200-2023

Kitsap County Resolutions Rec Fee: 12/07/2023 10:05:24 AM Page 1 of 6 Paul Andrews, Kitsap County Auditor

RESOLUTION NUMBER

Kitsap County Public Works Sewer Utility Six-Year Capital Facilities Plan 2024-2029

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, 2024 through December 31, 2029 and,

WHEREAS, in further compliance with said RCW, the Board of Kitsap County Commissioners has held a public hearing this 27th day of November 2023,

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: 2023-2028." 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 17 day of NOVember, 2023.

BOARD OF COUNTY COMMISSIONERS KITSAP COUNTY, WASHINGTON

Charlotte Lavid

CHARLOTTE GARRIDO, Chair

KATHERINE T. WALTERS, Commissioner

CHRISTINE ROLFES, Commissioner

ATTEST:

Dana Daniels Clerk of the Board

Kitsap County Sewer Utility 6-Year Capital Facility Plan (CFP) 2024-2029

Project Purpose
A. Capacity
B. Outdated Infrastructure/Redundancy

C. Water Quality / Water Resource
D. Energy Efficiency
E. Planning

Table SS.3-1. Capital Facilities Projects and Financing 2024-2029

CFP#	Project #	Project Identification & Scope	Project Type	Project Purpôse(s)	Project Phase	2024	2	025	2026	2027	2028	2029	6-Year CFP Total	Estimated Total Project Cost**
1	PR000847	CKTP HVAC Upgrades The project is to replace the HVAC system including duct work and controls in the Admin and Process Buildings with more efficient equipment. The existing HVAC system in the Administration Bldg does not maintain the a reliable temperature required in the laboratory for accreditation. Proportionate share from Poulsbo and Keyport USN*	\r\ 	8 & D	Eng/Permitting Const/CM Total	\$ 200,000 \$ - \$ 200,000	\$	750,000 5 750,000 5	\$ - \$ 750,000 \$ 750,000	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ 200,000 \$ 1,500,000 \$ 1,700,000	\$1,750,000
2	PR001012	CKTP Solids and Liquid Hauled Waste Upgrades Long term solids improvements and development liquid hauled waste facilities. Elements of the project include adding a third digester, new thickening process, in- plant pump station, septage and FOG receiving stations, and rehabilitate an existing digester Proportionate share from Poulsbo and Keyport USN*	т	A & B	Eng/Permitting Const/CM Total	\$ 11,032,000 \$ 21,661,000 \$ 32,693,000	\$	1,833,300 30,642,700 32,476,000	\$ 1,833,300 \$ 13,398,700 \$ 15,232,000	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ 14,698,600 \$ 65,702,400 \$ 80,401,000	\$82,000,000
3	PR000859	Suquamish TP Upgrades Replace existing headworks (screening and grit removal) and construct an influent EQ tank. Replace corroded piping and obsolete valve actuators. Perform upgrades to conform to NFPA 820 fire code deficiencies.	т	В	Eng/Permitting Const/CM Total	\$ 1,796,000 \$ - \$ 1,796,000	\$	7,000,000	\$ - \$ 1,704,000 \$ 1,704,000	\$ - \$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ 1,796,000 \$ 8,704,000 \$ 10,500,000	\$10,500,000
4	NEW	CKTP Third Secondary Clarifier & Replace RAS Pumps Construct 3rd clarifier. Two clarifiers not capable of meeting Ecology redundancy requirements for the clarifiers to be capable of 75% of the peak flow with one clarifier out of service by 2028 Proportionate share from Poulsbo and Keyport USN *	т	A&B	Eng/Permitting Const/CM Total	\$ - \$ - \$ -	\$ \$		\$ - \$ - \$ -	*	\$ - \$ - \$ -	\$ 1,643,750 \$ 1,643,750	\$ 1,643,750 \$ - \$ 1,643,750	\$9,900,000
5	NEW	CKTP RAS Box Hydraulic Eval and Improvements Evaluate hydraulics at splitter box and construct improvements to eliminate short circuiting of RAS and implement flow pacing of RAS flow. Will be required if regulated to improve TIN effluent concentration consistently below 10 mg/L Proportionate share from Poulsbo and Keyport USN *	т	С	Eng/Permitting Const/CM Total	\$ - \$ - \$ -	- \$ - \$		\$ \$ \$		\$ 328,000	\$ 1,672,000 \$ 1,672,000	\$ 328,000 \$ 1,672,000 \$ 2,000,000	\$2,000,000
6	PR000586	CKTP Nutrient Process Upgrades (Methanol Tank) Construct second methanol storage tank. Required to flow pace methanol pumps and meet a 10 mg/L TIN effluent concentration. Proportionate share from Poulsbo and Keyport USN *	т	С	Eng/Permitting Const/CM Total	\$ 239,000 \$ 1,261,000 \$ 1,500,000	\$	-	\$ - \$ - \$ -	s /	\$.	\$ - \$ - \$	\$ 239,000 \$ 1,261,000 \$ 1,500,000	\$1,500,000

