

RESOLUTION NUMBER 1169-2020
Kitsap County Public Works Sewer Utility
Six-Year Capital Facilities Plan 2021-2026

WHEREAS, in compliance with RCW 90.48 and Kitsap County Code 13.12, the Kitsap County Department of Public Works/Sewer Utility has conducted an assessment of the County owned/operated municipal sanitary sewer systems and has developed a six-year capital facilities plan for financing municipal sanitary sewer system improvements for the period of January 1, 2021 through December 31, 2026 and,

WHEREAS, in further compliance with said RCW, the Board of Kitsap County Commissioners has held a public hearing this 23th day of November 2020,

BE IT THEREFORE RESOLVED, by the Board of Kitsap County Commissioners, that the attached Six-Year Capital Facilities Plan for Kitsap County Department of Public Works / Sewer Utility be adopted as set forth in detail, for the period mentioned, consisting of four pages, which are incorporated and made part of this Resolution.

BE IT FURTHER RESOLVED, that, pursuant to RCW 36.70A.130(2)(a)(iv) and KCC 21.08.040, the Board of County Commissioners hereby incorporates portions of the Sewer Utility Six-Year Capital Facilities Plan into the Kitsap County Comprehensive Plan, Capital Facilities Plan. This incorporation by reference replaces and updates the Kitsap County Sanitary Sewer section, specifically the subsection entitled "Capital Facilities Projects and Financing: 2020-2025." The portions of the Sewer Utility Six-Year Capital Facilities Plan that are incorporated are only those components necessary for the Capital Facilities Plan, and set forth in the current Capital Facilities Plan.

DATED this 23 day of NOVEMBER, 2020.



ATTEST:

Dana Daniels
Dana Daniels
Clerk of the Board

BOARD OF COUNTY COMMISSIONERS
KITSAP COUNTY, WASHINGTON

Charlotte Garrido
CHARLOTTE GARRIDO, Chair

Robert Gelder
ROBERT GELDER, Commissioner

E.E. Wolfe
EDWARD E. WOLFE, Commissioner

Kitsap County Sewer Utility 6-Year Capital Facility Plan (CFP) 2021-2026

Project Type
 T - Treatment
 C/C - Collection and Conveyance

Project Purpose
 A. Capacity
 B. Outdated Infrastructure/Redundancy
 C. Water Quality / Water Resource
 D. Energy Efficiency
 E. Planning

Costs are in 2020 dollars.

