition of the cable and flange face Inspect the impeller and wear plate Inspect the Glycol and fill if necessary Reinstall your pump and check to make sure the pump is seated. Send report with pictures & recommendation This will include: 2 pumps from each onsite pump station
9	Annual Air Filter Replacement (10 total) Total Estimate - Recommended Capital	\$550		\$550	\$550	\$600	\$600	\$600 \$24,800	\$600	\$600	\$600	\$600			х	х			Annual replacement to allow proper/efficient fuction of equipment
	Total Estimate - Recommended Capital	¥6,55U	∓28,75U	- \$57,∠5 0	∓14,25 0	\$22,800	\$17,800	\$24,800	\$55,500	\$22,300	\$22,300	\$18,300							