

- 2024 Comprehensive Plan Update

# DRAFT CAPITAL FACILITIES PLAN

## KITSAP COUNTY

December 2023



Prepared for:  
Kitsap County  
Department of Community Development

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# TABLE OF CONTENTS

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- 1 PLAN FOUNDATION..... 1
  - 1.1 The capital facility plan ..... 1
  - 1.2 Relationship to the comprehensive plan and future land use plan ..... 3
  - 1.3 Foundation documents ..... 4
- 2 COMPREHENSIVE CAPITAL FACILITY PLAN ..... 5
  - 2.1 Study area and inventory ..... 5
  - 2.2 Completed projects..... 7
  - 2.3 Projected funding..... 7
  - 2.4 Proposed projects and relationship to growth..... 8
  - 2.5 Levels of service Impacts..... 8
  - 2.6 Capital projects and prioritization ..... 8
  - 2.7 Reassessment policy..... 9
- 3 REVENUE ANALYSIS ..... 10
  - 3.1 Introduction..... 10
  - 3.2 Assumptions..... 11
  - 3.3 Dedicated capital revenues..... 12
  - 3.4 General capital revenues..... 31
  - 3.5 Total capital revenues..... 33
  - 3.6 Potential policy options and other funding sources ..... 33
  - 3.7 Projected project funding..... 35
  - 3.8 Other service providers..... 40
- 4 SERVICE AREA AND INFRASTRUCTURE DETAIL..... 40
  - 4.1 Administration: public buildings..... 40
  - 4.2 Public safety: law enforcement..... 45
  - 4.3 Public safety: fire protection ..... 48
  - 4.4 Parks and recreation..... 68
  - 4.5 Schools..... 73
  - 4.6 Solid waste..... 87
  - 4.7 Stormwater ..... 91
  - 4.8 Transportation ..... 96
  - 4.9 Wastewater: sanitary sewer ..... 104
  - 4.10 Water..... 121

# LIST OF EXHIBITS

---

Exhibit 1-1. Capital Facilities Plan (CFP) Update Process.....	2
Exhibit 1-2. Capital Facilities and Services Addressed .....	2
Exhibit 1-3. County Population Growth .....	4
Exhibit 2-1. Plan Study Area.....	6
Exhibit 2-3 Interim Capital Project Prioritization Criteria .....	9
Exhibit 3-1. Kitsap County Road Levy Estimated Future Revenues (2024-2044 in YOE\$).....	13
Exhibit 3-2. Kitsap County Motor Vehicle Fuel Tax Revenues Allocated for Capital (2024-2044 in YOE\$). .....	14
Exhibit 3-6. Kitsap County Federal Transportation Grant Revenues Allocated for Capital Projects (2022 – 2044 in YOE\$) .....	20
Exhibit 3-7. Projected Federal Transportation Grant Revenues for Capital Projects (2024 – 2044 in YOE\$) .....	20
Exhibit 3-8. Projected Total Transportation Revenues Allocation for Capital (2024 – 2044 in YOE\$) .....	21
Exhibit 3-9. Kitsap County Park Impact Fees (2014 – 2044 YOE\$) .....	22
Exhibit 3-10. Kitsap County Park Impact Fee Revenues (2024 – 2044 YOE\$).....	22
Exhibit 3-11. Kitsap County Conservation Future Tax Revenues (2016 -2044 YOE\$).....	23
Exhibit 3-12. Projected Kitsap County Conservation Futures Tax Revenues (2024 – 2044 in YOE\$) .....	24
Exhibit 3-13. Kitsap County Parks Grants and Donations Revenues (2014 – 2044 in YOE\$). 25	
Exhibit 3-14. Projected Kitsap County Parks Grants and Donations Revenues (2024-2044 in YOE\$) .....	25
Exhibit 3-15. Projected Total Kitsap County Revenues Dedicated to Parks Capital Projects (2024-2044 in YOE\$) .....	26
Exhibit 3-16. Kitsap County Sewer Connection Fees Allocated for Capital 2024-2044 (in thousands YOE\$).....	27
Exhibit 3-17. Projected Sewer Capital Revenues from the City of Poulsbo and USN Keyport Base for 2024-2044 (YOE\$) .....	28
Exhibit 3-18. Total Projected Sewer Revenues Estimated for Capital 2024-2044 (YOE\$) .....	28
Exhibit 3-19. Projected Surface and Stormwater Management Grant Revenues (2024 – 2044 in YOE\$) .....	29

Exhibit 3-20. Kitsap County Surface and Stormwater Management Fee Revenues Allocated to Capital (2024 – 2044 in YOE\$).....	30
Exhibit 3-21. Projected Kitsap County Surface and Stormwater Management Fee Revenues Allocated to Capital (2024 – 2044 in YOE\$) .....	30
Exhibit 3-22. Projected Total Kitsap County Revenues Allocated to Stormwater Capital Projects (2024 – 2044 in YOE\$) .....	31
Exhibit 3-23. Projected Kitsap County Real Estate Excise Tax Revenues (2024-2044 in YOE\$).....	32
Exhibit 3-24. Projected Total Kitsap County Capital Revenues (2024-2044 in YOE\$).....	33
Exhibit 3-25. Estimated Capital Project Costs by Category (2024-2029 in YOE\$).....	36
Exhibit 3-29. Estimated Transportation Dedicated Capital Revenues and Costs (2024- 2029 in YOE\$) .....	36
Exhibit 3-30. Estimated Parks and Recreation Dedicated Capital Revenues and Costs (2024-2029 in YOE\$) .....	37
Exhibit 3-31. Estimated Stormwater Management Dedicated Capital Revenues and Costs (2024-2029 in YOE\$) .....	37
Exhibit 3-32. Estimated Sewer Dedicated Capital Revenues and Costs (2024-2029 in YOE\$).....	38
Exhibit 3-33. Estimated Solid Waste Dedicated Capital Revenues and Costs (2024-2029 in YOE\$).....	38
Exhibit 3-34. Estimated General Capital Revenues and Costs (2024-2029 in YOE\$).....	39
Exhibit 4-1 County Public Buildings: Current Facilities Inventory .....	40
Exhibit 4-2 County Administration Buildings: LOS Requirements Analysis .....	41
Exhibit 4-3 Potential LOS Adjustments for County Administration Buildings .....	41
Exhibit 4-4 LOS Requirements Analysis - County Maintenance Facilities .....	42
Exhibit 4-5 LOS Requirements Analysis - County District Courtrooms .....	42
Exhibit 4-6 LOS Requirements Analysis - County Superior Courtrooms.....	43
Exhibit 4-7 LOS Requirements Analysis – Juvenile Jail Facility.....	43
Exhibit 4-8 LOS Requirements Analysis - County Community Centers.....	43
Exhibit 4-9 Public Buildings Capital Facilities Projects, 2024-2044 (All numbers in 2023 \$1000s) .....	44
Exhibit 4-10 Public Buildings Capital Facilities Project Costs, 2024-2044 (All numbers in 2023 \$1000s).....	45

Exhibit 4-11 Public Buildings Capital Facilities Revenue Sources, 2024-2044 (All numbers in 2023 \$1000s).....	45
Exhibit 4-12 Inventory of Law Enforcement Facilities.....	46
Exhibit 4-13 Level of Service Analysis - Sheriff's Office.....	47
Exhibit 4-14. Potential LOS Adjustments for Sheriff's Office.....	47
Exhibit 4-15 Level of Service- County Jail Facilities.....	47
Exhibit 4-17 Staffed and Volunteer Stations Numbers.....	49
Exhibit 4-18 Current Facilities of Each Fire District.....	50
Exhibit 4-19 Response Times by Fire Department and District.....	50
Exhibit 4-20 Inventory of Current Facilities - Central Kitsap Fire and Rescue.....	52
Exhibit 4-21 Level of Service Analysis of Emergency Services.....	54
Exhibit 4-22. Central Kitsap Fire and Rescue Capital Projects (All numbers are in 2024 \$1000s).....	54
Exhibit 4-23. Central Kitsap Fire and Rescue Capital Project Costs (All numbers are in 2024 \$1000s).....	55
Exhibit 4-24 Central Kitsap Fire and Rescue Capital Project Revenues (All numbers are in 2024 \$1000s).....	55
Exhibit 4-25 Inventory of Current Facilities - North Kitsap Fire and Rescue.....	56
Exhibit 4-26 Level of Service Analysis- North Kitsap Fire and Rescue.....	56
Exhibit 4-27 North Kitsap Fire and Rescue Capital Projects (All numbers in 2024 \$1000s) ..	57
Exhibit 4-28 North Kitsap Fire and Rescue Capital Project Costs (All numbers in 2024 \$1000s).....	58
Exhibit 4-29 North Kitsap Fire and Rescue Capital Project Revenues (All numbers in 2024 \$1000s).....	58
Exhibit 4-30 Inventory of Current Facilities - South Kitsap Fire and Rescue.....	59
Exhibit 4-31 Level of Service Analysis - South Kitsap Fire and Rescue.....	60
Exhibit 4-32. South Kitsap Fire and Rescue Capital Projects (All numbers are in 2024 \$1000s).....	61
Exhibit 4-33. South Kitsap Fire and Rescue Capital Project Costs (All numbers are in 2024 \$1000s).....	61
Exhibit 4-34 South Kitsap Fire and Rescue Capital Project Revenues (All numbers are in 2023 \$1000s).....	61
Exhibit 4-35 Inventory of Current Facilities - Bremerton Fire Department.....	62

Exhibit 4-36 Level of Service Analysis – Bremerton Fire Department.....	63
Exhibit 4-37. Bremerton Fire Department Capital Projects (All numbers are in 2023 \$1000s) .....	63
Exhibit 4-38. Bremerton Fire Department Capital Project Costs (All numbers are in 2023 \$1000s) .....	63
Exhibit 4-39. Bremerton Fire Department Capital Project Revenues (All numbers are in 2023 \$1000s).....	64
Exhibit 4-40 Inventory of Current Facilities – Poulsbo Fire Department.....	64
Exhibit 4-41 Level of Service Analysis – Poulsbo Fire Department.....	65
Exhibit 4-42. Poulsbo Fire Department Capital Projects (All numbers in 2024 \$1000s).....	65
Exhibit 4-43. Poulsbo Fire Department Capital Projects Cost (All numbers in 2024 \$1000s)	66
Exhibit 4-44. Poulsbo Fire Department Capital Projects Revenues (All numbers in 2024 \$1000s) .....	67
Exhibit 4-45 Inventory of Current Facilities – Bainbridge Island Fire Department.....	67
Exhibit 4-46 Level of Service Analysis – Bainbridge Island Fire Department.....	68
Exhibit 4-47 Bainbridge Island Fire Department Capital Projects (All numbers in 2024 \$1000s) .....	68
Exhibit 4-48 Bainbridge Island Fire Department Capital Projects Cost (All numbers in 2024 \$1000s).....	69
Exhibit 4-49 Bainbridge Island Fire Department Capital Projects Revenues (All numbers in 2024 \$1000s).....	69
Exhibit 4-50 County-Owned Parks, Shoreline Access, and Trails.....	70
Exhibit 4-51 County-Owned Active Recreation Facilities (Units).....	70
Exhibit 4-52 County-Owned Passive Recreation Facilities (Units).....	70
Exhibit 4-53 Target LOS Requirement Analysis – Natural Resource Areas.....	71
Exhibit 4-54 Parks Capital Projects (All numbers in 2024 \$1000s) .....	71
Exhibit 4-55 Parks Capital Projects Cost (All numbers in 2024 \$1000s).....	73
Exhibit 4-56 Parks Capital Projects Revenues (All numbers in 2024 \$1000s).....	73
Exhibit 4-57 School District Boundaries.....	74
Exhibit 4-58 Enrollment Capacity – North Kitsap Schools.....	75
Exhibit 4-59 North Kitsap School District Capital Projects and Revenues, (All numbers are in 2024 \$1000s).....	77
Exhibit 4-60 Enrollment Capacity – Central Kitsap School District .....	77

Exhibit 4-61 Level of Service Analysis – Central Kitsap School District.....	79
Exhibit 4-62 Central Kitsap School District Capital Projects Costs (All numbers are in 2023 \$1000s) .....	79
Exhibit 4-63 Central Kitsap School District Capital Project Costs (All numbers are in 2023 \$1000s) .....	80
Exhibit 4-64 Central Kitsap School District Capital Project Revenues (All numbers are in 2023 \$1000s).....	80
Exhibit 4-65 Enrollment Capacity – Bremerton School District.....	81
Exhibit 4-66 Level of Service Analysis – Bremerton School District.....	82
Exhibit 4-67 Bremerton School District Capital Projects (All numbers are in 2024 \$1000s) .	83
Exhibit 4-68 Bremerton School District Capital Project Cost (All numbers are in 2024 \$1000s) .....	83
Exhibit 4-69 Bremerton School District Capital Project Revenues (All numbers are in 2024 \$1000s) .....	84
Exhibit 4-70 Enrollment Capacity – South Kitsap School District.....	84
Exhibit 4-71 Level of Service Analysis – South Kitsap School District.....	86
Capital Projects and Funding (All numbers are in 2024 \$1000s).....	86
Exhibit 4-72 SKSD Capital Project Cost (All numbers are in 2024 \$1000s) .....	87
Exhibit 4-73 SKSD Capital Project Revenues (All numbers are in 2024 \$1000s).....	87
Exhibit 4-74 Inventory of Current Facilities – Solid Waste.....	88
Exhibit 4-75 Solid Waste Management Disposal and Recycling Rate.....	89
Exhibit 4-76 Kitsap County Solid Waste Capital Projects (All numbers are in 2024 \$1000s).	90
Exhibit 4-77 Kitsap County Solid Waste Capital Project Costs (All numbers are in 2024 \$1000s) .....	91
Exhibit 4-78 Kitsap County Solid Waste Capital Project Revenues (All numbers are in 2024 \$1000s) .....	91
Exhibit 4-79 Inventory of Current Facilities - Stormwater .....	92
Exhibit 4-80 Kitsap County Stormwater Capital Projects (All numbers are in 2024 \$1000s) 95	
Exhibit 4-81 Kitsap County Stormwater Capital Project Costs (All numbers are in 2024 \$1000s) .....	95
Exhibit 4-82 Kitsap County Stormwater Capital Project Revenues (All numbers are in 2024 \$1000s).....	96
Exhibit 4-83 Federal Functional Classifications.....	96



Exhibit 4-84 County Roadway Inventory.....	97
Exhibit 4-85 Level of Service - County Roadway Inventory .....	100
Exhibit 4-86 Transportation Capital Improvement Projects (All numbers are in 2024 \$1000s) .....	101
Exhibit 4-87 Transportation Capital Improvement Revenue Sources (All numbers are in 2024 \$1000s).....	104
Exhibit 4-88 Wastewater Service Areas.....	106
Exhibit 4-89 Inventory of Current Facilities – City of Bremerton .....	109
Exhibit 4-90 Bremerton Solid Waste Capital Projects (All numbers are in 2024 \$1000s)....	109
Exhibit 4-91 Inventory of Current Facilities – City of Port Orchard .....	110
Exhibit 4-92 Port Orchard Capital Projects (All numbers are in 2014\$1000s).....	110
Exhibit 4-93 Inventory of Current Facilities – City of Poulsbo .....	111
Exhibit 4-94 City of Poulsbo Sewer Capital Projects (All numbers are in 2024 \$1000s) .....	111
Exhibit 4-95 City of Poulsbo Sewer Capital Project Costs (All numbers are in 2024 \$1000s) .....	112
Exhibit 4-96 City of Poulsbo Sewer Capital Project Revenues (All numbers are in 2024 \$1000s) .....	112
Exhibit 4-97 Inventory of Current Facilities – West Sound Utility District .....	113
Exhibit 4-98 WSUD Sewer Capital Projects (All numbers in 2024 \$1000s).....	114
Exhibit 4-99 WSUD Sewer Capital Projects Cost (All numbers in 2024 \$1000s).....	114
Exhibit 4-100 WSUD Sewer Capital Projects Revenues (All numbers in 2024 \$1000s).....	115
Exhibit 4-101 Inventory of Current Facilities – Port of Bremerton .....	115
Exhibit 4-102 Inventory of Current Facilities – Kitsap County Sanitary Sewer Facilities .....	116
Exhibit 4-103 Kitsap County Sewer Capital Projects (All numbers are in 2024 \$1000s).....	119
Exhibit 4-104 Kitsap County Sewer Capital Project Costs (All numbers are in 2024 \$1000s) .....	120
Exhibit 4-105 Kitsap County Sewer Capital Project Revenues (All numbers are in 2024 \$1000s) .....	120
Exhibit 4-106 Inventory of Current Facilities - Water .....	123
Exhibit 4-107 Water Demand Projections (in mgd) from the CWSP .....	127
Exhibit 4-108 WSUD Water Capital Project Costs (All numbers are in 2022 \$1000s).....	127
Exhibit 4-109 WSUD Water Capital Project Revenues (All numbers are in 2024 \$1000s) ...	131

# 1 PLAN FOUNDATION

## 1.1 THE CAPITAL FACILITY PLAN

The purpose of this Capital Facility Plan (CFP) is to meet the requirements of the Growth Management Act (GMA) to identify capital improvements and associated funding that support the County's land use plan and growth targets for the period 2024-2044. Investing in capital facilities will help support the community's quality of life in urban and rural areas by ensuring responsive public safety services, access to parks and recreation, coordination of schools with student growth, necessary water supply, and wastewater treatment, stormwater management, and other important services. Providing quality facilities can also attract economic investment to Urban Growth Areas (UGAs) where denser employment and housing opportunities are desired.

### Infrastructure and Services Addressed in the Capital Facility Plan

The CFP contains an inventory of each facility and associated service, level of service standards, revenue projections, and capital costs, and descriptions of how facilities are to be funded. Of particular focus are facilities needed to support urban growth in UGAs. The components of the CFP are illustrated in Exhibit 1-1.

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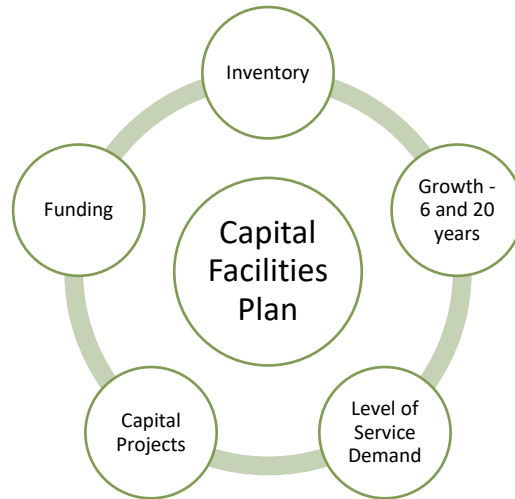
### Requirements for the Capital Facilities Plan

GMA specifies that the capital facilities element should consist of a) an inventory of existing capital facilities owned by public entities; b) a forecast of the future needs for capital facilities; c) the proposed locations and capacities of expanded or new capital facilities; d) a six-year capital facilities plan that will finance capital facilities within projected funding capacities and clearly identifies sources of public money for such purposes; and e) a requirement to reassess the land use element if probable funding falls short of existing needs. (RCW 36.70a.070 (3))

Recent Growth Management Hearings Board cases have placed more importance on the preparation and implementation of CFPs. The key points include:

- Capital facilities plans should address the 20-year planning period and be consistent with growth allocations assumed in the Land Use Element.
  - Capital facilities plans should also demonstrate an ability to serve the full UGA. Existing un-served areas in the UGA must be addressed as well as new UGA expansion areas.
  - Financial plans should address at least a six-year period and funding sources should be specific and committed. The County should provide a sense of the funding sources for the 20-year period, though it can be less detailed than for the six-year period.
-

### Exhibit 1-1. Capital Facilities Plan (CFP) Update Process



According to WAC 365-196-415, the inventory and analysis of capital facilities must include, at a minimum: water systems, sewer systems, stormwater systems, reclaimed water facilities, schools, parks and recreation facilities, police facilities, and fire facilities. This CFP addresses the capital facilities and services listed in Exhibit 1-2.

