

# Town of Colonial Beach Wastewater System Repairs/Improvements

List Created: June 2023

Last Updated: 12/2/2024

Location	Project	Actual	Estimate	Notes	Status/Priority	Est. Time of Completion
WWTP	cellular alarm/comm. System for scum pit		\$40,000.00	part of scum pit SCADA	High	2024/2025
WWTP	EQ Tank cleaning/hauling of hazmat		TBD	Solids Mangement/ concentration levels	TBD	TBD
WWTP	EQ/anox tank mixer motors		\$40,000.00	denitrification	High / in Process	2024
WWTP	Sand Filter Building ,SCADA Replace, ChemScan and add new sand 60		\$123,000.00	part of WQIF requirement	Need / in Process	2024/2025
WWTP	Belt Press Restoration		\$59,509.13	The original press is failing and is a critical component	ordered/in proces	2025
WWTP	WWTP Pump upgrades (8) *		\$500,000.00	ID for CIP	Need/Critical	2025/2026
WWTP	* Influent pumps (2 of 4)	\$100,000.00		2 more to Complete	High/2 of 4 COMP	2024
WWTP	* Effluent Pumps (2 of 4)	\$127,450.00		2 more to Complete	High/2 of 4 COMP	2024
WWTP	UV Disinfection system		\$95,000.00	Current system obsolete/ parts are unavailable	Medium	2025
WWTP	Sandblast/coat catwalks/steel structures		\$250,000.00	Staff estimate. Safety issue.	Medium	2025/2026
WWTP	Sand filters sand remove/disposal. Sand filters install/new media/sand		\$400,000.00	Need to test sand Schedule out to replace 1 to 2 Fitters TBD	Medium	2025/2026
WWTP	air diffusers		\$150,000.00	Repair diffuses	Medium	2024/2025
WWTP	Roots blowers (1 onsite/3+F81 installed)	\$30,00.00		4 of 6	3 of 6 COMPLETE	2024
WWTP	FEB LS #2 Valve Replacement		\$100,000.00	3 Required	Low	2024/2026
WWTP	Digester Air Lines		\$500,000.00	Underground lines.	Low	2026 +
WWTP	Concrete influent baffle structure hole(s)		\$25,000.00	Staff estimate.	Low	2025/2026
WWTP	WWTP Conveyor System Upgrade (sludge)		\$121,000.00	ID for CIP	Low	2025/2026
WWTP	SCADA Upgrade	\$150,000.00			COMPLETE	2024
WWTP	125 HP motor for jet pump	\$13,250.00			COMPLETE	2024
WWTP	Air Compressors for Sand Filters (2)	\$35,202.38			COMPLETE	2024
WWTP	Sludge Pumps/Waste RAS	\$45,250.00			COMPLETE	2024
WWTP	FEB Pump Replacements (3 of 3)	\$87,500.00			COMPLETE	2024
WWTP	Filtrate pump station control panel pumps press room B	\$27,650.00		partial press room pump station repair/frog in box	COMPLETE	2024