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

CFP#	Project #	Project Identification & Scope	Project Type	Project Purpose(s)	Project Phase	2024	2025	2026	2027	2028	2029	6-Year CFP Total	Estimated Total Project Cost**
7	PR001013	SCADA System Upgrades Long term upgrades to the Supervisory Control and Data Acquistion (SCADA) system to improve communications between all the pump stations and treatment plants. Proportionate share from Poulsbo and Keyport USN*		B	Eng/Permitting Const/CM Total	\$ 100,000 \$ - \$ 100,000	\$ 200,000 \$ - \$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ 1,746,000 \$ - \$ 1,746,000	\$3,300,000
8	NEW	CKTP Recycled Water Upgrades Complete CKTP facilities to produce recyceled water. Proportionate share from Poulsbo and Keyport USN*	7) c	Eng/Permitting Const/CM Total	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ 200,000 \$ 1,000,000 \$ 1,200,000	\$ -	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ 200,000 \$ 1,000,000 \$ 1,200,000	\$1,200,000
9	NEW	Replace KTP, STP, and MTP UV Disinfection Systems Replace Kingston TP, Suquamish TP, and Manchester TP UV disinfection systems due to obsolescence and energy inefficiency.	, (B&D	Eng/Permitting Const/CM Total	\$ - \$ - \$ -	\$ - \$ -	· \$ · · \$	\$ 441,000 \$ 2,299,000 \$ 2,740,000	\$ -	\$ - \$ - \$ -	\$ 441,000 \$ 2,299,000 \$ 2,740,000	\$2,740,000
10	PR000744	Sewer Utility Facility Plans Update Sewer Utility 20-year facility plans for all four County sewer service areas. Updates include treatment and collection/conveyance recommendations. Proportionate share from Poulsbo and Keyport USN *	T&C/C	E	Eng/Permitting Const/CM Total	\$ 200,000 \$ 200,000	\$ \$ \$	· \$ · · \$ · · \$	- \$ - \$ - \$	\$ - \$ - \$ -	\$ - \$ -	\$ 200,000 \$ - \$ 200,000	\$3,763,000
11	PR000054	Pump Station 3 Upgrades Replacement of existing PS 3 with new facility, in conjunction with Port of Silverdale, incl. Old Town Silverdale sewers. Elements of the project include a new building, wetwell, pumps, drives, motors, instrumentation controls, and electrical.	C/C	A, B, & D	Eng/Permitting Const/CM Total	\$ 400,000 \$ - \$ 400,000	\$. \$. \$	\$ 4,451,500 \$ 4,451,500			\$ - \$ - \$ -	\$ 400,000 \$ 6,451,500 \$ 6,851,500	\$8,134,000
12	PR000860	Johnson Rd to Norum Rd Pipeline Replacement The project is to replace the existing forcemain with a new upsized pipe for capacity and replace outdated material. Project includes 4,300 LF of 24-inch pipe. Poulsbo taking the lead on engineering design* Proportionate share from Poulsbo *	C/C	A&B	Eng/Permitting Const/CM Total	\$ - \$ - \$ -	\$ 6,880,000 \$ 6,880,000		\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	- \$ - - \$ - \$ -	\$ - \$ - \$ -	\$ 6,880,000 \$ 6,880,000	\$7,430,000
13	PR000064	Third Lemolo Siphon The project will construct a third siphon under Liberty Bay for capacity and redundancy. City of Poulsbo will conduct predesign and permitting effort. Proportionate share from Poulsbo *	C/C	A&B	Eng/Permitting Const/CM Total	\$ - \$	\$. \$	- \$ - \$ - \$	\$ 500,000 - \$ - \$ 500,000	15/	\$	\$ 1,103,000 \$ - \$ 1,103,000	\$8,000,000