### Exhibit 1-2. Capital Facilities and Services Addressed

Capital Facility and Service Topic	Providers to Unincorporated UGAs and Rural Areas
Administration: Public Buildings	Kitsap County
Public Safety: Law Enforcement	Kitsap County
Public Safety: Fire Protection	North Kitsap Fire District, Central Kitsap Fire District, City of Bremerton, South Kitsap Fire District, Poulsbo Fire Department / District 18, Bainbridge Island
Parks and Recreation	Kitsap County
Schools	North Kitsap School District, Central Kitsap School District, Bremerton School District, South Kitsap School District
Solid Waste	Kitsap County
Stormwater	Kitsap County
Transportation	Kitsap County
Wastewater: Sanitary Sewer	Kitsap County, Cities, and Special Districts
Reclaimed Water	Kitsap County, Cities, and Special Districts
Water	Cities and Special Districts

Source: LDC Inc, 2023

## 1.2 RELATIONSHIP TO THE COMPREHENSIVE PLAN AND FUTURE LAND USE PLAN

### County Services and Planning Responsibilities

Capital facilities generally have a long useful life and include County and non-County operated infrastructure, buildings, and equipment. The County's definition of a capital asset is:

*Capital Assets typically include land, machinery and buildings, and are further defined as assets whose benefits are realized over future fiscal periods. (Kitsap County Auditor)*

Capital facilities planning does not cover regular operation and maintenance, but it does include major repair, rehabilitation, or

The County is responsible for allocating growth and designating Urban Growth Areas (UGA). UGAs must include cities and land characterized by urban uses that are needed to support growth allocations. UGAs must be supported by public facilities and services. (RCW 36.70A.110)

The County is also responsible for the services it provides both countywide and in unincorporated areas, including governmental administration, criminal justice and law enforcement, transportation, stormwater, solid waste, and sanitary sewer.

Beyond considering its own services, the County is charged with ensuring that other municipalities serving UGAs and rural areas have adequate services and facilities, particularly those necessary to serve growth. These include cities and special districts providing water, sewer, fire protection, and schools. For some services the County collects impact fees, which are based on the needs identified in this Plan; these services include roads, parks, and schools. The County also addresses impacts of growth through SEPA mitigation fees, such as for fire districts.

### Land Use and Growth Assumptions

Per WAC 365-196-415, the CFP "should forecast needs for capital facilities during the planning period, based on the levels of service or planning assumptions selected and consistent with the growth, densities, and distribution of growth anticipated in the land use element."

Kitsap County updated its Comprehensive Plan for the 2024-2044 period. The Update includes consideration of growth and land use alternatives. The County selected a Preferred Alternative growth plan after a series of public hearings and consideration of policy and environmental factors (see the Kitsap County 2024 Comprehensive Plan Update Environmental Impact Statement 2024).

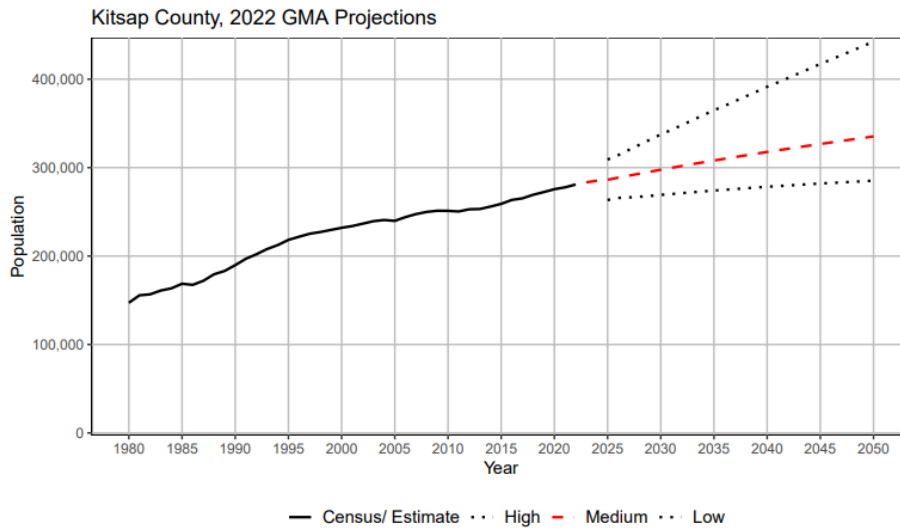
### Exhibit 1-3. County Population Growth

Topic	All Alternatives
Countywide Population: 2022*	280,900
Unincorporated Population: 2022	182,040
Countywide Population: 2044**	346,358
Unincorporated Population: 2044**	210,609

\*Source: Office of Financial Management (OFM) 2022 GMA Projections

\*\*Source: 2020 Census Redistricting File, PSRC 2018 Regional Forecast, VISION 2050 regional growth strategy adopted per General Assembly action 10-30-2020

### Exhibit 1-4. Population Growth Estimates and Projections: Base Year, 2029, and 2044



Source: OFM Forecasting & Research Division, Dec 2022

For coordination purposes, alternative population forecasts were projected in a range and distributed to capital facility providers throughout the county. Capital facility providers were provided year 2022 and 2044 forecasts by transportation analysis zones that could be aggregated to generally approximate service area boundaries.

## 1.3 FOUNDATION DOCUMENTS

The documents used for preparation of the CFP are the capital facility and capital improvement plans prepared routinely by the Kitsap County, which are required for obtaining funding. The following documents are incorporated by reference:

- Budget including Capital Improvement Plan, 2023
- Transportation Improvement Program, 2024-2029

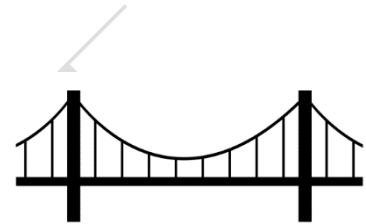
- Stormwater Management Program, 2023
- Solid Waste Division Capital Facility Plan (CFP) 2022-2027
- Sewer Utility 6-Year Capital Facility Plan (CFP) 2023-2028
- Kitsap County Nonmotorized Facility Plan, 2013
- Kitsap County Parks, Recreation & Open Space Plan 2024

In addition, functional plans for non-County service providers are also reviewed and incorporated by reference, as appropriate.

## 2 COMPREHENSIVE CAPITAL FACILITY PLAN

### 2.1 STUDY AREA AND INVENTORY

Kitsap County encompasses approximately 395 square miles of land. See Exhibit 2-1. This CFP addresses all unincorporated portions of Kitsap County – both unincorporated UGAs and rural areas total approximately 319 square miles. UGAs include cities, totaling about 78 square miles, and unincorporated UGAs, at about 31 square miles. Three cities (Poulsbo, Bremerton, and Port Orchard) are surrounded by UGAs. Current unincorporated UGAs are: Kingston, Silverdale, Poulsbo, Central Kitsap, Bremerton UGA (East, West and Gorst), and Port Orchard. In the future, UGAs may incorporate into new communities or annex to existing cities depending on property owner or voter approvals. Outside of urban areas, rural lands include rural residential, rural industrial, and rural commercial areas, as well as lands for forestry, mining, and agriculture.

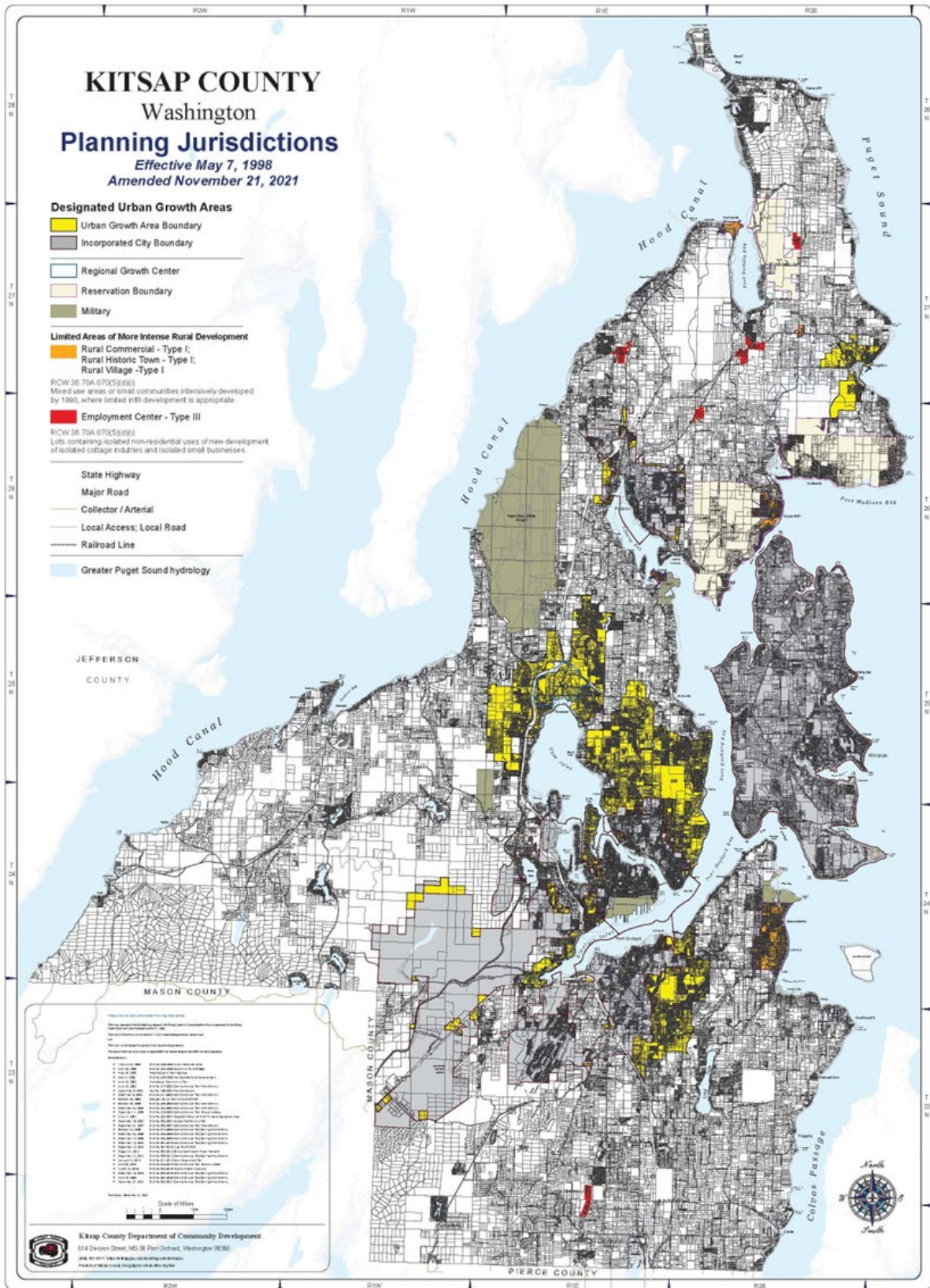


The incorporated cities of Bremerton, Port Orchard, Poulsbo, and Bainbridge Island are responsible for maintaining their individual GMA comprehensive plans, which must be consistent with the County's Plan. The County's planning process, however, includes consultation and coordination with these jurisdictions. Where these cities provide services to unincorporated UGAs, their facility plans are addressed in this CFP.

Further, school, fire protection, water, wastewater, and other special districts serve areas in urban and rural areas.

Current inventories of land, machinery, and buildings in the study area are addressed by service provider in Chapter 4. As appropriate, maps are provided.

Exhibit 2-1. Plan Study Area



## 2.2 COMPLETED PROJECTS

Following the adoption of the 2016 CFP, Kitsap County has made investments in land, buildings, and infrastructure. Annually, the Kitsap County Auditor prepares a financial report including capital asset investments. 2021 and 2022 reports show significant investment in infrastructure. See Exhibit 2-2.

**Exhibit 2-2. Capital Investments 2021-2022 (in Millions)**

Investment Type	2021	2022
Land	\$83.27	\$86.24
Infrastructure	\$578.68	\$579.38
Building	\$202.40	\$199.80
Building Improvements	\$208.21	\$209.92
Machinery & Equipment	\$77.87	\$80.88
Construction in Progress	\$56.64	\$87.35
Total Investment	\$1,207.07	\$1,243.58
Total Net Investment	\$570.29	\$582.67

*Source: Kitsap County Auditor, 2021; Kitsap County Auditor, 2022*

Some capital projects highlighted in 2022 include:

- Bangor Keyport Force main replacement \$8.96 million
- Timber rights purchased for conservation purposes \$4.87 million
- Updated equipment rental fleet \$4.18 million

The 2021 report highlighted the following accomplishments:

- Infrastructure Projects \$11.14 million
- Sewer system updates \$3.95 million
- Updated equipment rental fleet \$2.37 million

## 2.3 PROJECTED FUNDING

The CFP uses sound fiscal policies to provide adequate public facilities consistent with the land use element. In Chapter 3, the CFP presents revenue projections and compares dedicated capital dollars to identified capital costs. Where there are gaps between dedicated capital funds and the capital program, the revenue analysis identifies the potential ability to fill gaps with other funding sources. For each service area the CFP identifies funding sources for each capital project. As part of the annual budget, the County adopts a more detailed six-year capital improvement program implementing the CFP.



Chapter 3 includes a revenue analysis of dedicated capital funds, potential gaps in funding, and means to expand or add funding.

## **2.4 PROPOSED PROJECTS AND RELATIONSHIP TO GROWTH**

Chapter 4 of this plan provides proposed capital projects intended to maintain existing investments and add investments to support growth. Planned County projects address public safety, courtrooms, parks, trails, community centers, roads, regional stormwater facilities, and sewer collection and treatment facilities.

## **2.5 LEVELS OF SERVICE IMPACTS**

Levels of service (LOS) are established in the CFP and represent quantifiable measures of capacity. They are minimum standards adopted by the County or special district providers to provide capital facilities and services to the community at a certain level of quality and within the financial capacity of the County or special district provider. Examples of LOS measures include: roadway volumes to capacities, acres of parks per 1,000 population, gallons of water per capita per day, and others.

The CFP outlines the LOS impacts of growth for the County both to 2029, and in a longer-term review to 2044. A detailed review of each County service, as well as LOS analysis for non-county-provided facilities, is contained in Chapter 4 Service Area and Infrastructure.

## **2.6 CAPITAL PROJECTS AND PRIORITIZATION**

Based on adopted or alternative levels of service presented in Chapter 4, a series of capital projects is proposed for the six-year and 20-year periods. As described in Chapter 3, dedicated capital funds are limited and there is a gap between dedicated funds and capital costs for many of the County's service areas. Means to fill gaps with other funding sources are described. However, in consideration of limited resources, another means to aligning funds to projects is to prioritize projects around prioritization principles. It is recommended that Kitsap County convene representatives of Public Works, Sheriff, Administration, Community Development, Auditor and others to develop a coordinated set of principles and a process to evaluate and prioritize capital projects, particularly those that share related funding sources. The Capital Facilities Element of the Comprehensive Plan provides general guidance on prioritization of capital facilities improvements. Some additional interim prioritization principles are listed below for consideration in this Capital Facilities Plan.

### Exhibit 2-3 Interim Capital Project Prioritization Criteria

Principle	Criteria
<b>Vision</b>	<ol style="list-style-type: none"> <li>1. Does the project support the Kitsap County Comprehensive Plan Vision?</li> <li>2. Does the project implement an approved functional plan?</li> </ol>
<b>Existing commitments</b>	<ol style="list-style-type: none"> <li>3. Are there agreements or other official commitments in place or is a substantial amount of work already complete?</li> </ol>
<b>Leverage existing system</b>	<ol style="list-style-type: none"> <li>4. Does the project help complete the existing system in the County or subarea?</li> <li>5. Does the project improve the quality of existing facilities?</li> </ol>
<b>Available maintenance resources</b>	<ol style="list-style-type: none"> <li>6. Are long-term sustainable maintenance resources available?</li> <li>7. Does a project scope or timing help avoid major maintenance costs down the road?</li> </ol>
<b>Funding and partnerships</b>	<ol style="list-style-type: none"> <li>8. Does the project require specific timeframes of partner participation or is it eligible for specific grants?</li> <li>9. Does the proposal represent a unique funding opportunity?</li> <li>10. Is the project drawing from entrepreneurial opportunity with a long-term capital or program funding stream?</li> </ol>
<b>Best provider</b>	<ol style="list-style-type: none"> <li>11. Is the County the best provider of the facility or service?</li> </ol>
<b>Benefits outweigh cost</b>	<ol style="list-style-type: none"> <li>12. Is there a substantial benefit in relation to cost of the facility service?</li> </ol>
<b>Equity</b>	<ol style="list-style-type: none"> <li>13. Is there a fair distribution of investment and benefits among different communities?</li> <li>14. Does the project provide added facilities or services to meet the needs of underserved populations?</li> </ol>
<b>Community support</b>	<ol style="list-style-type: none"> <li>15. Does the project have the support of the community? Will it benefit a significant number of persons in the community?</li> </ol>

Source: Kitsap County, 2023

## 2.7 REASSESSMENT POLICY

Those facilities and services necessary to support growth should have LOS standards. The County must reassess the land use element and other elements of the comprehensive plan if the probable funding falls short of meeting the need for facilities that are determined by a county or city to be necessary for development.

Growth, LOS standards, and a funded capital improvement program are to be in balance. In the case where the LOS cannot be met by a particular service or facility, the jurisdiction could do one of the following: 1) add proposed facilities within funding resources, 2) reduce demand through demand management strategies, 3) lower LOS standards, 4) phase growth, or 5) change the land use plan. In the case of transportation, the County would

have to deny development that would cause LOS to decline below the adopted standards unless transportation facilities can be implemented at the time of development or within six years: "concurrent with the development" means that improvements or strategies are in place at the time of development, or that a financial commitment is in place to complete the improvements or strategies within six years." (RCW 36.70A.070(6))

## 3 REVENUE ANALYSIS

### 3.1 INTRODUCTION



This chapter discusses Kitsap County's capital facilities revenues for County-provided facilities and services. The purpose of this financial analysis is to understand the fiscal constraints of the Kitsap County CFP. These revenue estimates were developed to assist in project planning but are not intended to be precise forecasts. Exact funding levels are difficult to predict given the uncertainties of funding sources; high sensitivity to local, state, and federal policy decisions; personal choices of residents; and other market forces.

Estimated future revenues have been projected for the 2024-2044 planning period in year of expenditure dollars (YOE\$). The revenue analysis is grouped in the following categories:

- **Dedicated Capital Revenues.** These revenues are required by law to be used for specific types of capital expenditures.
- **General Capital Revenues.** These revenues are required by law to be used for capital, but the types of capital projects are not restricted.
- **Impacts of Annexations.** Annexation and incorporation of land into cities can have significant impacts on the County's revenues, by decreasing the tax base.
- **Potential Policy Options and Other Funding Sources.** This section covers other ways the County could fund its capital project costs, including policy choices and sources such as local improvement districts.

Some of the funds discussed in this analysis may be used for maintenance and operations of existing capital facilities or for construction of new capital facilities. However, if maintenance and operations costs of existing facilities increase faster than revenues, jurisdictions are confronted with difficult decisions of whether to fund these costs rather than build new facilities, or to maintain current facilities that may provide lower LOSs. Those decisions will be made by the Board of County Commissioners and the County's executive leadership. Every effort has been made in this analysis to include only those

revenues that the County currently chooses to use for capital investments. No funds currently used for maintenance and operations have been included in the capital revenue analysis.

## 3.2 ASSUMPTIONS

The revenue projections included in this analysis are based on up-front assumptions. The most significant assumptions are:

**Annexation.** This analysis makes annexation assumptions that are based on discussions with County staff familiar with the County's and cities' future plans. The assumptions provide a conservative picture of future revenues and demand for service; however, it is noted that if the annexations occur there would be corresponding change in responsibilities for capital project implementation that would be reflected in future capital plans for the County.

- This analysis does not consider the possible incorporation of Silverdale before 2044.
- This analysis assumes the cities in Kitsap County will annex all commercial and residential areas in their assigned UGAs by 2044. These annexations are assumed to occur incrementally between 2024 and 2044.