Table SS.3-1. Capital Facilities Projects and Financing 2021-2026

CFP #	Project #	Project Identification & Scope	Project Type	Project Purpose(s)	Project Component	Project Phase	Annual Budget						
							2021	2022	2023	2024	2025	2026	6-Year CFP Total
1	4102007	<u>Kingston TP Water Reclamation and Reuse</u> The project would upgrade the secondary treatment process to tertiary treatment to provide reclaimed water for irrigation use. Joint project with Suquamish Tribe	T	C	Tertiary treatment facilities	Eng.							
						Const.			\$ 50,000	\$ 1,000,000	\$ 1,000,000	\$ 3,000,000	
						Total			\$ 50,000	\$ 1,000,000	\$ 1,000,000	\$ 3,000,000	\$ 5,050,000
2	4102009	<u>Kingston TP Oxidation Ditch Upgrades</u> The project would upgrade the Kingston Treatment Plant secondary treatment processes to replace outdated equipment and improve nutrient removal.	T	B, C, & D	Replace brushes in the oxidation ditch with mixers and air diffusers; influent screening	Eng.							
						Const.	\$ 90,000						
						Total	\$ 90,000						\$ 90,000
3	4109005	<u>CK TP Structural Coatings</u> Repair and install lining and coating systems in vaults, tanks, and basins to restore integrity and extend life. Proportionate share from Poulsbo and Keyport USN *	T	B	Primary and secondary treatment process	Eng.							
						Const.	\$ 300,000	\$ 300,000					
						Total	\$ 300,000	\$ 300,000					\$ 600,000
4	4103005	<u>Suquamish TP Pipe Replacement</u> Replacement of deteriorated process piping throughout treatment plant.	T	B	Process piping	Eng.							
						Const.		\$ 375,000					
						Total		\$ 375,000					\$ 375,000
5	4101060	<u>CKTP Nutrient Process Upgrades</u> Develop nutrient reduction process to comply with upcoming regulation changes. Proportionate share from Poulsbo and Keyport USN *	T	B & D	Secondary treatment process to reduce nitrogen discharge	Eng.	\$ 500,000						
						Const.							
						Total	\$ 500,000						\$ 500,000
6	4101062	<u>CKTP Diffuser Replacement</u> Existing diffusers are wearing out and requiring excessive O&M for effective operation. Proportionate share from Poulsbo and Keyport USN *	T	B & D	Secondary treatment process	Eng.	\$ 110,000						
						Const.	\$ 1,200,000						
						Total	\$ 1,310,000						\$ 1,310,000
7	4101042	<u>CKTP Replacement Staff Trailers</u> Replace staff trailers at CKTP with facilities in compliance with current building codes Proportionate share from Poulsbo and Keyport USN *	T	A,B, & D	Staff trailers and conference room	Eng.							
						Const.	\$ 613,305						
						Total	\$ 613,305						\$ 613,305
8	41090004	<u>Sewer Utility Facility Plans</u> Update Sewer Utility 20-year facility plans. Updates include treatment and collection/conveyance recommendations. Proportionate share from Poulsbo and Keyport USN *	T&C/C	E	Facility plans for Manchester, Suquamish, Kingston, and Central Kitsap sewer service areas	Eng.	\$ 1,365,000	\$ 685,000					
						Const.							
						Total	\$ 1,365,000	\$ 685,000					\$ 2,050,000
9	4101037	<u>Pump Station 3 / Pump Station 4 and Coll/Conv Piping</u> Replacement of existing PS 3 with new Facility, in conjunction with Port of Silverdale, incl. Old Town Silverdale sewers. Replacement of existing PS 4 incl. Fredrickson Rd sewers. PS 4 construction 2022/23. PS 3 construction 2023/24.	C/C	A, B, & D	Pump station structures, pumps, drives, motors, instrumentation controls, electrical, and gravity sewer/fm piping	Eng.	\$ 1,329,000	\$ 305,250					
						Const.		\$ 4,436,250	\$ 7,081,750	\$ 2,645,500			
						Total	\$ 1,329,000	\$ 4,741,500	\$ 7,081,750	\$ 2,645,500	\$ -	\$ -	\$ 15,797,750
10	4101036	<u>Lemolo Shores Pipeline Upgrade</u> The project is to replace the existing forcemain with a new upsized pipe for capacity and replace outdated material. Proportionate share from Poulsbo *	C/C	A & B	4,500 LF of 18-inch pipe	Eng.		\$ 408,000					
						Const.			\$ 2,550,000	\$ 612,000			
						Total		\$ 408,000	\$ 2,550,000	\$ 612,000			\$ 3,570,000