# 4-5	Project #	Project Identification & Scope	Project Type	Project Purpose(s)	Project Phase	2024	2025		2026	2027		2028	2029	6-Year CFP Total	Estimated Total Project Cost**
T		Pump Station 4 and CK Piping Upgrades													
14	PR001014	The project will increase capacity and upgrade pump station 4 including new wetwell, pumps, drives, motors, instrumentation controls, and generator. Replace	$\langle \rangle$		Eng/Permitting	\$ -	\$ -	\$		\$		-	\$	\$ 11.050.000	\$12,164,000
-		2,050 LF of forcemain and 640 LF of gravity piping in Old Town. Silverdale and	CIC	A&B	Const/CM	\$ 5,525,000	\$ 5,525,000	\$		\$	_	\$ -	\$,	\$12,104,000
١		adjacent to Pump Station 4.	1	$\langle \rangle$	Total	\$ 5,525,000	\$ 5,525,000	\$		\$		-	\$	\$ 11,050,000	
T		Navy Yard City I&I Repair		\wedge											
5	PR000861	Repair of collection system elements to eliminate infiltration and inflow into the			Eng/Permitting	\$ -	\$ -	\$		\$	-	\$ -	\$	\$ -	\$2,400,000
1		treatment system. Various locations in Navy Yard City and Sherman Heights.	CIC	В	Const/CM	\$ 400,000	\$ 400,000	_		400,000 \$ 400,000 \$	\$ 400,000				
1				//	Total	\$ 400,000	\$ 400,000	\$	400,000	\$ 40	0,000	\$ 400,000	\$ 400,000	\$ 2,400,000	
+			/ /			V									
16	PR000059	Old Military Rd. Piping Upgrades Replacing existing sewer on Old Military Road from Steele Creek to Waaga Way to			Eng/Permitting	\$ 1,000,000	\$ 1,000,000	\$	-	\$	-	\$ -	\$	\$ 2,000,000	
"	PK000039	Replacing existing sewer on Old military Road from Steeler Creek to Waaga Way to increase capacity.	C/C	A&B	Const/CM /	.,						\$ 5,100,000	\$ 5,100,000	\$ 10,200,000	\$12,200,000
1					Total	\$ 1,000,000	\$ 1,000,000	\$	-	\$	-	\$ 5,100,000	\$ 5,100,00	\$ 12,200,000	
+									4.		_				
1		Pump Station 24 Emergency Upgrades						-			-				
		Emergency upgrades to PS 24 in north CK due to criticality and excessive lead			Eng/Permitting	\$ 900,000	\$ / -	\$		\$		\$ -	\$	\$ 900,000 \$ 3,100,000	\$4,000,000
17	PR001230	times for equipment to replace pumps, upgrade controls, and reconfigure piping and valves.	C/C	В	Const/CM	\$ 3,100,000	\$ -	\$		\$		• -	s	\$ 4,000,000	