**Real Estate Growth.** This analysis makes assumptions about the growth in assessed value of real estate, which affects both Real Estate Excise Tax (REET) revenues and the Conservation Futures Levy that supports park capital projects. There are two pieces to projecting future real estate:

- **Escalation Rate of Assessed Values.** This analysis estimates that real estate assessed values will increase between 3.5 percent - 5 percent annually, beginning in 2024. In comparison, home values increased by an average of 8.7 percent annually over the prior twenty years. This rate of increase reflects a level similar to, but slightly lower than average levels of growth for Washington State during the same timeframe.
- **Turnover Rate of Properties.** To be conservative, this analysis assumes a turnover rate of 5.0 percent for residential properties and 3.5 percent for commercial properties in 2024, which are considered typical levels of turnover for those property types and less than the most recent five-year period average at 8 percent annually.

**Population.** The revenue analysis is based on estimated countywide population growth.

*The assumptions being used for this revenue analysis may not align with the County's budget assumptions regarding the same sources of revenue.* The assumptions differ because the purposes of the two analyses are different: the purpose of the County' budget is to estimate how much money the County will have available to spend in the coming fiscal year; the purpose of this CFP revenue analysis is to estimate how much money the County is likely to receive over the next six years and next twenty years. The County's budgeting process works to estimate how much money will be received in a given year, while this revenue analysis estimates long-term averages based on historical trends.

### **3.3 DEDICATED CAPITAL REVENUES**

#### **Transportation**

The County is responsible for maintenance and operations of our current multi-modal transportation system and for improvements to the system to support future growth. The County works closely with the State, cities, neighboring counties, transit agencies, Ports, and special districts within and adjacent to the Kitsap County to provide an integrated multi-modal transportation system.

Funding for transportation comes from a variety of taxes, fees, and grants; some of which are solely available for transportation purposes. The level of available funding is difficult to project beyond 3 to 4 years, let alone project for the 20-year time frame of the comprehensive plan. There are two primary expenditure categories: operations (maintenance, operations, and preservation of the existing system) and capital construction (building new improvements).

Operation of the multi-modal transportation system is the priority for the County with most of the available funding going to support those activities. In 2023 the Operations budget was \$38,000,000 and is expected to increase annually due to inflation, changes to environmental regulations, and operational requirements. Over 20 years the estimated operations expenditure may range from \$900,000,000 to \$1,000,000,000.

The capital construction program is funded through available revenue after operations are funded and grant funding. Over the Transportation Improvement Program (TIP) six-year cycle for 2024-2029, the capital construction budget is \$115,400,000.

#### **Road Levy – Property Tax**

The County assesses a portion of the property tax for transportation purposes. The County Board of Commissioners is limited to a maximum of 1 percent growth (exclusive of new construction) per year for the Road Levy. Any larger increase requires a public vote.

In 2023, the County Road Levy allocated to Public Works was \$31,000,000. Over 20 years the anticipated total range is \$680,000,000 to \$775,000,000. Between 17 percent and 19 percent of the Road Levy is directed to transportation uses outside of road maintenance, operations, and improvements. The largest purposes are Sheriff traffic enforcement, \$2,900,000 in 2023, over 20 years approximately \$58,000,000; and County Stormwater Fees, \$3,500,000 in 2023, over 20 years approximately \$71,000,000.

**Exhibit 3-1. Kitsap County Road Levy Estimated Future Revenues (2024-2044 in YOES).**

Road Levy – Property Tax Revenues	Total 2024-2044
<b>Estimated Revenues*</b>	\$727,500,000
<b>Amount Committed to Fees**</b>	\$129,000,000
<b>Available Revenues</b>	\$598,500,000

Source: Kitsap County Transportation Planning, 2023; LDC, 2023

Notes: \*The estimated revenue is calculated as an average of the anticipated total range of revenues.

\*\*The amount committed to fees is the total amount of revenue that is used for Sheriff traffic enforcement and County stormwater fees.

The County does not currently dedicate any County road property tax levy revenues toward capital projects. However, this revenue is sometimes used to fund construction on an as-needed basis through operating transfers to the County road construction fund.

### State Motor Vehicle Fuel Tax

Counties and cities receive a portion of the State Motor Vehicle Fuel (MVF) tax based on a complex reimbursement formula relying largely on road miles within the jurisdiction. State MVF tax rates saw a series of voter-approved increases in past years. Most of those additional funds, however, were earmarked for specific transportation projects throughout the State, and local jurisdictions did not see a noticeable increase in average revenues.

**Assumptions:** Revenues in this category have been projected using estimated revenues per centerline miles of road in the unincorporated county. There are two counter forces affecting miles of road in the unincorporated county: road miles increase as the County builds new roads and expands current ones, and road miles decrease as land is annexed and incorporated.

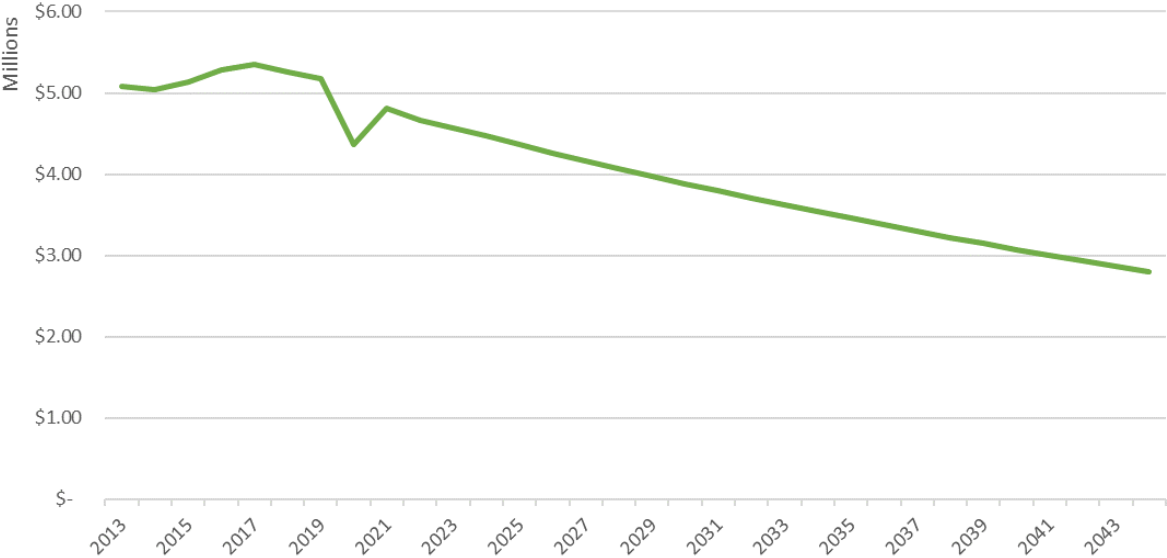
To account for both of these forces, this analysis uses recent trends in centerline miles of roads as they relate to population in the unincorporated county. As UGAs or portions of UGAs are annexed, miles are subtracted from the unincorporated total in approximate proportion to the unincorporated acres being annexed.

MVF tax revenues per mile of road are assumed to decline over the study period. The ten-year historical average MVF tax revenue per lane mile is about \$5,480. To be conservative, this analysis assumes an average annual loss of 1.8 percent in fuel tax revenues over the planning period, resulting in decreasing purchasing power over time.

Kitsap County has historically put all of its MVF tax revenues into its capital road fund, and this analysis assumes that trend will continue.

While the MVF revenue has been flat or declining, County Public Works anticipates around \$5,750,000 annual revenue for the state program or its Vehicle Miles Traveled replacement. Over 20 years, the anticipated total is \$80,000,000. Exhibit 3-2 shows historical motor vehicle fuel tax revenues and projected future revenues.

**Exhibit 3-2. Kitsap County Motor Vehicle Fuel Tax Revenues Allocated for Capital (2024-2044 in YOES).**



Source: Kitsap County Transportation Planning, 2023; LDC, 2023

Exhibit 3-3 shows estimated total Motor Vehicle Fuel Tax revenues in two subtotal periods as well as for the entire 2024-2044 planning period.

**Exhibit 3-3. Projected Kitsap County Motor Vehicle Fuel Tax Revenues Allocated to Capital (2024 - 2044 in YOES)**

Motor Vehicle Fuel Tax Revenues	Subtotal 2024-2029	Subtotal 2030-2044	Total 2024-2044
<b>Estimated Revenues</b>	\$25,785,000	\$53,550,000	\$79,335,000

*Source: Kitsap County Transportation Planning 2023; Kitsap County Department of Administrative Services, 2023; LDC, 2023*

### **Transportation Impact Fees**

Transportation impact fees are assessed on new development to fund improvements that add capacity to the transportation system, accommodating the travel demand created by new development. The Revised Code of Washington (RCW) Section 82.02.050 identifies the intent of impact fees as:

- To ensure that adequate facilities are available to serve new growth and development;
- To promote orderly growth and development by establishing standards by which counties, cities, and towns may require, by ordinance, that new growth and development pay a proportionate share of the cost of new facilities needed to serve new growth and development; and
- To ensure that impact fees are imposed through established procedures and criteria so that specific developments do not pay arbitrary fees or duplicative fees for the same impact.

Transportation impact fees are a financing mechanism authorized by the Growth Management Act (GMA) of Washington State (see RCW 36.70A.070 and 82.02.050). State law imposes limitations on impact fees. These limitations are intended to assure property owners that the fees collected are reasonably related to their actual impacts and will not be used for unrelated purposes.

Impact fee revenue collected from developments can be spent only on transportation system improvements which are: (a) identified in the comprehensive plan, capital improvement program, or other policy documents (including this study) as needed for growth, and (b) reasonably related to the impacts of the new development from which fees are collected.

Specifically, condition (a) requires that impact fees are not used on improvements needed to remedy existing deficiencies. Those needs must be entirely funded from public sector resources. Condition (b) is satisfied if the local government defines a reasonable service area, identifies the public facilities within the service area that require improvement during the designated planning period, and prepares a fee schedule taking into account the type and size of the development as well as the type of public facility being funded.

Impact fee rates are set based on the entire transportation system. This is a key difference between impact fees and State Environmental Policy Act (SEPA) mitigation, whereby pro-rata shares of specific project improvements are collected. However, impact fees are not a replacement for SEPA mitigation.



Impact fee rates are easier to administer than traditional SEPA development mitigation, at the point of development review. However, more complex administrative procedures are necessary to track the funds collected from each development. This is necessary to assure that the funds are expended only on eligible transportation system improvements and to assure that impact fee revenues are used within ten years. Fees not expended within ten years must be refunded with interest to the current owner of the property.

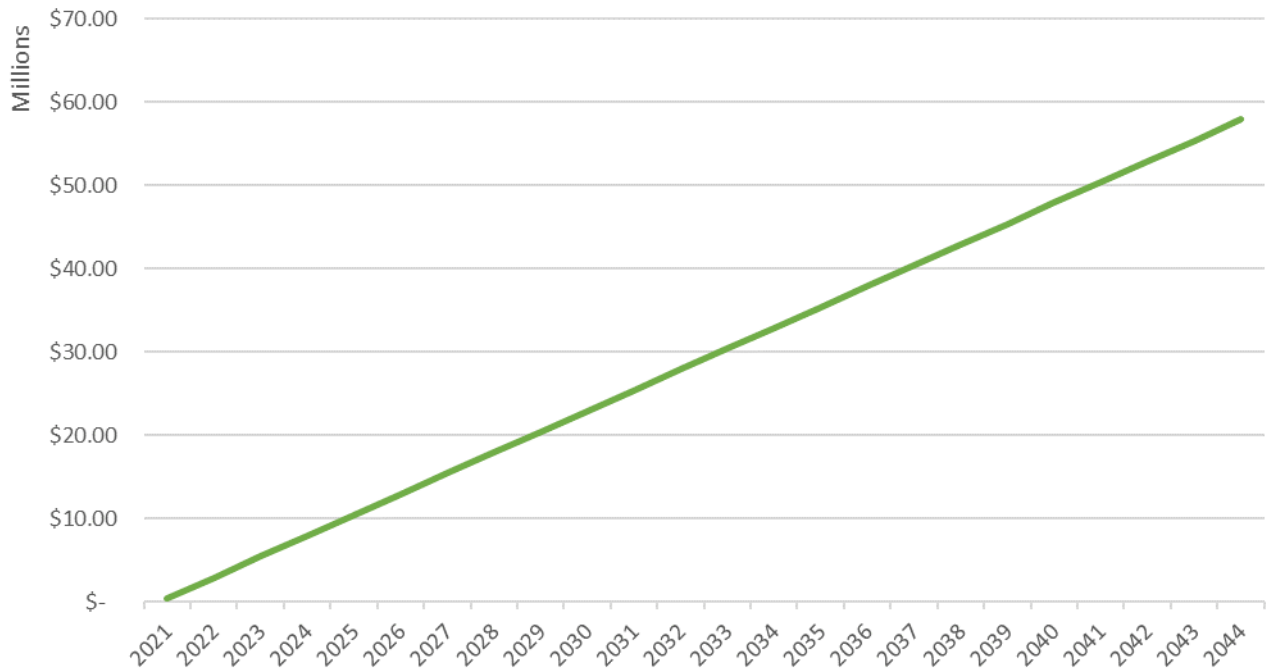
Kitsap County first adopted a transportation impact fee ordinance in 1992. The ordinance established an impact fee rate of approximately \$51 per daily trip for each of three impact fee districts. The impact fee rate structure was updated in a 2003 study to create four impact fee districts, with a fifth district for state route projects in Kitsap County.

Kitsap County Ordinance 561-2018 established a new impact fee rate table based on the Institute of Transportation Engineers Trip Generation Manual. The current impact fee rate is uniform across all impact fee service areas and is adjusted for inflation.

As of March 2020, the transportation impact fee rate was approximately \$700 per new PM peak hour trip, an equivalent of \$694 per new single-family dwelling unit. This was the second-lowest impact fee rate in Western Washington for jurisdictions who impose transportation impact fees.

In 2021, the County Board of Commissioners passed Ordinance 600-2021, increasing the Transportation Impact Fee to \$4,304 per PM peak hour trip. Revenue from impact fees is highly variable and subject to economic cycles. For planning purposes, the County Public Works estimates \$2,500,000 in revenue from impact fees annually. Over 20 years, an estimated \$50,000,000 in revenue is anticipated. Exhibit 3-4 shows projected future Impact Fee revenues rising linearly with expected growth over the next 20 years.

**Exhibit 3-4. Kitsap County Transportation Impact Fees (2021 – 2044 in YOES)**



Source: Kitsap County Transportation Planning 2023; LDC, 2023

Exhibit 3-5 shows estimated total impact fee revenues in two subtotal periods as well as for the entire 2024-2044 planning period.

**Exhibit 3-5. Projected Kitsap County Transportation Impact Fees (2024 – 2044 in YOES)**

Motor Vehicle Fuel Tax Revenues	Subtotal 2024-2029	Subtotal 2030-2044	Total 2024-2044
<b>Estimated Revenues</b>	\$15,000,000	\$35,000,000	\$52,500,000

Source: Kitsap County Transportation Planning 2023; LDC, 2023

**Transportation Grants**

A grant is funding provided by an outside source that does not need to be repaid. Grants come in all sizes, purposes, and conditions set by the granting source to achieve the goals and objectives of the grant organization. Grants typically target specific issues such as safety, congestion, walking and biking, economic development, and preservation to name a few.

Grant processes are competitive; the more closely the proposed project matches the criteria of the grant process the higher the potential a grant may be awarded. However, all grant processes are oversubscribed with typically significantly more applications than

available funding, so even perfectly eligible projects will not receive a grant award. Grants can be competitive on a national, state, or regional level.

Utilizing a grant has direct and indirect costs in County in funds, staffing, resources, and lost opportunities to pursue higher priority projects; thus, grant opportunities are strategically pursued by the County when they are consistent with the policies, TIP process, and transportation plans of the County. Prior to applying for a grant, the County will have already invested significant resources, staff, and time into developing the plans and identifying the scope of the project.

Grant awards can provide full or partial funding for a project. Some grant awards “fully fund” a project; however, these grant awards are not common and are typically smaller scale projects. On average a “fully funded” award will cover approximately 95 percent of the full cost of a project. Most grant programs require the County to provide a “local match” based on a percentage of the grant award amount. Local matches are local funds provided by the County and come from the Road Fund revenue. Local matches generally range from 13.5 percent to 20 percent of the grant amount, with some requiring as much as 50 percent.

Most grant programs also set a maximum dollar amount for a grant award. The County typically must size projects or divide larger projects into multiple projects to apply for grants. The County can, and typically does, apply for grants by phases (for preliminary engineering, right of way, and/or construction) within a project. A project can apply for and receive multiple grant awards (for preliminary engineering, right of way, and/or construction) or apply for a single phase, such as construction. If a grant award is for a specific phase (i.e., construction) then only the costs associated with actual construction of the project can be paid for with grant funds; all other associated costs are the responsibility of the County.

Grant organizations impose requirements on the County and projects that range from added administrative processes and purchasing restrictions to regulatory review processes. Typically, these requirements increase the total cost of a project by 10 percent to 25 percent. A grant agency will place restrictions on what is an “eligible cost” for a project. The County will either cut the “ineligible cost” or fund that portion of a project with local funds. Grants lock the County into rigid timelines, placing constraints on County staffing, and can result in the County returning the grant funding because it cannot make required deadlines.

Overall, the County anticipates that a “grant funded project” will receive 60 percent to 70 percent of the total project costs from grants, and that 30 percent to 40 percent of the project costs will come from other County Road Fund revenue sources.

Grants from the State or other organizations are typically for all phases of a project and account for approximately 35 percent to 45 percent of all awards. Grants from federal agencies are more typically awarded by phase.

In the 2024-2029 TIP, the County is estimating \$67M (or 58 percent of the 6-year TIP, \$115,000,000 capital construction program) will be grant funded from 8 different grant organizations. The grants identified in the TIP include secured and high potential for awarded future grants. For planning purposes, it is assumed the construction program will be 55 percent to 65 percent funded by grants. The majority of these projects will not be constructed without full or partial grant funding.

**Assumptions:** Grant revenues are estimated on a per capita basis on the assumption that, over time, a jurisdiction will generally receive its “fair share” of available grant revenues. Since 1988, Kitsap County has averaged \$4.55 per capita in state grant revenues per year. In the past decade, the County has received approximately \$3.33 per capita in state grant revenues. Given the forces discussed previously, this analysis assumes \$4.50 per capita in the future with 3 percent annual increases. Total revenues will therefore change on pace with changes in the county’s unincorporated population. Because of the increased competition for grant dollars and decrease in available grant funds, grant revenues have been estimated at lower levels than recent rates. Since 1988, Kitsap County has received an annual average of \$7.34 per capita of federal grant funding, and over the last decade the County has received an annual average of \$12.78 per capita. The average has been slightly higher in recent years, so this analysis estimates future average annual per capita federal grant dollars at \$8.00 per capita, with a 3 percent annual increase. As with state grant dollars, changes in total revenues are expected to occur at the rate of change in the population.

Exhibit 3-6 shows historical Grant revenues and projected future revenues. After 2029, grant funding is expected to decrease to average levels described in the assumptions above.

**Exhibit 3-6. Kitsap County Federal Transportation Grant Revenues Allocated for Capital Projects (2022 – 2044 in YOES)**



Source: Kitsap County Transportation Planning 2023; LDC, 2023

Exhibit 3-7 shows estimated total federal grant revenues in two subtotal periods as well as for the entire 2024 – 2044 planning period.

**Exhibit 3-7. Projected Federal Transportation Grant Revenues for Capital Projects (2024 – 2044 in YOES)**

Transportation Grants	Subtotal 2024-2029	Subtotal 2030-2044	Total 2024-2044
<b>Estimated Revenues</b>	\$67,000,000	\$35,581,000	\$102,581,000

Source: Kitsap County Transportation Planning 2023; LDC, 2023

**Total Estimated Transportation Revenues**

Exhibit 3-8 shows total projected dedicated transportation revenues for Kitsap County for the planning period and two interim subtotal periods. It is important to note that these totals include impact fee revenues, which have limitations described in the Transportation Impact Fees section above, including that they are limited to spending on projects that serve new development and must be spent within six years of collection.

**Exhibit 3-8. Projected Total Transportation Revenues Allocation for Capital (2024 – 2044 in YOES)**

Total Transportation Revenues	Subtotal 2024-2029	Subtotal 2030-2044	Total 2024-2044
<b>Estimated Revenues</b>	\$122,620,445	\$124,131,000	\$246,751,445

Source: Kitsap County Transportation Planning 2023; LDC, 2023

**Parks**

**Parks Impact Fees**

Similar to the transportation impact fees described above, a County can impose impact fees on new residential developments to help fund capital parks projects to serve new development. Impact fees can be used to pay the proportional share that each development benefits from public facilities but cannot be used to correct existing deficiencies. Parks impact fees may only be charged on developments in unincorporated areas of the county.