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WWTP	200HP soft Starter - FEB Jet pump	\$6,500.00			COMPLETE	2024
WWTP	ISCO 5800 Auto Sampler	\$10,000.00			COMPLETE	2024
WWTP	Lab Equipment/pH meter	\$10,000.00		pH meter replaced	COMPLETE	2024
WWTP	FEB pump repair kits	\$14,500.00		3 of 3 pumps	COMPLETE	2024
WWTP	FEB pump 3 new 8" Gator pump	\$87,500.00		3 of 3 pumps	COMPLETE	2024
WWTP	UV Systems Repair (bulbs, LED)	\$20,000.00		convery nonoperational to LED	COMPLETE	2024
WWTP	Press Room pump station - pumps & controls	\$28,000.00		ordered, waiting on parts	COMPLETE	2023
WWTP	Clarifier Motor Repairs	\$10,000.00		Quality Electric redid wiring	COMPLETE	2023
WWTP	WWTP press room (A) pumps Sludge	\$45,250.00			COMPLETE	2023
WWTP	125HP jet pump motor	\$13,250.00			COMPLETE	2023
WWTP	UV Systems bulbs (additional as installed)	\$20,000.00		backup lights for the old system	COMPLETE	2024
WWTP	Scum pit pumps (2)	\$24,600.00			COMPLETE	2024
WWTP	RAS Pump #1 VFD	\$6,700.00			COMPLETE	2024
WWTP	WAS Pumps	\$45,250.00			COMPLETE	2024
WWTP	WWTP/PW Generator Repairs/Upgrades	\$30,000.00			COMPLETE	2024
WWTP	Bypass Pumps/Hose/Rentals	\$20,000.00		Scum pit pumping	COMPLETE	2024
WWTP	Polymer Pumps	\$17,500.00		original pumps have failed	COMPLETE	2024
WWTP	Belt Press Brake	\$590.00			COMPLETE	2024
WWTP	SCADA PM	\$12,000.00		Preventative Maint. Software/hardware upgrades	Routine Annual	
WWTP	WWTP Generators PM contract	\$7,000.00			Routine Annual	
WWTP	Trojan PM contract (UV system)	\$12,055.00			Routine Bi-annual	
<b>Sub totals WWTP</b>		<b>\$1,026,997.38</b>	<b>\$2,403,509.13</b>			
<b>Total WWTP</b>			<b>\$3,430,506.51</b>			

Location	Project	Estimate	Actual	Notes	Status/Priority	Est. Time of Completion
Sewer Pump Stations	Roof/Building repairs		\$75,000.00		High	2025/2027

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Sewer Pump Stations	Generator upgrade 3rd Street		\$75,000.00	will need updated cost	High	2025/2026
Sewer Pump Stations	12th Street		\$19,500.00	Rebuild existing piping/valves/	High parts are in 7	2025
Sewer Pump Stations	2 new call out System		\$20,000.00		High	2025
Sewer Pump Stations	30 pumps		\$280,000.00		Medium	4 pumps per year for the next 6 years
Sewer Pump Stations	Cabinet replacement		\$50,000.00		Medium	1-2 per yr over next 5 yrs
Sewer Pump Stations	Large cabinets on peds		\$150,000.00		Medium	2026/2028
Sewer Pump Stations	RTU pumps (3 rebuilds) - 700 Colonial	\$120,000.00			COMPLETE	2024
Sewer Pump Stations	Cedar/Wakefield pumps/parts	\$29,000.00			COMPLETE	2023/2024
Sewer Pump Stations	RTU pump (new)	\$39,000.00			COMPLETE	2024
Sewer Pump Stations	Horton pumps replaced (failed/obsolete)	\$24,500.00			COMPLETE	2024
Sewer Pump Stations	Potomac Beach pump replacement	\$20,000.00			COMPLETE	2024
Sewer Pump Stations	Stratford St (one pump failure)	\$5,000.00			COMPLETE	2024
Sewer Pump Stations	Bancroft/Chamberlayne (2 failed pumps)	\$20,000.00		Rebuild existing	COMPLETE	2024
Sewer Pump Stations	Load Bank Testing (all in service generators)	12000		Fidelity	Routine Annual	2024
<b>Subtotal Sewer Pump Stations</b>		<b>\$269,500.00</b>	<b>\$669,500.00</b>			
<b>Total Sewer Pump Stations</b>			<b>\$939,000.00</b>			

Location	Project	Estimate	Actual	Notes	Status/Priority	Est. Time of Completion
I&I Infrastructure	I&I testing based on Dewberry report		\$80,000.00		Proposed	2025
I&I Infrastructure	I&I Construction costs		\$5,700,000.00		Proposed	2025/2026
I&I Infrastructure	Central Drainage area project	\$2,700,000.00			COMPLETE	2023
<b>Subtotal I&amp;I Infrastructure</b>		<b>\$2,700,000.00</b>	<b>\$5,780,000.00</b>			
<b>Total I&amp;I Infrastructure</b>			<b>\$8,480,000.00</b>			

<b>Total Combined</b>			<b>\$12,885,506.51</b>			
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