					Total	\$ 4,000,000	•	*		*	1	•	,	4,000,000	
+		Proportionate share from Poulsbo and Keyport USN * Replace Pump Station 53 and Forcemain Replace pump station In Suquamish to increase firm capacity to approximately 1,200 gpm and replace 1,100 LF forcemain along McKinstry with 10-inch pipe.				1 /	/						, X	1 M	
- 1			C/C			1.	/	1_		s -	-		\$ 1,142,75	\$ 1,142,750	
8	NEW			A&B	Eng/Permitting	\$ -	\$ /-	\$		\$	-1	\$ - \$ -	\$ 1,142,75	\$ 1,142,730	\$6,900,000
1				A&B	Const/CM Total	\$ -	s /	\$		S	_		\$ 1,142,75	\$ 1,142,750	1
- 1				1	Total	1		1		7			L'isa		1
1															
	NEW	Replace Pump Station 54 and Forcemain Replace pump station in Suquamish to increase firm capacity to approximately			Eng/Permitting	s -	s	s	^-	\$		s -	\$ 1,114,00	\$ 1,114,000	
19	NEVV	1,200 gpm and replace 900 LF of forcemain with 10-inch diameter.	C/C	A&B	Const/CM	s -	\$	5		\$	\.	s -	\$	- \$ -	\$6,500,000
- 1			-		Total	s -	\$.	. \$		\$ /	-	s -	\$ 1,114,00	\$ 1,114,000	1
				100	The Part Live										
		Replace Pump Station 13								1 / 10 -		// /			
,	NEW	Replace aging pump station in CK maintain 400 gpm capacity. Construct all new			Eng/Permitting	s -	\$.	- \$	-	\$	-	\$ / 532,000	\$	- \$ 532,000	\$2 200 000
1		station including wet well, generator, pumps and equipment, electrical and	C/C	В	Const/CM	\$ -	\$	- \$		\$	-	\$ / -	\$ 2,668,00	2,668,000	\$3,200,000
1		controls.		1	Total	\$ -	\$.	- \$	-	\$	-/	\$ 532,000	\$ 2,668,00	\$ 3,200,000	
					77 771							1 /			
		Replace Pump Station 41 and Upsize Forcemain			1			1		\ \ \ \ \ \			1 //		
,	NEW	Replace Kingston pump station with firm capacity of 630 gpm. Replace 1400 LF			Eng/Permitting	\$ -	\$	- \$	600,000	\$	V -	\$ -	\$	\$ 600,000	\$3,700,000
		with 8-inch diameter forcemain along West Kingston Rd. Install standby generator.	C/C	A&B	Const/CM	\$ -	\$	- \$		\$ 3,10	00,000	\$ -	\$	- \$ 3,100,000	\$3,700,000
1		LS is 50 years old and is directly on the Appletree Cove shoreline.			Total	\$ -	\$	- \$	600,000		00,000		\$	- \$ 3,700,000	
1			1	1		1						^			1