Impact fees can be used on development, site acquisition, or debt service for projects that serve a new development. Kitsap County currently imposes impact fees at the rates authorized in Kitsap County Code 4.110.210.

**Assumptions.** Since impact fees are related to new residential development, this analysis projects future revenues based on expected rates of new residential construction in the unincorporated area of the county. Historical revenues and construction levels were analyzed to understand the relationship between impact fees and new construction, and this relationship was used to project revenues going forward.

Over the last ten years (2014-2023) the County has received about \$1.60 in parks impact fees for every \$1,000 of new construction Assessed Value (AV) from unincorporated areas. To estimate these revenues going forward, this analysis holds a constant relationship of \$1.60 per \$1,000 new construction AV, with 3 percent annual increases. Total revenues will therefore change on pace with changes in the County’s unincorporated population. As with transportation impact fees, this analysis does not assume any future rate adjustments, although rates are likely to be reviewed, and perhaps adjusted, by the County every few years based on future project needs.

Exhibit 3-9 shows historical park impact fee revenues and estimated future revenues.

### Exhibit 3-9. Kitsap County Park Impact Fees (2014 – 2044 YOES)



Source: Kitsap County Parks Admin, 2023; LDC, 2023

Exhibit 3-10 shows future estimated park impact fee revenues for two subtotal time periods as well as for the entire 2024-2044 planning timeframe.

### Exhibit 3-10. Kitsap County Park Impact Fee Revenues (2024 – 2044 YOES)

Parks Impact Fees	Subtotal 2024-2029	Subtotal 2030-2044	Total 2024-2044
<b>Estimated Revenues</b>	\$ 4,637,539	\$ 15,922,124	\$ 20,559,663

Source: Kitsap County Parks Admin, 2023; LDC, 2023

### Conservation Futures Tax

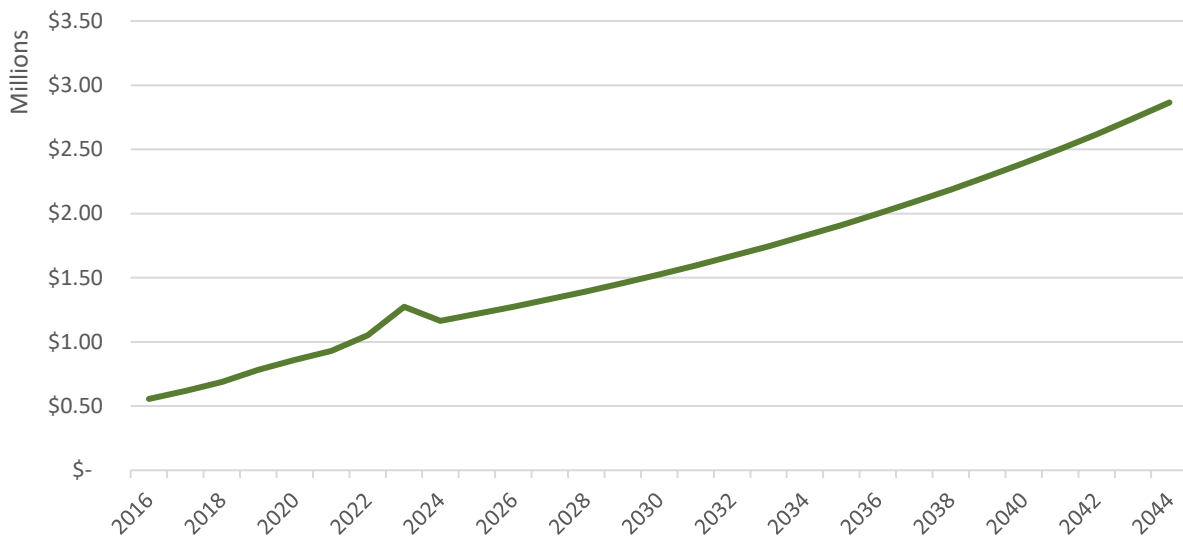
The Conservation Futures Tax is a property tax assessed on all taxable property in Kitsap County, in both incorporated and unincorporated areas. According to state laws (RCWs 84.34.210 and 84.34.220), revenues from this tax may be used for acquisition of open space land, farm and agricultural land, and timber land. This tax has become an important piece of Kitsap County’s parks funding as it remains stable, while impact fee revenues have been consumed by debt service payments during the prior 10 years. However, much of this revenue has also been dedicated to paying off bonds that will be retired in 2024.

As mentioned above, property tax revenues were significantly impacted by the passage of Initiative 747 in 2001, which limits property tax collections increases to 1.0 percent of the previous year’s revenues plus new construction. In inflation-adjusted terms, revenues from property tax are actually declining, since the 1.0 percent allowable increase does not keep pace with inflation (which has averaged about 3.0 percent in the recent past) or with population growth.

**Assumptions.** This analysis assumes assessed values will increase at 3.0 percent annually, which is in line with historical averages. The current levy rate for the conservation futures tax is \$0.025532 per \$1,000 of assessed value countywide (Kitsap County Statement of Assessments, 2024). As assessed values increase and levy revenues are limited to the 1 percent increase plus new construction, the levy rate will decline. Kitsap County is currently collecting the maximum revenue each year at its current rate, including the 1 percent growth. The only way the County could receive additional revenues beyond what is projected below is to pass a voter-approved levy increase.

Exhibit 3-11 shows historical conservation futures tax revenues and estimated future revenues.

**Exhibit 3-11. Kitsap County Conservation Future Tax Revenues (2016 -2044 YOES)**



Source: Kitsap County Parks Admin, 2023; LDC, 2023

Exhibit 3-12 shows estimated future revenues for the conservation futures tax for two subtotal time periods as well as the entire 2024-2044 planning timeframe. The County is currently using these revenues to pay debt service for capital bonds. In total, about \$7.3 million of projected conservation futures revenues is slated to go toward debt service



payments through 2024. The remaining amount is available for future parks capital projects.

**Exhibit 3-12. Projected Kitsap County Conservation Futures Tax Revenues  
(2024 - 2044 in YOES)**

Conservation Futures Tax	Subtotal 2024-2029	Subtotal 2030-2044	Total 2024-2044
<b>Estimated Revenues</b>	\$7,840,680	\$31,955,515	\$39,796,195

*Source: Kitsap County Parks Admin, 2023; LDC, 2023*

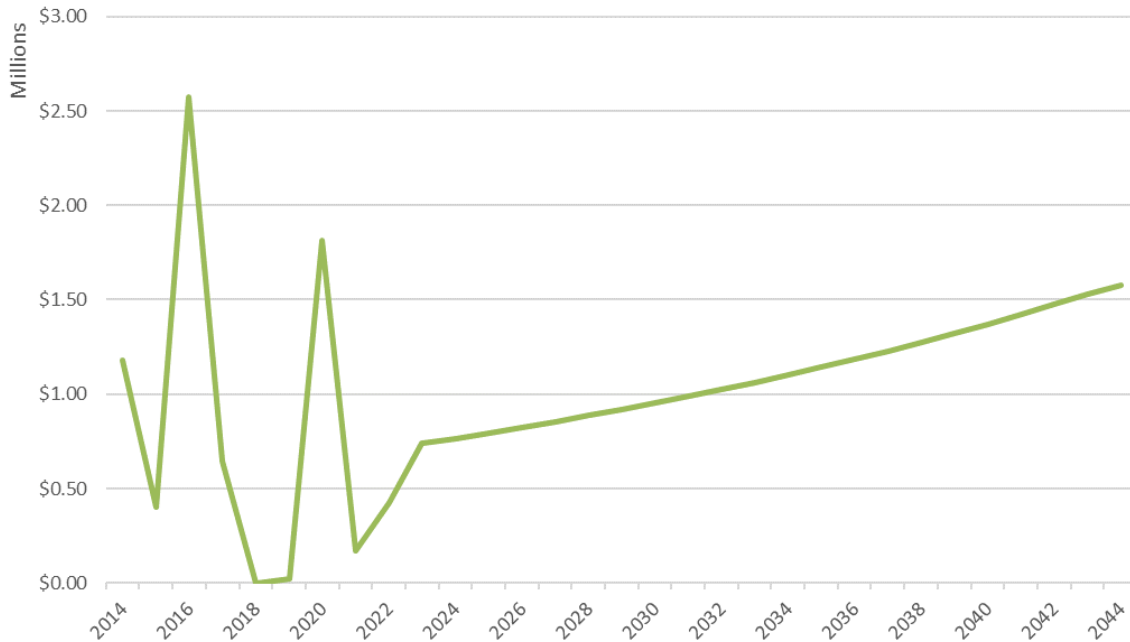
**Grants and Donations**

Additional revenues for parks capital projects and acquisitions generally comes from state grants, federal grants, and donations. State grants, which usually come from the Washington State Recreation and Conservation Office, make up the largest of these three sources.

**Assumptions.** Because competition for grants is on a state or national level, this analysis estimates these revenues on a per capita basis on the assumption that, over time, a jurisdiction will generally receive its “fair share” of available grant revenues. Between 2014 and 2023, the County received about \$4.03 per capita in combined state and federal grant and donation revenues; this analysis estimates future average annual grants at \$4.03 per capita, with 3 percent annual increases.

Exhibit 3-13 shows historical revenues and estimated future revenues. An average annual dollar amount is assumed in each year for this analysis. However, these dollars will vary greatly from year to year and will likely resemble the trend of peaks and valleys shown in historical data. While using an annual average does not fully represent the County’s future cash flow of grant dollars, it approximates how many total dollars will be received over the study period.

**Exhibit 3-13. Kitsap County Parks Grants and Donations Revenues (2014 – 2044 in YOES)**



Source: Kitsap County Parks Admin, 2023; LDC, 2023

Exhibit 3-14 summarizes the County’s projected parks grant and donation revenues in two subtotal time periods as well as for the entire 2024-2044 planning horizon.

**Exhibit 3-24. Projected Kitsap County Parks Grants and Donations Revenues (2024-2044 in YOES)**

Parks Grants and Donations	Subtotal 2024-2029	Subtotal 2030-2044	Total 2024-2044
<b>Estimated Revenues</b>	\$5,042,898	\$18,660,745	\$23,703,643

Source: Kitsap County Parks Admin, 2023; LDC, 2023

**Total Estimated Parks Revenues**

Exhibit 3-15 shows total projected parks capital revenues for the planning period, including revenues from impact fees, conservation futures tax, grants, and donations. The County’s future revenues are available for spending on parks capital projects over the planning period, resulting in an estimated \$84 million.

**Exhibit 3-35. Projected Total Kitsap County Revenues Dedicated to Parks Capital Projects (2024-2044 in YOES)**

Total Parks Revenues	Subtotal 2024-2029	Subtotal 2030-2044	Revenue Total 2024-2044
<b>Estimated Revenues</b>	\$17,521,117	\$66,538,384	\$84,059,501

Source: Kitsap County Parks Admin, 2023; LDC, 2023

**Sewer**

**Federal or State Grants**

Kitsap County receives grants from the state to help fund sewer capital projects. These grants are project-specific and therefore do not occur on a regular basis. In the timeframe for which historical revenues were available for this analysis, 2016-2023, the County received capital sewer grants in four of the eight years. These grants varied in amount from \$0.15 million to \$10 million. The County received two grants for the Kingston Treatment Plant Water Reuse Feasibility Study. In 2017 the Bureau of Reclamation provided a \$150K grant and in 2019, the Department of Ecology (DOE) provided a \$258K grant for the study. The County received a \$10M grant in 2021 from the Defense Community Infrastructure Pilot (DCIP) program for the Bangor/Keyport Forcemain Replacement project to replace 5-miles of highly corroded ductile iron pipe. DOE provided a \$343K grant in 2022 to reduce nutrients discharged into Puget Sound from the Central Kitsap Treatment plant.

**Assumptions.** Based on discussions with Kitsap County, recent grant revenues have been higher than historical averages, and higher than the County expects to receive going forward. The County has indicated that the conservative estimate for project revenues over the next 20-years would be to account for no additional grant revenues.

**Sewer Connection Fees**

Sewer connection fees (also known as newcomer assessment fees) are charged when a property owner wants to connect a property to an existing county sewage system. The logic behind the newcomer’s fee is that it represents the new connection’s proportionate share of the existing asset value and for the capacity of future expansion of the major components of the existing sewage systems. The amount of the fee varies based on the type of property and/or the number of dwelling units.

Connection fees for of Kitsap County sewer service area new customers are deposited into a non-capital Sewer Improvement Fund and only transferred to the Sewer Capital Program as needed. In 2020 the connection fee calculation structure was changed from individual fees for each County sewer service area to a uniform fee for all the service areas. The fee is calculated annually based on current asset value, 10-years of interest on debt service, and capacity. Previously, the connection fee was adjusted annually by Seattle-Tacoma CPI-U for the previous year. The CPI-U is not a true cost for adjustment since it does not accurately account for construction costs.

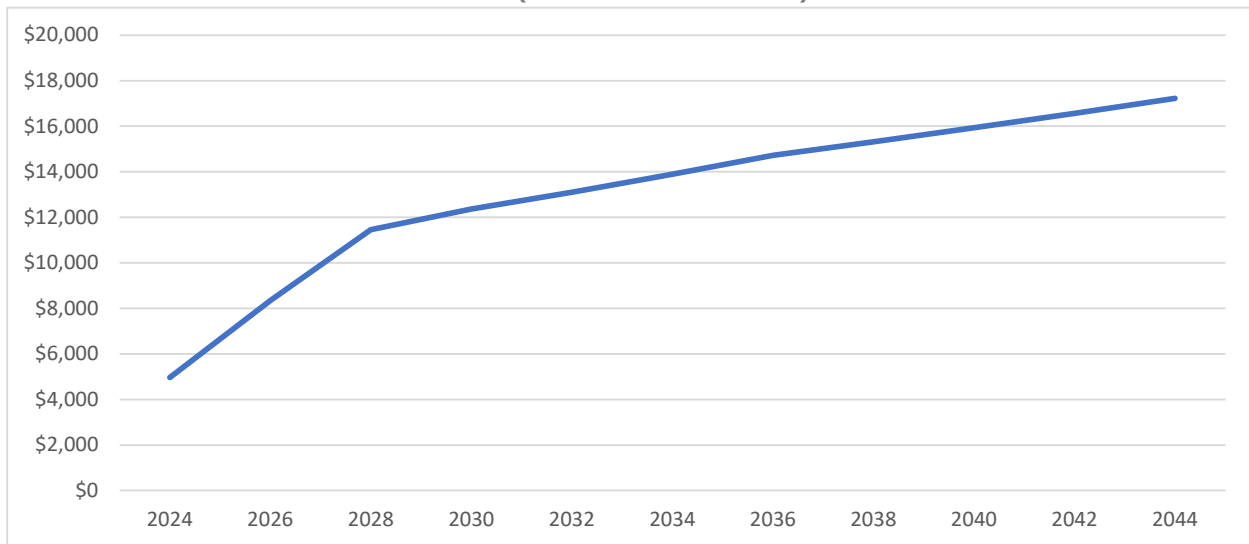
The City of Poulsbo and the USN Keyport Base pay for a portion of the County's sewer infrastructure improvements directly benefitting the City and the Base. The proportionate amount is calculated by percentage of flow in the collection and conveyance system and by share of capacity at the Central Kitsap Treatment Plant (CKTP) and is applied as revenue to the individual project.

**Assumptions.** Connection fees are generated by new sewer connections, which vary by the type of new development, as well as when an existing property changes use, and the connection fee is then calculated on the new use and then deducts the previous connection fee paid under the old use.

Future revenues generated from connections fees is dependent on the housing development growth within the County's sewer service areas as well as the projected cost of the capital program. Over the last eight years (2016-2023), connection fees have gone from an average fee of \$5,873 in 2016 to \$9,939 in 2023. A significant increase came in 2023 due to the jump in the cost of the capital improvement program. The amount of future connection fees will be dependent on the cost of the capital improvement program with much of the County infrastructure near or past it's useful life and the growth in the housing development.

Exhibit 3-16 shows estimated future revenues from connection fees allocated to the capital program. The analysis estimates annual revenues using an assumption of linear growth in households between 2024 and 2044. However, actual revenues in any given year may vary based on the type and amount of construction completed in that particular year and will likely exhibit peaks and valleys. Graph 1 shows the annual average over the entire planning period.

**Exhibit 3-16. Kitsap County Sewer Connection Fees Allocated for Capital 2024-2044 (in thousands YOES)**



Source: Kitsap County, 2023

Exhibit 3-17 summarizes total future estimated sewer capital revenues from the City of Poulsbo and the USN Keyport Base for the planning period 2024-2044 broken out into the two subtotal periods for 2024-2029 and 2030-2044.

**Exhibit 3-17. Projected Sewer Capital Revenues from the City of Poulsbo and USN Keyport Base for 2024-2044 (YOES)**

Sewer Fees	Subtotal 2024-2029	Subtotal 2030-2044	Total 2024-2044
<b>Estimated Revenues</b>	\$27,987,106	\$35,66,763	\$63,647,869

Source: Kitsap County, 2023

**Total Estimated Sewer Revenues**

Utility funds operate as enterprises within the County structure, functioning much like private business entities. The Sewer Capital Fund relies primarily on rates to fund its capital program; the County periodically conducts comprehensive cost-of-service evaluation of its utilities to determine whether any adjustments to current rates are needed to ensure each customer pays their equitable share of sewer system costs. The results of this study are reflected in the customer utility rates. Additionally, the Sewer Capital Fund typically receives transfers from the Sewer Operating and Maintenance Fund, as well as developer contributions.

Exhibit 3-18 shows total estimated revenues available for sewer capital projects over the planning period, with the major contributions come from, sewer connection fees, federal and state grants, capital revenue from the City of Poulsbo and USN Keyport, and sewer revenue bonds. Additionally, the County currently has a fund balance of \$18.8M in its sewer capital fund. These dollars are also available to cover planned sewer projects during the 2024-2044 time period.

**Exhibit 3-18. Total Projected Sewer Revenues Estimated for Capital 2024-2044 (YOES)**

Total Sewer	Subtotal 2024-2029	Subtotal 2030-2044	Revenue Total 2024-2044	Total with 2024 Fund Balances
<b>Estimated Revenues</b>	\$164,672,000	\$418,223,255	\$582,895,255	\$600,000,000

**Storm Water Management**

**State and Federal Grants**

The County receives state and federal grants to support specific Stormwater Management (Stormwater) capital projects. The County received grants to aid stormwater capital

projects for capacity and non-capacity projects to be distributed through 2027 for a total of \$6,156,000.

**Assumptions.** Over the last three years (2020-2022), annual per capita grant revenues for surface and stormwater management have been about \$11.40 per capita. As a conservative assumption, expected revenues for Stormwater grants are estimated at \$2.00 per capita annually, growing at an estimated future inflation rate of 3.0 percent, per historical trends. An average annual dollar amount is assumed in each year for this analysis. However, in reality these dollars will vary greatly from year to year and will likely resemble the trend of peaks and valleys shown in historical data. While using an annual average does not fully represent the County’s future cash flow of grant dollars, it approximates how many total dollars will be received over the study period.

Exhibit 3-19 summarizes projected revenues for the planning period as well as two subtotal time periods.

**Exhibit 3-194. Projected Surface and Stormwater Management Grant Revenues (2024 - 2044 in YOES)**

Stormwater Grants	Subtotal 2024-2029	Subtotal 2030-2044	Revenue Total 2024-2044
<b>Estimated Revenues</b>	\$8,585,785	\$8,988,263	\$17,574,048

Source: Kitsap County, 2023

**Surface and Stormwater Management Fees**

The County charges Stormwater fees to those served by or receiving benefits from County drainage facilities or contributing to surface water runoff within the County. Rates are based on the current use of a property (such as residential, commercial, or roadway) as well as the size of the establishment in terms of square footage, number of dwelling units, or impervious surface area.

Stormwater fee revenues can be used for both operations and maintenance of Stormwater facilities as well as Stormwater capital projects. The amount of fee revenue that goes into the Stormwater capital funds is based on County policy.