CFP #	Project #	Project Identification & Scope	Project Type	Project Purpose(s)	Project Component	Project Phase	Annual Budget								
							2021	2022	2023	2024	2025	2026	6-Year CFP Total		
11	4101050	<u>Third Lemolo Siphon</u> The project will construct a third siphon under Liberty Bay. City of Poulsbo will conduct predesign and permitting effort. Proportionate share from Poulsbo *	C/C	A & B	Piping to provide sufficient capacity and redundancy	Eng.									
						Const.						\$ 710,000	\$ 710,000		
						Total						\$ 710,000	\$ 710,000	\$ 1,420,000	
12	4101029	<u>Bay Shore Drive Gravity Pipe Upgrade</u> The project is to replace and upsized the existing outdated gravity pipe along Bay Shore Dr. and Washington Ave. in Silverdale Joint project with Roads & Stormwater Divisions	C/C	A & B	2,800 LF of 12-inch sewer pipe, stormwater conveyance, roadway improvements	Eng.									
						Const.	\$ 5,220,000	\$ 300,000							
						Total	\$ 5,220,000	\$ 300,000						\$ 5,520,000	
13	4107002	<u>Navy Yard City I&I Repair</u> Repair of collection system elements to eliminate infiltration and inflow into the treatment system.	C/C	B	Line or replace piping and manholes in the collection/conveyance system.	Eng.									
						Const.	\$ 300,000	\$ 300,000	\$ 300,000						
						Total	\$ 300,000	\$ 300,000	\$ 300,000					\$ 900,000	
14	4101045	<u>Old Military Rd. Piping Upgrades</u> Replacing existing sewer on Old Military Road from Foster Road to Waaga Way to increase capacity.	C/C	A & B	Approximately 7,780 lineal feet of 30" gravity and forcemain pipe	Eng.			\$ 450,000	\$ 450,000					
						Const.					\$ 5,800,000				
						Total			\$ 450,000	\$ 450,000	\$ 5,800,000		\$ 6,700,000		
15	4101059	<u>Pump Station 19 and Pump Station 31 Upgrades</u> Upgrades to PS 19 and replacement of PS 31.	C/C	A & B	Pump station structures, pumps, motors, electrical, instrumentation and controls, and piping	Eng.	\$ 348,000								
						Const.		\$ 3,900,000	\$ 1,300,000						
						Total	\$ 348,000	\$ 3,900,000	\$ 1,300,000				\$ 5,548,000		
16	4101056	<u>Bangor/Keyport Forcemain H2S Evaluation</u> Design and construction of preferred alternative for replacement of sewer forcemain between Bangor Base and Pump Station 24, Keyport to Pump Station 24 and from Pump Station 24 to CKTP, due to H2S deterioration. Proportionate share from Poulsbo and Keyport USN *	C/C	B	Over 5 miles of 14-inch and 24-inch forcemain piping including air stations and appurtenances	Eng.	\$ 963,000	\$ 262,700							
						Const.		\$ 6,600,000	\$ 16,000,000	\$ 4,000,000					
						Total	\$ 963,000	\$ 6,862,700	\$ 16,000,000	\$ 4,000,000			\$ 27,825,700		
Totals							\$ 12,338,305	\$ 17,464,200	\$ 25,589,750	\$ 10,645,500	\$ 8,122,000	\$ 3,710,000	\$ 77,869,755		

Summary: Costs and Revenues

Costs:								
Capacity Projects	\$ 7,510,305	\$ 8,941,500	\$ 9,239,750	\$ 5,645,500	\$ 7,122,000	\$ 710,000	\$ 39,169,055	
Non-capacity Projects	\$ 4,828,000	\$ 8,522,700	\$ 16,350,000	\$ 5,000,000	\$ 1,000,000	\$ 3,000,000	\$ 38,700,700	
Total Project Costs	\$ 12,338,305	\$ 17,464,200	\$ 25,589,750	\$ 10,645,500	\$ 8,122,000	\$ 3,710,000	\$ 77,869,755	
Revenues:								
Sewer Revenue Bonds	\$ 32,500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 32,500,000	
City of Poulsbo Proportionate Share	\$ -	\$ 555,633	\$ 94,980	\$ -	\$ 3,645,167	\$ 3,570,000	\$ 7,865,780	
USN Keyport Proportionate Share	\$ 112,403	\$ 170,487	\$ 374,400	\$ 93,600	\$ -	\$ -	\$ 750,890	
Sewer Fees	\$ (20,274,098)	\$ 16,738,080	\$ 25,120,370	\$ 10,551,900	\$ 4,476,833	\$ 140,000	\$ 36,753,085	
Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	

* The City of Poulsbo will pay a proportionate share of the cost of the following projects in accordance with the sewer service contact with Kitsap County
 CKTP Projects - 15.83%
 Lemolo Shores and Lemolo Siphon - 100.0%
 Bangor/Keyport Forcemain Project - 13.1%

* The Keyport USN Base will pay a proportionate share of the cost of the following projects in accordance with the sewer service contract with Kitsap County
 CKTP Projects - 3.33%
 Bangor/Keyport Forcemain Project - 2.34%

Kitsap County Sewer Utility Division

Proposed Capital Facility Plan (2021-2026) Project Locations