CFP#	Project #	Project Identification & Scope	Project Type	Project Purpose(s)	Project Phase	2024	2025	2026	2027	2028	2029	6-Year CFP Total	Estimated Total Project Cost**
22	NEW	Pump Station 71 Upgrade and Upsize Forcemain Upgrade pump station to firm capacity of 790 gpm. Upgrade mechanical, electrical, instrumentation, and and contols. Replace 9,500 LF forcemain along West Kingston Rd with 8-inch diameter.	c/c	A&B	Eng/Permitting Const/CM Total	\$ - \$ - \$ -	\$ - \$ - \$ -	\$ - \$ -	\$ 1,233,000 \$ - \$ 1,233,000	\$ 6,167,000		\$ 1,233,000 \$ 6,167,000 \$ 7,400,000	\$7,400,000
Tot	tals			γ		\$ 47,814,000	\$ 54,231,000	\$ 24,537,500	\$ 10,588,000	\$ 13,551,000	\$ 13,950,500	\$ 164,672,000	\$200,681,000

Costs:			^		The state of					
Capacity Projects Non-capacity Projects		7	\$	39,618,000 \$ 8,196,000 \$	45,881,000 \$ 8,350,000 \$	20,283,500 \$ 4,254,000 \$	6,833,000 \$ 3,755,000 \$	11,870,000 \$ 1,681,000 \$	9,000,500 \$ 4,950,000 \$	133,486,000 31,186,000
Total Project Costs			\$	47,814,000 \$	54,231,000 \$	24,537,500 \$	10,588,000 \$	13,551,000 \$	13,950,500 \$	164,672,000
		/ /								

evenues:										
Sewer Revenue Bonds			1-	\$	35,000,000	\$ 15,000,000	\$ -	\$ -	\$ -	\$ 50,000,000
DOE State Revolving Fund Loan	(\$	9,	,850,000	\$	/// -	\$ - 5	\$ -	\$ -	\$ -	\$ 9,850,000
DOE Puget Sound Nutrient Reduction Grant	\$		100,000	\$ /	-	\$ - 5	\$ -	\$ -	\$ -	\$ 100,000
Department of Defense Grant	\$		/-	\$ /	-	\$ - 3	\$ -	\$ -	\$ -	\$ 100
Public Works Trust Fund Loan	\$	/5,	,000,000	\$	5,000,000	\$ - 3	\$ -	\$ -	\$ -	\$ 10,000,00
City of Poulsbo Proportionate Share	\$	- 8,	,063,648	\$ /	12,227,189	\$ 2,848,842	\$ 623,000			25,220,62
USN Keyport Proportionate Share	\$	1,	,239,009	\$/	890,307	\$ 474,332	\$ 20,480	\$ 24,942		2,766,47
Sewer Fees/Construction Fund	\$	23,	,561,342	\$	1,113,504	\$ 6,214,326	\$ 9,944,521	\$ 12,773,258	\$ 13,127,943	\$ 66,734,89

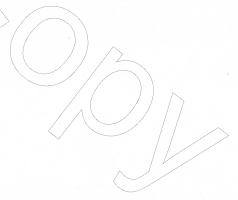
* The City of Poulsbo will pay a proportianate share of the cost of the following projects in accordance with the sewer service contact with Kitsap County CKTP Projects - 20%

Lemolo Shores and Lemolo Siphon - 100.0% Pump Station 24 Emergency Upgrades - 61.8%

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

Pump Station 24 Emergency Upgrades - 7.7%

The estimated total project costs include costs prior to and after the 2024 to 2029 time frame.



Kitsap County Sewer Utility Division Proposed Capital Facility Plan (2024-2029) Project Locations Pump Station 71 Upgrade and Upsize Forcemain - All Service Areas -Sewer Utility Facility Plans Replace Pump Station 41 and Upsize Forcemain SCADA Systems Upgrades Replace KTP, STP amd MTP **UV Disinfection Systems** Replace Pump Station 54 and Forcemain Kingston Replace Pump Station 53 and Forcemain Johnson Rd to Norum Rd Pipeline Replacement Suquamish TP Upgrades Third Lemolo Siphon **CKTP Third Secondary Clarifier** Pump Station 24 Emergency Upgrades & Replace RAS Pumps **CKTP Nutrient Process** JEFFERS OPUMP Station 4 and CK Piping Upgrades Upgrades (Methanol Tank) CKTP Solids and Liquid Hauled Waste Upgrades COUNTY Pump Station 3 Upgrades CKTP RAS Box Hydraulic Eval and Improvements Ban CKTP Recycled Water Upgrades CKTP HVAC Upgrades Replace Pump Station 13 CA HOOD Old Military Rd. Piping Upgrades Navy Yard City 1&1 Repair Bremerton Port Orchard MASON COUNTY MASON COUNTY Designated Urban Growth Areas egend **Commissioner Districts** South 2024 Projects Proposed Project PIERCE COUNT