**Assumptions.** As of 2016 the County allocated about \$1.1 million per year of its Stormwater rate revenues into its Stormwater capital funds: \$850,000 into the Stormwater Program Capital Fund and \$230,000 into the Stormwater Asset Replacement Fund. This analysis assumes that this level of fee contribution to capital projects will continue and will increase at about 3.0 percent annually due to inflation and rate increases. Exhibit 3-20 shows estimated future revenues.

**Exhibit 3-5. Kitsap County Surface and Stormwater Management Fee Revenues Allocated to Capital (2024 – 2044 in YOES\$)**

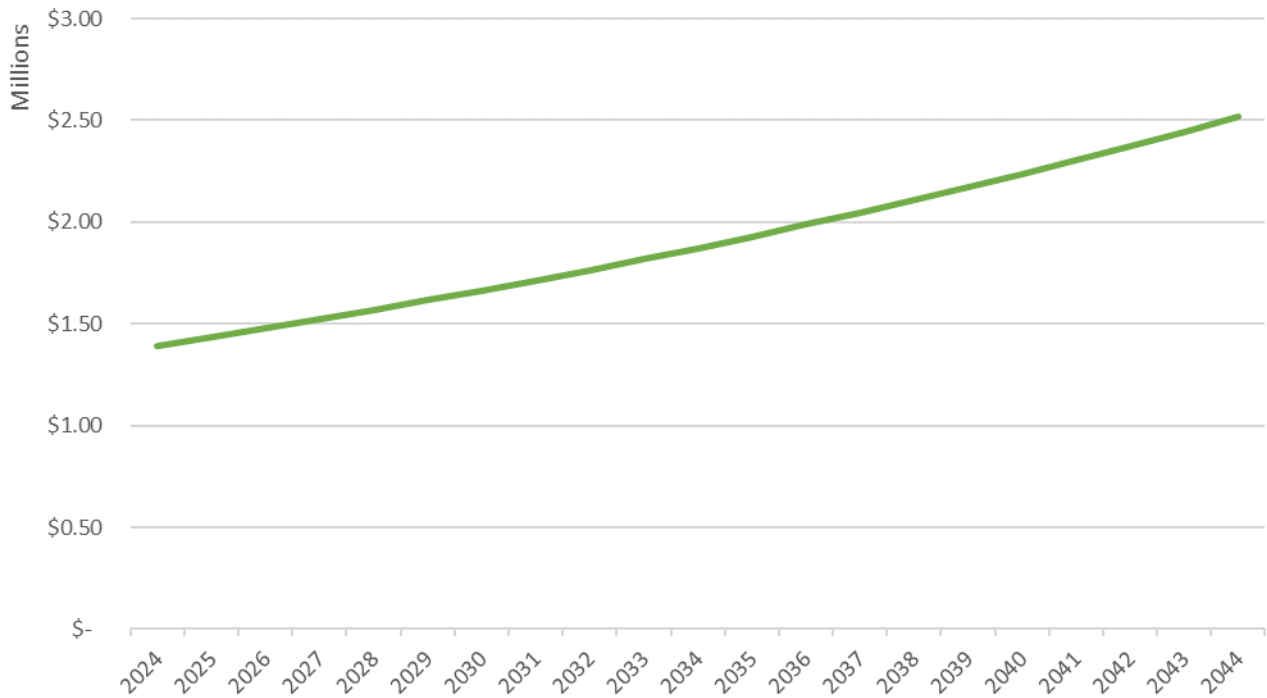


Exhibit 3-21 summarizes total estimated fee revenues allocated for capital for 2024 – 2044 as well as two interim summary time periods.

**Exhibit 3-61. Projected Kitsap County Surface and Stormwater Management Fee Revenues Allocated to Capital (2024 – 2044 in YOES\$)**

Stormwater Fees	Subtotal 2024-2029	Subtotal 2030-2044	Revenue Total 2024-2044
<b>Estimated Revenues</b>	\$9,013,387	\$30,945,779	\$39,959,166

Source: Kitsap County, 2023

**Total Estimated Surface and Stormwater Management Revenues**

Utility funds operate as enterprises within the County structure, functioning much like private business entities. The Surface and Stormwater Capital Fund relies primarily on rates to fund its capital program; the County periodically conducts comprehensive cost-of-service evaluation of its utilities to determine whether any adjustments to current rates are needed to ensure each customer pays their equitable share of surface and stormwater system costs. The results of this study are reflected in the customer utility rates. Additionally, the Sewer Capital Fund typically receives transfers from the Sewer and Stormwater Operating and Maintenance Fund, as well as developer contributions.

Exhibit 3-22 shows total projected Stormwater capital revenues for the planning period, including state and federal grants and management fees. These funds are available for capital projects over the planning period, as reflected in Exhibit 3-24.

**Exhibit 3-72. Projected Total Kitsap County Revenues Allocated to Stormwater Capital Projects (2024 – 2044 in YOES\$)**

Total Stormwater Management	Subtotal 2024-2029	Subtotal 2030-2044	Revenue Total 2024-2044
<b>Estimated Revenues</b>	\$17,590,172	\$39,934,042	\$57,533,214

Source: Kitsap County, 2023

### 3.4 GENERAL CAPITAL REVENUES

#### Real Estate Excise Tax

Real Estate Excise Tax (REET) revenues are collected upon the sale of real property and must be expended on capital projects. Since REET is based on the total value of real estate transactions in a given year, the amount of REET revenues a county receives can vary substantially from year to year based on fluctuations in the real estate market. During years when the real estate market is active, revenues are high, and during slower real estate markets, revenues are lower.

Counties have the ability to impose up to two REET levies, REET I (the first 0.25 percent), and REET II (the second 0.25 percent), for a total tax of 0.5 percent of total assessed value. REET I and REET II revenues must be spent on capital projects that are listed in a county's current capital facilities plan. The definition of capital project, according to RCW 82.46.010 is:

*those public works projects of a local government for planning, acquisition, construction, reconstruction, repair, replacement, rehabilitation, or improvement of streets; roads; highways; sidewalks; street and road lighting systems; traffic signals; bridges; domestic water systems; storm and sanitary sewer systems; parks; recreational facilities; law enforcement facilities; fire protection facilities; trails; libraries; administrative and judicial facilities...*

In addition to the above guidelines, REET II is further restricted, as it may not be spent on recreational facilities, law enforcement facilities, fire protection facilities, trails, libraries, or administrative or judicial facilities.

In Kitsap County, REET I and II are used as follows:



REET I - housing market activity and low interest rates in the last 5 years has allowed for a build of reserves in anticipation of bonding for a new courthouse addition. High interest rates after the pandemic and market cooling have constricted revenues. Modest growth projections of 2 percent over the long term show potential cash flow issues until the existing debt services pay off after 2030.

REET II - Public Works is seeking approval of a long-term commitment toward the new debt service, bonded in 2022, which funded the building of the North Kitsap Service Center. Parks utilization of REET has been low in the last 5 years due to a backlog of projects and staffing issues. There is capacity for Parks projects in the amount of \$1M - \$2.25M annually.

**Assumptions:** Because REET dollars are directly related to the sale of real estate, this analysis assumes an annual turnover rate of 5.0 percent for residential properties and 3.5 percent for commercial properties.

Because REET revenues must be used for capital projects, this analysis assumes all REET revenues beyond those committed to existing bond payments are available for the capital projects discussed in this plan.

Exhibit 3-23 shows estimated total REET revenues in two subtotal time periods as well as for the entire 2024-2044 planning timeframe. The REET account currently has a total fund balance (REET I and REET II) of about \$30 million, which is mostly dedicated for debt service during the planning period. Additionally, some REET revenues, especially in the six-year period, are dedicated to existing capital projects.

**Exhibit 3-23. Projected Kitsap County Real Estate Excise Tax Revenues (2024-2044 in YOES)**

REET	Subtotal 2024-2029	Subtotal 2030-2043	Revenue Total 2024-2044
<b>Estimated Revenues</b>	\$45,861,863	\$130,348,179	\$176,210,043
<b>Amount Committed to Debt Service</b>	\$46,218,297	\$92,404,398	\$138,622,695
<b>Available Revenues</b>	(\$356,434)	\$37,943,781	\$37,587,348

Source: Kitsap County, 2023

### 3.5 TOTAL CAPITAL REVENUES

Exhibit 3-24 summarizes projected total capital revenues available over the planning period, including fund balances.

**Exhibit 3-24. Projected Total Kitsap County Capital Revenues (2024-2044 in YOES)**

Total Capital Revenues	Subtotal 2024-2029	Subtotal 2030-2043	Revenue Total 2024-2044
<b>Estimated Revenues</b>	\$368,265,597	\$779,174,860	\$1,147,449,458
<b>Amount Committed to Debt Service</b>	\$46,218,297	\$92,404,398	\$138,622,695
<b>Available Revenues</b>	\$322,047,300	\$686,770,462	\$1,008,826,763

Source: Kitsap County, 2023

### 3.6 POTENTIAL POLICY OPTIONS AND OTHER FUNDING SOURCES

This section describes policy and funding options available to the County outside of the dedicated revenues listed above. The options listed are not necessarily being considered by the County today but are included to show a range of options available to the County.

#### Adjusting Policies for Non-allocated Revenue Streams

The County has some revenue streams that it is not required to use on capital that are currently either (1) being used partially for capital and partially for operations or (2) not being used for capital at all. If the County experiences a shortfall in the revenues it has allocated for capital sources (which are described in the sections above) it could consider changing its policies to create additional or larger capital revenue streams. However, any increase in the portion of these revenues dedicated to capital would need to be balanced against the County's existing operations and maintenance needs. Revenue streams the County could consider allocating to capital include:

- **Solid Waste.** The County has modeled a fee structure that accounts for future transfers to Capital funds, and accounts for the timing of projects. Beginning in 2025, estimated transfers to the capital fund range from \$2.5M to \$3.5M, through 2028. In the event of shortfalls due to increased project costs or revenue reductions, the County would need to adjust fees and/or take on additional debt to account for these changes.
- **Stormwater Fees.** The County currently has a set practice of transferring a portion of Stormwater fee revenues into the Stormwater asset replacement fund each year to maintain required fund balances. In addition, fee revenue transfers in varying

amounts have historically been used to supplement peaks in the capital program not adequately covered by other funding sources. The County could increase its fee revenue transfers to provide additional capital revenues.

- **County Road Levy.** The County does not currently dedicate any County road property tax levy revenues toward capital projects. However, this revenue is sometimes used to fund construction on an as-needed basis through operating transfers to the County road construction fund. The County could institute a policy of allocating a certain percent of road levy revenues to capital projects to create a more stable capital transportation revenue source.

### **Local/Road Improvement Districts**

If the County needs additional capital funds, it could consider creating a Local Improvement District (LID) or Road Improvement District (RID). Under these programs, the County has the statutory authority to create a new taxing district. Within these districts, the County may levy an additional property tax (excess levy) to cover debt service payments on the sale of bonds purchased to finance projects within the district. Revenues may only be applied to local, clearly defined areas in which the landowners being assessed the additional tax receive a benefit from the funded projects. LIDs may be used for water, sewer, and stormwater projects. RIDs may only be used to fund road and street improvements.

### **Transportation Benefit District**

Counties may form transportation benefit districts (TBDs) to acquire, construct, improve, provide, or fund transportation improvements within the defined district. TBDs have a number of revenue options to raise money to fund these improvements:

- Annual vehicle fee up to \$50 (new legislative change as of July 2016). This fee does not require voter approval, although the County may place it on the ballot if it would like an advisory vote or as an actual requirement of imposition. This fee can either be assessed countywide (on both incorporated and unincorporated areas) or in a district that only includes the unincorporated areas of the county. To assess the fee within incorporated areas, there are legal requirements about the percent of cities and population that must approve the fee.
- Transportation impact fees on commercial and industrial buildings. Residential buildings are excluded. In addition, a county or city must provide a credit for a commercial or industrial transportation impact if the respective county or city has already imposed a transportation impact fee.

- Additional voter-approved revenue options. The County can, with voter approval, institute an annual vehicle license fee of up to \$100 per vehicle or a sales tax up to 0.2 percent within the TBD. The TBD sales tax can be imposed in an area that is smaller than countywide and also sunsets after 10 years unless funds are used to retire debt on bonds used to fund improvements.

### **Tax Increment Financing Tool**

Tax increment financing (TIF) allows cities, counties, and port districts to create special districts (tax increment areas) to finance public infrastructure and help incentivize economic development and redevelopment of blighted neighborhoods. Once created, the existing tax base within the tax increment area is frozen. Property taxes continue to be paid, but taxes derived from increases in assessed values (the tax increment) resulting from new development either go into a special fund created to retire bonds issued to fund public infrastructure or to fund infrastructure on a pay-as-you-go basis.

In Washington State, the Community Revitalization Financing (CRF) program is the only current TIF program available to counties. The State also offers two additional TIF programs that include state matching funds but are currently closed to new applicants as they are pending additional state funding.

## **3.7 PROJECTED PROJECT FUNDING**

### **Six-Year Projected Funding and Cost Comparison**

The purpose of this section is to compare Kitsap County's dedicated capital facilities revenue sources with its planned project costs for the six-year planning horizon of 2024-2029 to understand the difference between near-term future dedicated capital revenues and planned future costs. In Kitsap County, future capital costs are generally larger than future dedicated capital revenues. This trend is seen in most counties and cities throughout Washington State, given the structural and legal limitations on capital funding sources.

Understanding the magnitude of this difference can help the County plan for ways to fill in the gap through other funding methods, such as operating transfers or bonds.

### **Estimated Project Cost**

The capital project costs shown in Exhibit 3-25 are taken from each county service provider's individual capital facilities plan for the six-year planning period (2024-2029) and estimated costs for the six-year period (2024-2029). Costs were adjusted from current year dollars to Year of Expenditure dollars (YOE\$) using an assumed annual inflation rate of 3.0 percent to align with the revenue projections presented above.

**Exhibit 3-25. Estimated Capital Project Costs by Category (2024-2029 in YOE\$)**

Project Costs	Subtotal 2024-2029
<b>Parks</b>	\$8,907,900
<b>Sewer</b>	\$164,672,000
<b>Solid Waste</b>	\$51,620,000
<b>Stormwater</b>	\$17,474,500
<b>Transportation</b>	\$115,379,000
<b>Total</b>	<b>\$358,053,400</b>

Source: Kitsap County, 2023

**Six-Year Capital Cost and Revenue Comparison by Facility Type**

Exhibit 3-27 through Exhibit 3-34 show how planned project costs compare to dedicated capital revenue sources for the six-year planning period (2024-2029). The revenues and costs are both presented in year of expenditure dollars (YOE\$).

These exhibits identify the difference between planned costs and projected dedicated revenues in the near-term, including existing fund balances in capital project funds. It is important to note that for all of the departments and service providers identified, their six-year capital plans have been balanced using non-dedicated revenue sources or bonds. These mechanisms are summarized after each exhibit.

**Exhibit 3-29. Estimated Transportation Dedicated Capital Revenues and Costs (2024-2029 in YOE\$)**

Transportation	2024-2029
<b>Dedicated Transportation Fund Revenues</b>	\$122,620,445
<b>2023 Transportation Fund Balance</b>	NA
<b>TOTAL TRANSPORTATION FUNDS AVAILABLE</b>	\$122,620,445
<b>Capital Transportation Costs</b>	\$115,379,000
<b>Estimated Dedicated Funding Surplus/(Deficit)</b>	<b>\$7,241,445</b>

Source: Kitsap County TIP; LDC, 2023

Although there is a difference between future dedicated transportation capital revenues and estimated capital costs for the planning period, the six-year adopted TIP has been balanced through the use of multiple revenue sources, including local funds, impact fees, and state and federal funds.

**Exhibit 3-30. Estimated Parks and Recreation Dedicated Capital Revenues and Costs (2024-2029 in YOE\$)**

<b>Parks (excluding amount committed to debt service)</b>	<b>2024-2029</b>
<b>Dedicated Parks Fund Revenues</b>	\$17,521,117
<b>2023 Parks Fund Balance</b>	NA
<b>TOTAL PARKS FUNDS AVAILABLE</b>	\$17,521,117
<b>Capital Parks Costs</b>	\$8,907,900
<b>Estimated Dedicated Parks Funding Surplus/(Deficit)</b>	<b>\$8,613,217</b>

*Source: Kitsap County, 2023*

Although there is a difference between future capital costs and dedicated capital revenues for the planning period, the adopted Parks CIP creates a balanced plan through the use of other funding mechanisms, including partnerships and bonds. Transfers from Conservation Futures Tax revenues also fund debt service for parks.

**Exhibit 3-31. Estimated Stormwater Management Dedicated Capital Revenues and Costs (2024-2029 in YOE\$)**

<b>Surface and Stormwater Management</b>	<b>2024-2029</b>
<b>Dedicated Stormwater Fund Revenues</b>	\$17,590,172
<b>2023 Stormwater Fund Balance</b>	NA
<b>TOTAL STORMWATER FUNDS AVAILABLE</b>	\$17,590,172
<b>Capital Stormwater Costs</b>	\$17,474,500
<b>Estimated Dedicated Stormwater Funding Surplus/(Deficit)</b>	<b>\$115,672</b>

*Source: Kitsap County, 2023*

The six-year Stormwater CIP makes up for the difference between dedicated capital revenues and costs by using stormwater utility funds and targeted grant applications to augment its dedicated revenue sources. More detail on revenue sources for planned Stormwater projects and project-specific revenue sources can be found in Chapter 4.

**Exhibit 3-32. Estimated Sewer Dedicated Capital Revenues and Costs (2024-2029 in YOES)**

Sewer	2024-2029
<b>Dedicated Sewer Fund Revenues</b>	\$164,672,000
<b>2023 Sewer Fund Balance</b>	\$18,800,000
<b>TOTAL SEWER FUNDS AVAILABLE</b>	\$183,472,000
<b>Capital Sewer Costs</b>	\$164,672,000
<b>Estimated Dedicated Sewer Funding Surplus/(Deficit)</b>	<b>\$18,800,000</b>

*Note: Year-by-year sewer costs for 2016 – 2026 were estimated from the 1-3 year and 4 – 6-year periods in the project list in Chapter 4. The year-by-year cost estimates were then escalated for inflation and rolled back up to the 6-year project period.*

*Source: Kitsap County, 2023*

Although the difference between future dedicated capital revenues and costs is large, the County has developed a funding plan that balances its six-year sewer CIP through the planned use of revenue bonds. The sewer costs and revenues analyzed in Exhibit 3-32 include those costs and revenues under the Preferred Alternative.

**Exhibit 3-33. Estimated Solid Waste Dedicated Capital Revenues and Costs (2024-2029 in YOES)**

Solid Waste	2024-2029
<b>Dedicated Solid Waste Fund Revenues</b>	\$0
<b>2022 Solid Waste Fund Balance</b>	\$22,884,000
<b>UNASSIGNED SOLID WASTE FUNDS AVAILABLE</b>	\$22,884,000
<b>SOLID WASTE FUNDS AVAILABLE TO LANDFILL CLOSURE</b>	\$13,138,000
<b>Non-Landfill Closure Capital Solid Waste Costs</b>	\$49,770,000
<b>Costs related to Landfill Closures</b>	\$1,850,000
<b>Estimated Total Dedicated Solid Waste Funding Surplus/(Deficit)</b>	\$(11,748,000)
<b>Estimated Non-Assigned Dedicated Solid Waste Funding Surplus/(Deficit)</b>	\$(9,934,000)

*Note: There are no project costs specific to years 2022 through 2036 currently available. There is a \$10 million surplus for 6-year landfill closure and no surplus for 6-year capacity project capital spending.*

*Source: Kitsap County, 2023.*

The County has balanced its six-year solid waste CIP by planning to transfer tipping fee revenues to the solid waste capital fund and its Hansville and Olalla Landfill Post Closure Funds to fill in the difference between its future costs and dedicated revenue sources.

Additionally, the County has taken on some debt via Limited Tax General Obligation (LTGO) Bonds to pay for some of the near-term projects.

### Six-Year Capital Cost and Revenue Comparison – All County Facilities

**Exhibit 3-34. Estimated General Capital Revenues and Costs (2024-2029 in YOES)**

<b>General Capital Funds (excluding amount committed to debt service)</b>	<b>2024-2029</b>
<b>General Capital Revenue</b>	\$322,403,734
<b>General Capital Fund Balance</b>	\$41,684,000
<b>TOTAL GENERAL CAPITAL FUNDS AVAILABLE</b>	\$41,684,000
<b>General Capital Costs</b>	\$0
<b>Estimated Dedicated General Capital Funding Surplus/(Deficit)</b>	\$41,684,000
<b>TOTAL DEDICATED CAPITAL FUNDS*</b>	\$364,087,734
<b>TOTAL CAPITAL NEED</b>	\$358,053,400
<b>TOTAL DEDICATED CAPITAL FUNDING SURPLUS/(DEFICIT)</b>	\$6,034,334

*Note: Total dedicated capital funds include projected revenues for all services provided by the County.*

*Source: Kitsap County, 2023*

As shown in Exhibit 3-34, there is an estimated surplus of \$6 million in total dedicated capital funding projected over the next six-year planning period.

This variance represents the structural difference between incoming dedicated capital revenues and planned capital expenditures over the six-year planning period and does not reflect the County’s likely future cash flow or ability to pay. The County has tools beyond its dedicated revenue streams with which to fund capital projects, such as reprioritization of operating revenues and its unused debt capacity.

Over the next 20-years the County has \$583M in sewer capital projects to complete due to much of the infrastructure being 40- to 50-years old and is past its useful life. Connection fees are adjusted annually based on the cost of the current 6-year CFP. The County annually applies for federal and state grants and low interest loans as a first source of additional funding to pay for capital projects. In addition, the County will go out for sewer revenue bonds to fill in funding gaps for projects, but it is dependent on bonding capacity and interest rates. Reviewing and updating the 6-year CFP annually, allows the County to reprioritize, delay, or add projects based on condition assessment/consequence of failure, capacity, regulation changes, and funding.



### 3.8 OTHER SERVICE PROVIDERS

For service providers other than Kitsap County, general funding information for each type of service has been presented in the sections below. For review of the specific funding sources for each provider, the most current CFP available for that provider has been relied on. Information has been supplemented via personal communication with provider representatives, where possible.

## 4 SERVICE AREA AND INFRASTRUCTURE DETAIL



### 4.1 ADMINISTRATION: PUBLIC BUILDINGS

#### Overview

Kitsap County's public buildings, which include government administrative offices, courtrooms, juvenile justice, maintenance facilities, and community centers, serve the county, including incorporated and unincorporated populations.

#### Inventory of Current Facilities

Exhibit 4-1 shows the location and size of each public building. The 2023 inventory shows that the County has approximately 613,371 square feet of public building space.

**Exhibit 4-1 County Public Buildings: Current Facilities Inventory**

Facility	Size (Sq Ft)	Location
Admin Building	77,946	614 Division Street Port Orchard, WA 98366
Bullard Building	10,982	614 Division Street Port Orchard, WA 98366
Coroners	10,182	5010 NW Linden Rd Bremerton, WA 98312
Courthouse	85,411	614 Division Street Port Orchard, WA 98366
Facilities Maintenance	8,760	717 Taylor Street Port Orchard, WA 98366
Givens Community Center	49,796	1026 Sidney Ave, Port Orchard, WA 98366
Kitsap County Sheriff	16,993	614 Division Street Port Orchard, WA 98366
Jail Visitation	2,132	614 Division Street Port Orchard, WA 98366
PW Annex	44,872	8600 SW Imperial Way Bremerton, WA 98312
PW Building	29,715	507 Austin Ave Port Orchard, WA 98366
PW HHW	4,000	5551 SW Imperial Way Bremerton, WA 98312
Road Shed- Central	12,202	1972 Seabeck Hwy Seabeck, WA 98380
Road Shed- North	7,226	302 NE Bernt Road Poulsbo, WA 98370
Road Shed- South	8,640	2339 SE Cedar Rd Port Orchard, WA 98367
SAU	6,400	715 Sydney Ave Port Orchard, WA 98366
Sheriff's Office Kingston	1,800	26076 Illinois Avenue NE Kingston, WA 98346
Sheriff Office Silverdale	5,616	3951 Randall Way NW Silverdale, WA 98383
Juvy/Juvy Admin	95,558	1338 SW Old Clifton Rd Port Orchard, WA 98367

Facility	Size (Sq Ft)	Location
Family Support	8,028	730 Prospect Street Port Orchard, WA 98366
DEM Warehouses	18,390	8900 Imperial Way Bremerton, WA 98312
Pacific Building	20,040	4459 SE Mile Hill Dr Port Orchard, WA 98366
BKAT	5,280	7266 Tibardis Rd NW Bremerton, WA 98311
Vacant 612	1,524	612 Sidney Ave Port Orchard, WA 98366
Vacant 808	800	808 Sidney Ave Port Orchard, WA 98366
Vacant 810	1,728	810 Sidney Ave Port Orchard, WA 98366
Vacant 816	2,044	816 Sidney Ave Port Orchard, WA 98366
Vacant 803	2,226	803 Cline Ave Port Orchard, WA 98366
Vacant 807	2,980	807 Cline Ave Port Orchard, WA 98366
Jail/KRC	70,000	661 Taylor Street Port Orchard, WA 98366
Readiness Center	2,100	661 Taylor Street Port Orchard, WA 98366
<b>Total Public Space</b>	<b>613,371</b>	

Source: Kitsap County Facilities Maintenance, 2023; LDC 2023

### Level of Service Analysis

The County Public Buildings listed above can be separated into distinct categories that each have their own LOS. The section below goes through each of these categories and their Level of Service.

### County Administration Buildings

The County's LOS for County Administration buildings is 952 square feet per 1,000 countywide population. This level was adopted in the 2012 Capital Facilities Plan Update and was unchanged in the 2016 Capital Facility Plan Update. Currently, the County has a deficit in County administration space, as shown in Exhibit 4-2.

#### Exhibit 4-2 County Administration Buildings: LOS Requirements Analysis

Time Period	Kitsap Countywide Population	Square Feet Needed to Meet LOS Standard	Current Square Feet Available	Net Reserve or Deficit
Current LOS Standard = 952 square feet per 1,000 population				
2022	280,900	267,416	190,810	(76,606)
2044	346,358	314,087	190,810	(123,277)

Source: Kitsap County Facilities Maintenance, 2023

To address future LOS deficiencies, the County can lower its LOS standards to reflect space efficiencies, as shown in Exhibit 4-3.

#### Exhibit 4-3 Potential LOS Adjustments for County Administration Buildings

Time Period	Target LOS	Estimated Deficiency	LOS Needed to Address Deficiency (SF/1000 people)
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2022	952 square feet per 1,000 population	(76,606)	679
2044	952 square feet per 1,000 population	(123,277)	551

Source: Kitsap County Facilities Maintenance, 2023

### County Maintenance Facilities

The LOS for County Maintenance Facilities is 109 square feet per 1,000 population. Currently and within the 20-year planning period, the County will be able to meet the County Maintenance Facility LOS standard, as shown in Exhibit 4-4. To be efficient with public funds, the County has outsourced its custodial services to a private company.

#### Exhibit 4-4 LOS Requirements Analysis - County Maintenance Facilities

Time Period	Kitsap Countywide Population	Square Feet Needed to Meet LOS Standard	Current Square Feet Available	Net Reserve or Deficit
Current LOS Standard = 109 square feet per 1,000 population				
2022	280,900	30,618	70,543	39,925
2044	346,358	37,753	70,543	32,790

Source: Kitsap County Facilities Maintenance, 2023

### County District Courtrooms

The LOS for County District Courtrooms is currently 0.012 courtrooms per 1,000 population. Per the space needs analysis prepared by Kitsap County, there will be 6 total District Courtrooms by 2030 and 7 total by 2045. Currently and within the 20-year planning period, the County will be able to meet the County District Courtroom LOS standard. See Exhibit 4-5.

#### Exhibit 4-5 LOS Requirements Analysis - County District Courtrooms

Time Period	Kitsap Countywide Population	Courtrooms Needed to Meet LOS Standard	Current Courtroom Available	Net Reserve or Deficit
Current LOS Standard = 0.012 courtrooms per 1,000 population				
2022	280,900	3	4	1
2044	346,358	4	4	0

Source: Kitsap County Facilities Maintenance, 2023

### County Superior Courtrooms

The LOS for County Superior Courtrooms is currently 0.021 courtrooms per 1,000 population. Per the space needs analysis prepared by Kitsap County, there will be 12 total Superior Courtrooms by 2030 and 13 total by 2045. Under current LOS standards, there is a deficit in the number of Superior Courtrooms. Currently and within the 20-year planning period, the County will be able to meet the County Superior Courtroom LOS standard.

#### Exhibit 4-6 LOS Requirements Analysis - County Superior Courtrooms

Time Period	Kitsap Countywide Population	Courtrooms Needed to Meet LOS Standard	Current Courtroom Available	Net Reserve or Deficit
Current LOS Standard = 0.021 courtrooms per 1,000 population				
2022	280,900	6	7	1
2044	346,358	7	7	0

Source: Kitsap County Facilities Maintenance, 2023

#### Juvenile Jail Facility

The Juvenile Jail facility is overseen by the Superior Court. The current LOS for juvenile facilities is 0.084 beds per 1,000 population. The County is currently meeting the LOS standard, and has a surplus of 13 beds, as shown in Exhibit 4-7.

#### Exhibit 4-7 LOS Requirements Analysis - Juvenile Jail Facility

Time Period	Kitsap Countywide Population	Beds Needed to Meet LOS Standard	Current Beds Available	Net Reserve or Deficit
Current LOS Standard = 0.084 beds per 1,000 population				
2022	280,900	24	35	11
2044	346,358	29	35	6

Source: Kitsap County Facilities Maintenance, 2023

#### County Community Centers

The LOS for County Community Centers is 200 square feet per 1,000 population. With the successful relocation of the Kingston Community Center (now the Village Green Community Center) the County will be able to meet the Community Center LOS standard. See Exhibit 4-8.

The old Kingston Community center relocated due to the realignment of state route 104. The center was sold, and proceeds were donated to The Village Green group who used the funds along with decades of fundraising to build the Village Green Community Center in Kingston. The building is approximately 23,000 square feet.

#### Exhibit 4-8 LOS Requirements Analysis - County Community Centers

Time Period	Kitsap Countywide Population	Square Feet Needed to Meet LOS Standard	Current Square Feet Available	Net Reserve or Deficit
Current LOS Standard = 200 square feet per 1,000 population				
2022	280,900	56,180	72,796	16,616
2044	346,358	69,271	72,796	3,525

Source: Kitsap County Facilities Maintenance, 2023

## Capital Projects and Funding

Exhibit 4-9 Public Buildings Capital Facilities Projects, 2024-2044 (All numbers in 2023 \$1000s)

Category/Project Description	Revenue Sources	Cost 2024-2026	Cost 2027-2029	Cost 2030-2044	Total Cost
<b>Category I: Capacity Increasing Projects</b>					
Courthouse Addition & Adaptive Re-Use	REET I, Bonds, Fund Balance	7,000	3,000	0	10,000
<b>Category II: Capital Replacement, Maintenance and Operations</b>					
Campus-Wide HVAC Control System Upgrade	Undesignated Fund Balance	150	0	0	150
Courthouse Awning Replacement	Undesignated Fund Balance	20.43	0	0	20.43
Jail & Courthouse Roof Replacement	Jail and Juvenile Sales Tax	4,000	0	0	4,000
Jail Camera System Replacement	Jail and Juvenile Sales Tax	2,400	0	0	2,400
Jail Fire Suppression System Upgrade	Jail and Juvenile Sales Tax	300	0	0	300
Jail HVAC System Replacement	Grant	7,072	0	0	7,072
Juvenile Building Cleaning & Painting	Jail and Juvenile Sales Tax	425	0	0	425
Kitsap Recovery Center HVAC Fire Damper Repair	Undesignated Fund Balance	55	0	0	55
Silverdale Sheriff's Office Fencing & Gate Install	Undesignated Fund Balance	202.74	0	0	202.74
2015 LTGO Bond Debt Service	REET I	1,802	1,382.6	0	3,184.6
2020 LTGO Bond Debt Service	REET I	765.7	758.2	0	1,523.9
2022 LTGO Bond Debt Service	REET I	1,208.49	0	0	1,208.49
2022 LTGO Bond Debt Service	REET II	737.9	0	0	737.9

Source: Kitsap County Facilities Maintenance, Public Buildings Capital Facilities Plan 2024 - 2029, 2023

Exhibit 4-10 shows the public building capital facilities project costs and Exhibit 4-11 shows the revenue sources for the planned capital facilities projects.

**Exhibit 4-10 Public Buildings Capital Facilities Project Costs, 2024-2044 (All numbers in 2023 \$1000s)**

Category Summary	Cost Years 2024-2029	Cost Years 2030-2044	Total Cost
<b>Category I (Capacity Projects Required to Meet LOS)</b>	10,000	0	10,000
<b>Category II (Other Projects Needed for Maintenance and Operations)</b>	21,280	0	21,280
<b>Total</b>	31,280	0	31,280

*Source: Kitsap County Facilities Maintenance, Public Buildings Capital Facilities Plan 2024 - 2029, 2023*

**Exhibit 4-11 Public Buildings Capital Facilities Revenue Sources, 2024-2044 (All numbers in 2023 \$1000s)**

Revenue Source	Revenue Year 2024-2029	Revenue Years 2030-2044	Total Revenue
Bond Financing	0	0	0
Grants	7,072	0	7,072
Jail & Juvenile Salex Tax	7,125	0	7,125
REET I	15,917	0	15,917
REET II	737.9	0	737.9
Undesignated Fund Balance	428.1	0	428.1
<b>Total</b>	31,280	0	31,280

*Source: Kitsap County Facilities Maintenance, Public Buildings Capital Facilities Plan 2024 - 2029, 2023*

## 4.2 PUBLIC SAFETY: LAW ENFORCEMENT

### Overview

The Kitsap County Sheriff Office serves the population of unincorporated Kitsap County. The Department is responsible for law enforcement, maintaining order, crime investigation and prevention, traffic control, marine enforcement, process, and service of civil papers for the courts, service of criminal warrants, and other emergency services.

The Sheriff's main office is located in Port Orchard and is the home to the offices of the Sheriff, Undersheriff, records, detective, patrol chief, administration, corrections and the evidence/ storage rooms. Satellite offices include the North Office in Kingston which has

been closed and is anticipated to be relocated in the future. The Sheriff's Office used to staff a storefront in Silverdale Mall that is now closed. The Silverdale office remains open.

The County correctional facilities, which service the population of incorporated cities and the unincorporated county, consist of a jail and a juvenile facility. The jail is located on the courthouse campus in Port Orchard. The jail is attached to the second floor of the courthouse and is accessible from the sheriff's main office. The County correctional facilities used a work release facility in the past; however, that facility is no longer used by the Sheriff's Office. The Superior Court operates the Juvenile Jail Facility.

## Inventory of Current Facilities

### Exhibit 4-12 Inventory of Law Enforcement Facilities

Facility Name	Location	Size/Quantity (SF and beds)
Main Office	614 Division Street, Port Orchard	11,734
Central Office	3133 Randall Way, Silverdale, WA	5,620
Jail Administrative Offices	614 Division Street, Port Orchard	927
Office of Professional Standards/Training*	5102 Linden St. Bremerton	1,540
Kingston Office	26076 Illinois Avenue NE, Suite A, Kingston	1,200
Readiness Classroom*	1211 Carver St. Bremerton	1,275
<b>Total Office Space</b>		<b>22,296</b>
Readiness Center Garage*	5150 Linden St. Bremerton	3,245
Silverdale Storage Container*	3951 Randall Way, Silverdale, WA	250
Vehicle Impound lot, Carport and Storage Building	South Road Shed off Cedar Street	2,960
Jail/Equipment Storage Room	614 Division Street, Port Orchard	1,868
Property Evidence Room	614 Division Street, Port Orchard	4,095
<b>Total Storage Space</b>		<b>12,418</b>
Jail Corrections Facility	614 Division Street, Port Orchard	127,103
<b>Total Jail Space</b>		<b>127,103</b>

Notes: \* The County leases these spaces.

Source: Kitsap County Sheriff's Office, 2023

The Sheriff's Office-operated Jail Facility does not use 58 of the 519 beds, because it does not have the budget to hire the staff to reopen this housing area. In 2023 the jail received a grant to open this housing unit. It is anticipated that the jail will be near full capacity by the end of 2023.

## Level of Service Analysis

### Sheriff's Office

The Level of Service (LOS) standard for the Sheriff's Office space is 129 square feet per

1,000 unincorporated population. The County currently has a 62 square feet surplus of office space; however, that surplus will soon become a deficit. This deficit is expected to grow through 2044 as the unincorporated population increases. To address deficiencies, the County could choose to add facilities or adjust its LOS standards to reflect likely future service levels given estimated population growth and current facility plans.

**Exhibit 4-13 Level of Service Analysis - Sheriff's Office**

Time Period	Kitsap Unincorporated County Population	Square Feet Needed to Meet LOS Standard	Square Feet Available	Net Reserve or (Deficit)
Current LOS Standard = 129 square feet per 1,000 population				
2022	181,784	23,450	22,296	(1,154)
2044	210,609	27,169	22,296	(4,873)

Source: Kitsap County Sheriff's Office, 2023

To address deficiencies, the County could choose to add facilities or adjust its LOS standards to reflect likely future service levels given estimated population growth and current facility plans. Adjusting its LOS is not recommended due to existing overcrowded office conditions. See Exhibit 4-14

**Exhibit 4-14. Potential LOS Adjustments for Sheriff's Office**

Time Period	Target LOS	Estimated Deficiency	LOS Needed to Address Deficiency (SF/1000 people)
2022	129 square feet per 1,000 population	(1,154)	123
2044	129 square feet per 1,000 population	(4,873)	106

Source: Penelope Sapp, Chief of Corrections, Lt. Keith Hall, Kitsap County Sheriff's Office – Jail. 2023.

**County Jail Facilities**

The LOS standard for County Jail Facilities is 1.43 beds per 1,000 countywide population. Based on this standard there is a surplus of jail beds, but this surplus will not continue through 2044. It is anticipated that the jail will be at full capacity within the next year depending on population trends and changes in criminal laws that may occur during that time frame.

**Exhibit 4-15 Level of Service- County Jail Facilities**

Time Period	Kitsap Countywide Population	Beds Needed to Meet LOS Standard	Beds Available	Net Reserve or (Deficit)
Current LOS Standard = 1.43 beds per 1,000 population				
2023	280,900	402	407	5
2044	346,358	495	407	(88)



Source: Kitsap County Sheriff's Office, 2023

Kitsap County is considering an alternative level of service for its jail facility based on incarceration rates. The Bureau of Justice Statistics for jails estimated a typical incarceration rate of 224 inmates per 100,000 population in 2019 (Zend & Minton, 2021). Kitsap County's incarceration rate was only 168 per 100,000 population in 2014, 170 in 2013, and 167 in 2012. Kitsap County incarcerates 28 percent fewer people than the average for other jurisdictions in the nation. In the subsequent years average daily population was, 2015: 385, 2016: 399, 2017: 407, 2018: 415, 2019: 370.

There is no current plan or timeline to increase available space, and assuming that incarceration rate will return to pre-pandemic levels, it is predicted that the county will see a significant shortage in available beds to meet the LOS in the near future.

*Alternative LOS Based on Incarceration Rate*  
**Exhibit 4-16 Alternative LOS Based on Incarceration Rate**

Time Period	Kitsap Countywide population	Beds Needed to Meet LOS Standards	Beds Available	Net Reserve or Deficit
Alternative LOS Standard = Kitsap County Incarceration Rate: 168 per 100,000 Population				
2023	280,900	402	472	(70)
2044	346,358	582	407	(175)

Source: Kitsap County Sheriff's Office, 2023

Potential LOS Adjustments could be considered if incarceration rate remains lower than expected or facilities are expanded.

### 4.3 PUBLIC SAFETY: FIRE PROTECTION

#### Overview

Kitsap County receives Fire, Rescue, and Emergency Medical Services from the six local fire departments and the federal fire department serving the Navy bases within the county. Through automatic-aid agreements, the departments provide seamless all-hazards emergency response to all areas of the county, regardless of jurisdiction. While Kitsap County is the authority having jurisdiction for the unincorporated areas of the county for fire code enforcement, the fire departments operate independently, receiving no regular funding or governance from Kitsap County.

Excluding the Bainbridge Island Fire Department, there are a total of 38 fire stations in the county. Some stations are staffed with volunteers, which is important for serving areas of the county that are more remote. Total stations are listed in Exhibit 4-17.

### Exhibit 4-17 Staffed and Volunteer Stations Numbers

Fire District	Total Stations	Fully Staffed Station	Volunteer Station
North Kitsap Fire and Rescue (NFKR)	5	4	1
Poulsbo Fire Department	5	4	1
Bainbridge Island	3	3	0
Central Kitsap Fire and Rescue (CKFR)	11	11	0
Bremerton	3	3	0
South Kitsap Fire and Rescue (SKFR)	11	7	4
<b>Total</b>	<b>38</b>	<b>32</b>	<b>6</b>
<b>Total Excluding Bainbridge Island</b>	<b>35</b>	<b>29</b>	<b>6</b>

Source: Kitsap County Fire Districts and City Departments, 2023

### County Fire Protection Districts

Fire protection districts in Kitsap County have entered into agreements with the Washington State Department of Natural Resources (DNR) to jointly fight fires on state-owned land and private forestland. DNR has no responsibility or authority in incorporated areas of the county. Each municipality is responsible for all fires within its boundaries. For the unincorporated lands, DNR and some fire districts have split up fire protection and suppression responsibility through creation of a fire protection zone (FPZ) (see WAC 332-24-710 Forest protection zone—Kitsap County). DNR has protection responsibility for non-structural fires within an FPZ. The fire district protects all other unincorporated areas as well as structures within the FPZ. DNR policy is that it will not fight structure fires. Any structure within a fire district's boundaries is the responsibility of the district. DNR also protects certain state land parcels regardless of location. DNR is a signatory on the countywide mutual aid agreement and will respond as mutual aid when requested.

### Inventory of Current Facilities

Exhibit 4-18 summarizes the capital facilities available for each fire district and includes each district's fire rating, presence of EMS service, and service area population.

### Exhibit 4-18 Current Facilities of Each Fire District

Fire Protection Provider	Number of Stations	WSRB 2020 Rating	Fire and EMS Units*	Estimated 2023 OFM Service Area Population
North Kitsap Fire and Rescue (NFKR)	5	4	23	20,730
Poulsbo Fire Department	5	4	27	27,064
Central Kitsap Fire and Rescue (CKFR)	11	3	79	75,589
Bremerton	3	3	17	45,000
South Kitsap Fire and Rescue (SKFR)	11	3	35	64,698

Source: Kitsap County Fire Districts 2023

\* A unit is the combination of vehicle and equipment that responds to a fire or EMS situation, including engines, ladder trucks, water tenders, rescue units, aid cars and ambulances, and rehabilitation units, but not including staff or miscellaneous vehicles.

### Response Time Objectives

State statute (RCW 52.33) requires fire districts with a predominance of career staff (as opposed to volunteers) to adopt and annually report response time objectives. These objectives may change over time to respond to each district's resources and needs. Current response time objectives by fire department or district are shown in Exhibit 4-19.

### Exhibit 4-19 Response Times by Fire Department and District

District / Department	Response Time Objective
North Kitsap Fire and Rescue (NFKR)	The first unit, capable of beginning mitigation of the emergency, arrive on scene within 7:59 minutes of dispatch on 90% of all priority alarms.
Poulsbo Fire Department	Turnout time for fire: 86 sec Turnout time for priority 1 and 2 events: 67 sec Turnout time for medical events: 64 sec Response time of units to suburban calls for service: 285 secs Rural response time goals: <600secs
Bainbridge Island	<b>EMS</b> Turnout: 60 seconds Response: 5 minutes <b>Fire</b> Turnout: 90 seconds Response: 5:30 minutes
Central Kitsap Fire and Rescue (CKFR)	Turnout time goal: 90 seconds, met 90 percent of the time Suburban fire/EMS: 8 minutes Rural fire/EMS: 12 minutes Wilderness fire/EMS: 20 minutes
Bremerton	Response Time Objective 6 Minutes

District / Department	Response Time Objective
South Kitsap Fire and Rescue (SKFR)	Turnout time: Travel times for fire responses (urban, suburban, rural): 8:00 – 18:15 Travel times for EMS services (urban, suburban, rural): 8:00 – 14:15

*Source: Kitsap County Fire Districts, 2023*

### CFP Level of Service Standard

Consistent with GMA requirements to establish levels of service for improvements necessary for development, this CFP provides a minimum countywide measure of need for fire services. All fire districts in Kitsap County must achieve the following minimum Washington Surveying and Ratings Bureau (WSRB) Ratings:

- Fire districts with career staff serving urban areas must have a minimum WSRB rating of 4. Urban areas include city limits and UGAs.
- The portions of districts serving rural areas with non-career staff must have a minimum WSRB Rating of 5. Rural areas consist of lands outside of UGAs and city limits.

### Fire Services and WSRB Ratings

The WSRB is a non-profit agency that evaluates fire protection capabilities of cities and fire protection districts. In turn, insurance companies use WSRB Protection Classes to help establish fair premiums for fire insurance. The evaluation process includes a review of the following that are relevant to capital facilities: distribution of fire stations and fire companies, apparatus equipment, water supply, and water pressure. Other activities reviewed include personnel and training, response to alarms, dispatching, code enforcement, and public education.

Fire districts and departments respond to fires and EMS calls from their stations with their apparatus, but their response occurs within a broader system where other agencies have important roles.

- Kitsap County is responsible for planning for population and employment growth under GMA and provides housing opportunities through zoning. As described above, proposed LOS standards for fire services rely on WSRB ratings and are higher in more densely populated areas than in rural areas. The exhibits below show fire services and population density in Kitsap County in 2044 under the Preferred Alternative and today, respectively. The population growth will increase not only the number of calls but also tax revenue available to service providers.

- The Kitsap County Fire Marshal's Office works to enhance fire safety through quality fire inspections, plan review, fire investigation, and fire prevention education; County fire marshal services are applicable in all districts except within the City of Bremerton, which provides its own services.
- Water service providers are responsible for the water supply and fire flow pressure, in tandem with County building and fire codes.

Selection of the WSRB-based ratings for the Fire Service LOS reflects that fire protection is based on the collective efforts of the fire districts, Kitsap County, cities, and water providers. Ensuring adequate staff resources for planning and permitting (e.g., County fire marshal services) will be important to consider at the time of the County's annual budget. During the development review process, the County will require consistency with the fire code and water availability. The County will also interface with fire districts and cities and discuss their fire protection capital investments at the time of CFP updates.

### Central Kitsap Fire and Rescue

Central Kitsap Fire and Rescue (CKFR) is one of the largest fire service providers in Kitsap County. CKFR provides fire and emergency medical services response to approximately 74,010 citizens in a service area of approximately 115 square miles. Because of its location, CKFR has a significant amount of waterfront in its service area—40 miles of tidal waterfront with adjacent saltwater area and numerous small lakes and ponds.

Communities recognized within CKFR are Silverdale, Olympic View, Seabeck, Lake Symington, Lake Tahuya, Island Lake, Ridgetop, Crosby, Hintzville, Holly, Brownsville, Gilberton, Meadowdale, North Perry, Illahee, Tracyton, Chico, Wildcat Lake, Kitsap Lake, and Erlands Point.

### Inventory of Current Facilities

Exhibit 4-20 Inventory of Current Facilities – Central Kitsap Fire and Rescue

Inventory	Existing
<i>Fire Units</i>	
Fire Engines (1,000-1,500 Gallons-Per-Minute Pump Capacity And 750-1,000-Gallon Tank Capacity)	16
Brush Engine	2
Ladder Truck (105-Foot)	2
Water Tenders	6
3,000-Gallon Tank Capacity Tenders	5
1,250-Gallon Tank Capacity Tender	1
Rescue Units	1

<b>Inventory</b>	<b>Existing</b>
Medical Units	8
Advanced Life Support	4
Basic Life Support	4
Emergency Scene Rehabilitation Unit	1
Rescue Boat (17-Foot)	1
Miscellaneous Vehicles (e.g., Staff, Utility, Delivery)	28
<i>Staff</i>	
Fire Chief	1
Deputy Chief	1
Assistant Chief	3
Battalion Chief	3
Captains	8
Lieutenants	11
FF/PM/EMT/AO	82
Company Officer of Operations	1
Medical Officer	1
Training Officers	2
Chief Administrative Officer	1
Chief Business Officer	1
IT Manager	1
HR Manager	1
Public Information Officer	1
Executive Assistant	1
Administrative Assistant	2
Accounting Supervisor	1
Accounting Specialist	2
Purchasing Agent	1
Logistics & Supply Technician	1
IT Technician	1
Facilities Lead Technician	1
Facilities Maintenance Assistant	1
Fleet Maintenance Supervisor	1
Lead Emergency Vehicle Technician	1
Emergency Vehicle Technician	1
Mechanic	1
Fleet Logistics Technician	1
Volunteers	23

Source: CKFR, 2023

## Level of Service Analysis

### Exhibit 4-21 Level of Service Analysis of Emergency Services

<i>Response Time Objectives</i>	<i>Time</i>
Turnout time goal	90 seconds, met 90 percent of the time
Suburban fire/EMS	8:00 minutes
Rural fire/EMS	12:00 minutes
Wilderness fire/EMS	20:00 minutes
<i>Other</i>	
WSRB Fire Rating	3

Source: CKFR, 2023

## Capital Projects and Funding

Exhibit 4-22 shows CKFR's planned capital projects. Exhibit 4-23 shows the capital projects costs for 2024-2029 and 2030-2044 and Exhibit 4-24 shows the capital project revenues for the same time periods.

### Exhibit 4-22. Central Kitsap Fire and Rescue Capital Projects (All numbers are in 2024 \$1000s)

Category/Project Description	Revenue Source	Cost 2024-2029	Cost 2030-2044	Total Cost
<b>Category I: Capacity Increasing Projects</b>				
Station 45 – New / Replacement	Cap Bond	9,093		9,093
Station 57 – New	Cap Bond	9,815		9,815
Station 51 – New / Replacement	Cap Bond	15,570		15,570
Station 41 – *Replacement or Remodel	Cap Bond	415,763		415,763
<b>Category II: Capital Replacement, Maintenance and Operations</b>				
Station 42/56/64 – Seismic Upgrades	Cap Bond	1,233		1,233
Station 56 – Roofing & Access Control	Capital Reserve	300		300
Station 64 – Paving & Access Control	Capital Reserve	100		100
General Station Repairs and Upgrades (14-year projection)	General Fund		8,082	8,082

Source: CKFR, 2023

**Exhibit 4-23. Central Kitsap Fire and Rescue Capital Project Costs (All numbers are in 2024 \$1000s)**

Category Summary	Cost Years 2024-2029	Cost Years 2030-2044	Total Cost
<b>Category I (Capacity Projects Required to Meet LOS)</b>	50,241	0	50,241
<b>Category II (Other Projects Needed for Maintenance and Operations)</b>	1,633	8,082	9,715
<b>Total</b>	0	0	59,956

Source: CKFR, 2023

**Exhibit 4-24 Central Kitsap Fire and Rescue Capital Project Revenues (All numbers are in 2024 \$1000s)**

Revenue Source	Revenue Years 2024-2029	Revenue Years 2030-2044	Total Revenue
<b>Bond</b>	0	0	00
<b>Capital Facilities Bond*</b>	51,474	0	51,474
<b>General/Capital Reserve</b>	400	8,082	8,482
<b>Total</b>	51,874	8,082	59,956

Source: CKFR, 2023 Notes: \* Including remaining bond proceeds from previously issued capital bond debt. No new capital facilities debt is planned to be issued beyond 2024.

### North Kitsap Fire and Rescue

#### Overview

NKFR, located in the northeast portion of the county, provides fire and emergency medical services (EMS) to an area of approximately 47 square miles and serves an estimated population of 20,651 in 2022 (OFM, 2022). The product of multiple mergers, NKFR serves the communities of Kingston, Hansville, Eglon, Indianola, Gamblewood, Jefferson Beach, Miller Bay, Suquamish, and approximately 80 percent of the Port Madison Indian Reservation. By contract, the district also provides fire and EMS services to the Port Gamble S’Klallam Indian Reservation at Little Boston whose territory does not fall within the district’s legal boundaries. The contract for services adds an estimated 1,010 persons and five square miles to its service responsibilities.



## Inventory of Current Facilities

Exhibit 4-25 Inventory of Current Facilities - North Kitsap Fire and Rescue

Inventory	Existing
<i>Fire Units</i>	
Fire engines	5
Reserve fire engines	1
Ambulances	5
Reserve ambulances	1
Water Tenders	3
Wildland Engine	1
Fire Boat	1
Miscellaneous vehicles, if any (e.g., staff, utility, delivery)	6
<i>Staff</i>	
Total Full-time Staff	58
Administration	4
Administrative Support	2
Community Services	1
Suppression/ EMS	44
Facilities Management	1
Fleet Services	4
Full-time Mechanics	4
Facilities Maintenance Manager	1
Total Volunteers	9
Tender Operations (Volunteers)	6
Chaplain Services (Volunteers)	2
Community Services (Volunteers)	1

Source: NKFR, 2023

## Level of Service Analysis

Exhibit 4-26 Level of Service Analysis- North Kitsap Fire and Rescue

Response Time Objectives	Time (minutes)
Structure Fires Turnout Time Goal	2:45
Structure Fires Travel Time Goal	7:50
EMS (Basic Life Support) Turnout Time Goal	2:00
EMS (Basic Life Support) Travel Time Goal	8:40
EMS (Advanced Life Support) Turnout Time Goal	2:00
EMS (Advanced Life Support) Travel Time Goal	8:40
<i>Other</i>	
WSRB Fire Rating	4

Source: NKFR, 2023

## Capital Projects and Funding

NKFR has identified several major priority areas for which significant capital investments will be needed. The following section describes these priority areas at a high level.

Exhibit 4-27 shows NKFR's planned capital projects. Exhibit 4-28 shows the capital projects costs for 2024-2029 and 2030-2044 and Exhibit 4-29 shows the capital project revenues for the same time periods.

### Exhibit 4-27 North Kitsap Fire and Rescue Capital Projects (All numbers in 2024 \$1000s)

Category/Project Description	Revenue Source	Cost 2024-2029	Cost 2030-2044	Total Cost
<b>Category I: Capacity Increasing Projects</b>				
None at this moment				
<b>Category II: Capital Replacement, Maintenance and Operations</b>				
Replace Fire Station 84.			7,268	7,268
Replace Generators at Stations 81, 85, and 89.		480		480
Purchase apparatus		1,585	2,000	3,585
Renovate – mechanic shop		150		150

Source: NKFR, 2023

Planning for the future of NKFR's facilities, apparatus, and equipment is critical to maintaining the high level of service expected of North Kitsap Fire and Rescue by the communities we serve. The department has several large capital project needs, such as a new Fire Station 84, renovation of the vehicle maintenance facility, and the replacement of the existing generators at Fire Station 81 (Headquarters in Kingston), Fire Station 85 (South Kingston Road), and Fire Station 89 (Hansville). In addition, purchasing new apparatus will be a continual need given the limited service life of apparatus. This varies among the types of vehicles. For example, a new fire engine may last 20 years, but an ambulance normally has a much shorter service life due to higher utilization rates and mileage per year.

**Exhibit 4-28 North Kitsap Fire and Rescue Capital Project Costs (All numbers in 2024 \$1000s)**

Category Summary	Cost Years 2024-2029	Cost Years 2030-2044	Total Cost
<b>Category I (Capacity Projects Required to Meet LOS)</b>	0	0	0
<b>Category II (Other Projects Needed for Maintenance and Operations)</b>	2,215	9,268	11,483
Total	2,215	9,268	11,483

Source: NKFR, 2023

**Exhibit 4-29 North Kitsap Fire and Rescue Capital Project Revenues (All numbers in 2024 \$1000s)**

Revenue Source	Revenue Years 2024-2029	Revenue Years 2030-2044	Total Revenue
Bond*	TBD	TBD	TBD
Capital Facilities Bond*	TBD	TBD	TBD
Total	TBD	TBD	TBD

Notes: \*Exact amounts not yet determined.

Source: NKFR, 2023

NKFR utilizes multiple sources of funding for large capital projects. These include voter-approved measures such as bonds and levies. Other funding mechanisms include awarded grants and financing options such as low-interest loan programs available through Washington State and financial institutions. Full funding of this capital plan depends on NKFR's annual levy being maintained at a rate that accounts for operational needs as well as funding capital projects, if possible, without acquiring additional funding. The maximum fire levy rate allowed by Washington State law is \$1.50 per \$1,000 of assessed valuation. Capital bonds or special levies may be needed as well as additional funding measures. Through annual tax levies and bonds, the taxpayer will fund 100 percent of the 20-year capital needs if grants and other non-tax-based funding is not attained. The financial feasibility is dependent upon continued support from taxpayers and obtaining other funding mechanisms if possible.

## South Kitsap Fire and Rescue

### Overview

SKFR covers 118 square miles and serves a population of approximately 80,000 as of 2023. Within the service area there are 22 miles of tidal waterfront with adjacent saltwater area, plus numerous small lakes and ponds. SKFR also covers a considerable amount of DNR land on a contractual basis.

SKFR serves the City of Port Orchard and the Port of Bremerton's Airport and Olympic View Industrial Park under a contractual agreement. Fourteen percent of the water for firefighting is provided by water districts and systems. Fire district tenders provide water for firefighting in the remaining 73 percent of the district.

SKFR responds to all types of fire, medical, and related emergency situations from 12 stations throughout the district. Six stations are staffed with career employees 24 hours per day while another six stations are not.

### Inventory of Current Facilities

Exhibit 4-30 Inventory of Current Facilities – South Kitsap Fire and Rescue

Inventory	Existing
<i>Fire Units</i>	
Engines	13
Medic Units	4
Brush Trucks	2
Aid Units	5
Tenders	7
Ladder Truck	1
Air Support Unit	1
Command Vehicle	2
MCI Unit	0
<i>Staff</i>	
Commissioners	5
Fire Chief	1
Deputy Chief	2
Division Chiefs	3
Battalion Chiefs	3
Deputy Fire Marshal	0
Computer Technician	2
Vehicle Maintenance	3
Facilities Maintenance	4
Admin Support Staff	8
Lieutenants	14

Inventory	Existing
Captains	7
Paramedics	21
Career Fire Fighters	48
<b>Total Staff:</b>	
Volunteer Lead Battalion Chief	1
Volunteer Battalion Chiefs	0
Volunteer Captains	3
Volunteer Lieutenants	5
Volunteer Firefighters	10
Volunteer First Responders	7
Chaplains	5
Volunteer Support Personnel	11
<b>Total Volunteers:</b>	42
<b>Number of Stations</b>	12

Source: SKFR, 2023

## Level of Service Analysis

### Exhibit 4-31 Level of Service Analysis – South Kitsap Fire and Rescue

Response Time Objectives	Time
Turnout time	Goal of 90 seconds or less 90 percent of the time.
Travel times for fire responses (depends on the urban, suburban, or rural nature of the call)	8:00 minutes – 18:15 minutes
Travel times for EMS services (depends on the urban, suburban, or rural nature of the call)	8:00 minutes – 14:15 minutes
<i>Other</i>	
WSRB Fire Rating	3

Source: SKFR, 2023

## Capital Projects and Funding

Exhibit 4-32 shows SKFR's planned capital projects. Exhibit 4-33 shows the capital projects costs for 2024-2029 and 2030-2044 and Exhibit 4-34 shows the capital project revenues for the same time periods.

Exhibit 4-32. South Kit

sap Fire and Rescue Capital Projects (All numbers are in 2024 \$1000s)

Category/Project Description	Revenue Source	Cost 2024-2029	Cost 2030-2044	Total Cost
<b>Category I: Capacity Increasing Projects</b>				
Fire Equipment	General Fund	280		280
EMS Equipment	General Fund	300		300
<b>Category II: Capital Replacement, Maintenance and Operations</b>				
General Maintenance	General Fund	450	1,050	1,500
Staff Vehicle Replacement	General Fund	100		100
Command Vehicle Replacement	General Fund	50		50
Ambulance Replacement	General Fund	275		275
Fire Engine Replacement	General Fund	900		900

Source: SKFR, 2022 Strategic Plan

Exhibit 4-33. South Kitsap Fire and Rescue Capital Project Costs (All numbers are in 2024 \$1000s)

Category Summary	Cost Years 2024-2029	Cost Years 2030-2044	Total Cost
<b>Category I (Capacity Projects Required to Meet LOS)</b>	580	0	580
<b>Category II (Other Projects Needed for Maintenance and Operations)</b>	1,775	1,050	2,825
<b>Total</b>	2,355	1,050	3,405

Source: SKFR, 2022 Strategic Plan

Exhibit 4-34 South Kitsap Fire and Rescue Capital Project Revenues (All numbers are in 2023 \$1000s)

Revenue Source	Revenue Years 2024-2029	Revenue Years 2030-2044	Total Revenue
Bond*	TBD	TBD	TBD
Capital Facilities Bond*	TBD	TBD	TBD

Revenue Source	Revenue Years 2024-2029	Revenue Years 2030-2044	Total Revenue
General Fund	2,355	1,050	3,405
Total	2,355	1,050	3,405

Notes: \*Exact amounts need to be voter approved and have not yet been determined.

Source: SKFR, 2023

## Bremerton Fire Department

### Overview

The City of Bremerton Fire Department (BFD) provides emergency and non-emergency fire, rescue, and medical services to approximately 45,000 residents of Bremerton. On average, the Bremerton Fire Department received 0.22 calls per capita annually between 2012 and 2022, including both fire and EMS calls. There have been an additional 2,223 emergency responses since 2015. These added calls have impacted, and will continue to impact, the Department's ability to respond quickly, and it is likely that investment will be needed to run the service at the desired response time of 6.0 minutes.

### Inventory of Current Facilities

#### Exhibit 4-35 Inventory of Current Facilities - Bremerton Fire Department

Inventory	Existing
<i>Fire Units</i>	
Command	2
Engines	5
Medic Units	6
Ladder Truck	2
Type V Brush Engine	1
Rescue/Fire Boat	1
<i>Staff</i>	
Battalion Chief/ Training-Safety	1
Battalion Chiefs	3
Capital/ Fire Marshal	1
Captain/ Medical Officer	1
Lieutenant of Training	1
Fire Chief	1
Fire Prevention Specialist	2
Firefighters/ Mechanics	3
Firefighters/ SCBA Repair Persons	3
Firefighters	22
Lieutenants	9
Line Personnel	60

Inventory	Existing
Senior Specialist	1
Paramedics	17
Staff Personnel	9
Station Captains	3
Assistant Chief	1
<b>Total Staff:</b>	
<b>Number of Stations</b>	12

Source: Bremerton Fire Department, 2023

## Level of Service Analysis

### Exhibit 4-36 Level of Service Analysis – Bremerton Fire Department

Response Time Objectives	Time
Response Time	6 minutes
<i>Other</i>	
WSRB Fire Rating	3

Source: Bremerton Fire Department, 2023

## Capital Projects and Funding

Exhibit 4-37 shows BFD's planned capital projects. Exhibit 4-38 shows the capital projects costs for 2024-2029 and 2030-2044 and Exhibit 4-39 shows the capital project revenues for the same time periods.

### Exhibit 4-37. Bremerton Fire Department Capital Projects (All numbers are in 2023 \$1000s)

Category/Project Description	Revenue Source	Cost 2024-2029	Cost 2030-2044	Total Cost
<b>Category I: Capacity Increasing Projects</b>				
New Fire Station	NA		12,000	12,000
<b>Category II: Capital Replacement, Maintenance and Operations</b>				
One ladder truck replacement	NA	2,000		2,000
Two fire engines replacement	NA	2,600		2,600
One fire boat replacement	NA	1,000		1,000

Source: Bremerton Fire Department, 2023

### Exhibit 4-38. Bremerton Fire Department Capital Project Costs (All numbers are in 2023 \$1000s)

Category Summary	Cost Years 2024-2029	Cost Years 2030-2044	Total Cost
<b>Category I (Capacity Projects Required to Meet LOS)</b>		12,000	12,000



<b>Category II (Other Projects Needed for Maintenance and Operations)</b>	5,600		5,600
<b>Total</b>			17,600

Source: Bremerton Fire Department, 2023

**Exhibit 4-39. Bremerton Fire Department Capital Project Revenues (All numbers are in 2023 \$1000s)**

Revenue Source	Revenue Years 2024-2029	Revenue Years 2030-2044	Total Revenue
<b>Bond</b>	Need voter approval		
<b>Capital Facilities Bond</b>		Need voter approval	
<b>Total</b>			17,600

Source: Bremerton Fire Department, 2023

## Poulsbo Fire Department

### Overview

The Poulsbo Fire Department is an all-hazard emergency response agency, providing fire protection, rescue, and emergency medical services to the 27,064 residents of Kitsap County Fire Protection District #18. The Fire District protects the City of Poulsbo and the unincorporated area of North Kitsap from Keyport to Port Gamble.

The Fire District maintains four fire stations. Stations 71, 72, and 77 are staffed 24/7. Station 73 is staffed by volunteers. The Fire District also maintains a boat house in the Port of Poulsbo, and a Training Tower at Station 77. The District is currently in the process of constructing a new fire station on Viking Ave, Station 76, which will be fully staffed in 2025.

### Inventory of Current Facilities

**Exhibit 4-40 Inventory of Current Facilities – Poulsbo Fire Department**

Inventory	Existing
<i>Fire Units</i>	
Engines	6
Tenders	2
Medic Units	4
Aid Units	2
Rescue Boat	2
Several Staff Cars	9
Other/Misc.	0
<i>Staff</i>	
Fire Chief	1

Inventory	Existing
Deputy Chiefs	1
A Shift	14
B Shift BC	14
C Shift BC	14
Float/Day Shift Firefighters	6
Volunteer Firefighters	0
Volunteer EMTS/IMT	6
Administrative Director	1
Administrative/Finance Specialist	2
Public Education PIO	0
Finance Director	1
Deputy Fire Marshall	1
EMS Prevention Fire CARES Program	1
<b>Total Staff:</b>	
<b>Number of Stations</b>	12

Source: Poulsbo Fire Department, 2023

## Level of Service Analysis

### Exhibit 4-41 Level of Service Analysis – Poulsbo Fire Department

Response Time Objectives	Time
Turnout time for fire	86 sec
Turnout time for priority 1 and 2 events	67 sec
Turnout time for medical events	64 sec
Response time of units to suburban calls for service	285 secs
Response time of units to rural calls for service	<10 mins
<i>Other</i>	
WSRB Fire Rating within city limits	4
WSRB Fire Rating outside city limits	4

Source: Poulsbo Fire Department, 2023

## Capital Projects and Funding

### Exhibit 4-42. Poulsbo Fire Department Capital Projects (All numbers in 2024 \$1000s)

Category/Project Description	Revenue Source	Cost 2024-2029	Cost 2030-2044	Total Cost
<b>Category I: Capacity Increasing Projects</b>				
Sation 76	Levy/ Bond/ Impact Fee	7,875		7,875
Fleet/Support Building	Bond/ Impact Fee	2,625		2,625
Station 77 Apparatus Bay	Bond/ Impact Fee	630		630

Category/Project Description	Revenue Source	Cost 2024-2029	Cost 2030-2044	Total Cost
New Station Eastern UGA	Bond/ Impact Fee		7,875	7,875
Engine Aerial (75')	Levy/ Impact Fee	1,680		1,680
WUI Engine	Bond/ Impact Fee		297	297
Engine Aerial (100')	Bond/ Impact Fee		2,100	2,100
<b>Category II: Capital Replacement, Maintenance and Operations</b>				
Station 77 Roof/ Drill Tower	Bond	420		420
Station 71 50 Year Re-Model	Bond		8,400	8,400
Station 72 Re-construction	Bond		7,875	7,875
Engine Basic Replacement	Levy/ Bond	958		958
Tender Replacement	Levy/ Bond	945		945
Medic Unit Replacement	Levy/ Bond	288		288
Engine Rescue Replacement	Levy/ Bond		1,155	1,155
Medic Unit Replacement	Levy/ Bond	288		288
Medic Unit Replacement	Levy/ Bond	288		288
Engine Basic Replacement	Levy/ Bond		958	958
Medic Unit Replacement	Levy/ Bond		288	288
Medic Unit Replacement	Levy/ Bond		288	288
Engine Rescue Replacement	Levy/ Bond		1,155	1,155
Medic Unit Replacement	Levy/ Bond		288	288
Medic Unit Replacement	Levy/ Bond		288	288

Source: Poulsbo Fire Department, Capital Facilities and Capital Revenue plan, 2023

**Exhibit 4-43. Poulsbo Fire Department Capital Projects Cost (All numbers in 2024 \$1000s)**

Category Summary	Cost Years 2024-2029	Cost Years 2030-2044	Total Cost
<b>Category I (Capacity Projects Required to Meet LOS)</b>	12,810	10,272	23,082
<b>Category II (Other Projects Needed for Maintenance and Operations)</b>	3,187	20,695	23,882
<b>Total</b>	15,997	30,967	46,964

Source: Poulsbo Fire Department, Capital Facilities and Capital Revenue plan, 2023

**Exhibit 4-44. Poulsbo Fire Department Capital Projects Revenues (All numbers in 2024 \$1000s)**

Revenue Source	Revenue Years 2024-2029	Revenue Years 2030-2044	Total Revenue
Transfer from Operations & Reserves	2,400	2,100	4,500
Capital Facilities Bond*	9,000	18,000	27,000
<b>Total</b>	<b>11,400</b>	<b>20,100</b>	<b>31,500</b>

Note: \*Assumes approval of \$9,000 Capital Bond on a six-year cycle

Source: Poulsbo Fire Department, Capital Facilities and Capital Revenue plan, 2023

## Bainbridge Island Fire Department

### Overview

Bainbridge Island Fire Department is located on Bainbridge Island. It is the second largest city in Kitsap County with a population of just over 24,000 people spread across 28 square miles. The Bainbridge Island Fire Department (BIFD) is a combination department that was originally founded in 1942. BIFD is staffed by 44 paid, uniformed staff; 15 volunteers; and 8 administrative personnel. BIFD operates out of three fire stations. The headquarters fire station, Station 21, was expanded and completely rebuilt in 2018. The south station, Station 22, was completely rebuilt in 2019. The Department responds to over 3,000 calls for service each year. Approximately 70 percent of those calls are for emergency medical responses.

### Inventory of Current Facilities

**Exhibit 4-45 Inventory of Current Facilities – Bainbridge Island Fire Department**

Inventory	Existing
<i>Fire Units</i>	
Engines (including Type 3)	5
Brush engine	1
Ladder truck	1
Tenders	3
Medical units	5
Utility	1
Rescue unit	1
Rescue boat	1
Miscellaneous staff vehicles	10
<i>Staff</i>	
Fire Chief	1
Deputy Chief	1
Battalion Chiefs	4

Inventory	Existing
Lieutenants	10
Paramedics	9
FF/EMTs	16
Fire Marshal's Office	2
Administration (Finance, IT)	4
Community Risk Reduction	1
Fleet Manager	1
Volunteer FF/EMTs	15
<b>Number of Stations</b>	<b>3</b>

Source: Bainbridge Island Fire Department, 2023

## Level of Service Analysis

### Exhibit 4-46 Level of Service Analysis – Bainbridge Island Fire Department

Response Time Objectives	Time
Turnout time for fire	90 sec
Turnout time for EMS	60 sec
Response time for fire	5:30 mins
Response time for EMS	5 mins
<i>Other</i>	
WSRB Fire Rating	4

Source: Bainbridge Island Fire Department, 2023

## Capital Projects and Funding

An updated Bainbridge Island Fire Department Capital Plan is in progress. Below are the 2023 capital costs and funding for the department. The 2024-2029 BIFD CIP is pending.

### Exhibit 4-47 Bainbridge Island Fire Department Capital Projects (All numbers in 2024 \$1000s)

Category/Project Description	Revenue Source	Cost 2024-2029	Cost 2030-2044	2023 Cost
<b>Category I: Capacity Increasing Projects</b>				
New Equipment	Capital Facilities Bond Levy			202
<b>Category II: Capital Replacement, Maintenance and Operations</b>				
Station 21 Improvements	Capital Facilities Bond Levy			80
Station 22 Improvements	Capital Facilities Bond Levy			7
Station 23 Improvements	Capital Facilities Bond Levy			40

Vehicle Replacements	Capital Facilities Bond Levy			290
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Source: Bainbridge Island Fire Department, 2023 Budget

**Exhibit 4-48 Bainbridge Island Fire Department Capital Projects Cost (All numbers in 2024 \$1000s)**

Category Summary	Cost Years 2024-2029	Cost Years 2030-2044	2023 Total Cost
<b>Category I (Capacity Projects Required to Meet LOS)</b>			202
<b>Category II (Other Projects Needed for Maintenance and Operations)</b>			417
<b>Total</b>			619

Source: Bainbridge Island Fire Department, 2023 Budget

**Exhibit 4-49 Bainbridge Island Fire Department Capital Projects Revenues (All numbers in 2024 \$1000s)**

Revenue Source	Revenue Years 2024-2029	Revenue Years 2030-2044	2023 Total Revenue
Capital Facilities Bond Levy			619
<b>Total</b>			619

Source: Bainbridge Island Fire Department, 2023 Budget

## 4.4 PARKS AND RECREATION

### Overview

A variety of public agencies and private organizations provide parks and recreation facilities within Kitsap County, including Washington State Parks, Washington Department of Natural Resources (DNR), National Park Service-designated Kitsap Peninsula Water Trail, schools, and cities.

### Inventory of Current Facilities

Kitsap County owns approximately 10,138 acres of park land, and other agencies own approximately 19,829 acres of park land in the county. Kitsap County owns 8.5 miles of shoreline access and approximately 100 miles of trails in the county, while other agencies own 18 miles of shoreline access and 57 miles of trails in the county. Park space is generally used by all county residents. Out-of-county and out-of-state visitors and tourists also use a significant portion of these regional sites and facilities.

### Exhibit 4-50 County-Owned Parks, Shoreline Access, and Trails

Type of Park	Kitsap County Capacity (Acres)	Other Agencies Capacity (Acres)	Total Capacity (Acres)
Natural Resource Areas	255	16,699	16,954
Heritage Parks	7,833	0	7,833
Regional Parks	1,326	2,324	3,650
Community Parks	343	806	1,149
Partnership Properties	381	-	381
<b>Total Acres</b>	<b>10,138</b>	<b>19,829</b>	<b>29,985</b>
Shoreline Access (Miles)	8.5	18	26.5
Trail Miles (Paved and Unpaved)	74	57	131

Source: Kitsap County Parks, Recreation & Open Space Plan, 2012; Kitsap County Parks Department, 2023.

### Active and Passive Recreation Facilities

The County owns and manages a wide variety of active and passive recreation facilities, including baseball and softball fields, soccer fields, tennis courts, and other venues, as shown in Exhibit 4-51 and Exhibit 4-52.

### Exhibit 4-51 County-Owned Active Recreation Facilities (Units)

Type of Active Recreation Facility	Facility Count
Baseball Fields (250'+)	8
Baseball Fields (200'+)	19
Indoor Gymnasium	1
Basketball	7
Volleyball	6
Soccer	18
Tennis Courts	9
Horseshoe Pits	32
BMX Track	1
Gold Course Holes	36
Skate Park	3

Source: Kitsap County Parks, Recreation & Open Space Plan, 2012; Kitsap County Parks Department, 2023.

### Exhibit 4-52 County-Owned Passive Recreation Facilities (Units)

Type of Active Recreation Facility	Facility Count
Playgrounds	12

Garden features	1
Off-leash areas	3
<b>Trails</b>	
Trails (Paved)	1
Trails (Unpaved)	73
Total Trails (Miles)	74

Source: Kitsap County Parks, Recreation & Open Space Plan, 2012; Kitsap County Parks Department, 2023.

### Level of Service Analysis

The LOS analysis for parks is based on the 2012 Kitsap County Parks, Recreation & Open Space (PROS) Plan that was adopted in March of 2012. For most of the parks and recreation facilities include, there are two forms of LOS: The “target” LOS is from PROS, and “base” LOS was the standard adopted in the 2012 based on the fundable plan.

### Natural Resource Areas

The adopted LOS for natural resource areas is 71.1 acres per 1,000 population, including both County and non-County facilities. Currently, the County is not meeting this standard as shown in Exhibit 4-53.

#### Exhibit 4-53 Target LOS Requirement Analysis – Natural Resource Areas

Time Period	Kitsap Countywide Population	Acres Needed to Meet LOS Standard	Acres Available	Net Reserve or (Deficit)
Natural Resources Area LOS Standard = 71.1 Acres per 1,000 population				
2022	280,900	19,972	16,954	(3,018)

Source: Kitsap County Parks, Recreation & Open Space Plan, 2012; Kitsap County Parks Department, 2023.

### Capital Projects and Funding

#### Exhibit 4-54 Parks Capital Projects (All numbers in 2024 \$1000s)

Category/Project Description	Revenue Source	Cost 2024-2029	Cost 2030-2044	Total Cost
<b>Category I: Capacity Increasing Projects</b>				



Category/Project Description	Revenue Source	Cost 2024-2029	Cost 2030-2044	Total Cost
Schold Farm/Clear Creek Master Plan	REET II, General Fund	200		200
Illahee Forest Preserve Heritage Park Restroom Installation	REET II, General Fund	47.6		47.6
North Kitsap Heritage Park Restroom Installation and Parking Lot Improvements	REET II, General Fund	257.6		257.6
Newberry Hill Heritage Park Restroom Installation and Parking Lot Improvements	REET II, General Fund	275		275
Long Lake Park Playground Installation	REET II, General Fund	200		200
Banner Forest Heritage Park Restroom Installation and Parking Lot Improvements	REET II, General Fund	247.7		247.7
South Kitsap Regional Park Parking Lot Improvements, Shelter/Main Parking, and Artificial Turf	REET II, General Fund	1,370		1,370
Norwegian Point Park	REET II, General Fund	900		900
Coulter Creek Heritage Park Restroom Installation and Parking Lot Improvements	REET II, General Fund	240		240
<b>Category II: Capital Replacement, Maintenance and Operations</b>				
Fairgrounds & Events Center Pavilion Fire Suppression and Renovation	REET II, General Fund	770		770
Guillemot Cove Nature Reserve Demolition of cabin and bulkhead	REET II, General Fund	50		50
Point No Point Park Beach Rehabilitation	REET II, General Fund	700		700
Silverdale Waterfront Park Bulkhead Repair	REET II, General Fund	2,500		2,500
Island Lake Park Playground Replacement	REET II, General Fund	175		175
Wildcat Lake Park Playground Replacement	REET II, General Fund	175		175
Salsbury Point Park Playground Replacement	REET II, General Fund	185		185

Category/Project Description	Revenue Source	Cost 2024-2029	Cost 2030-2044	Total Cost
Horseshoe Point Park Playground Replacement	REET II, General Fund	215		215
Silverdale Waterfront Park Playground Replacement	REET II, General Fund	200		200
Howe Farm Barn Renovations	REET II, General Fund	200		200

Source: Kitsap County Parks Dept. Capital Improvement Plan 2023-2028

**Exhibit 4-55 Parks Capital Projects Cost (All numbers in 2024 \$1000s)**

Category Summary	Cost Years 2024-2029	Cost Years 2030-2044	Total Cost
<b>Category I (Capacity Projects Required to Meet LOS)</b>	3,737.9	0	3,737.9
<b>Category II (Other Projects Needed for Maintenance and Operations)</b>	5,170	0	5,170
<b>Total</b>	8,907.9	0	8,907.9

Source: Kitsap County Parks Dept. Capital Improvement Plan 2023-2028

**Exhibit 4-56 Parks Capital Projects Revenues (All numbers in 2024 \$1000s)**

Revenue Source	Revenue Years 2024-2029	Revenue Years 2030-2044	Total Revenue
General Fund	687.25		687.25
REET II	8,220.65		8,220.65
<b>Total</b>	8,907.9		8,907.9

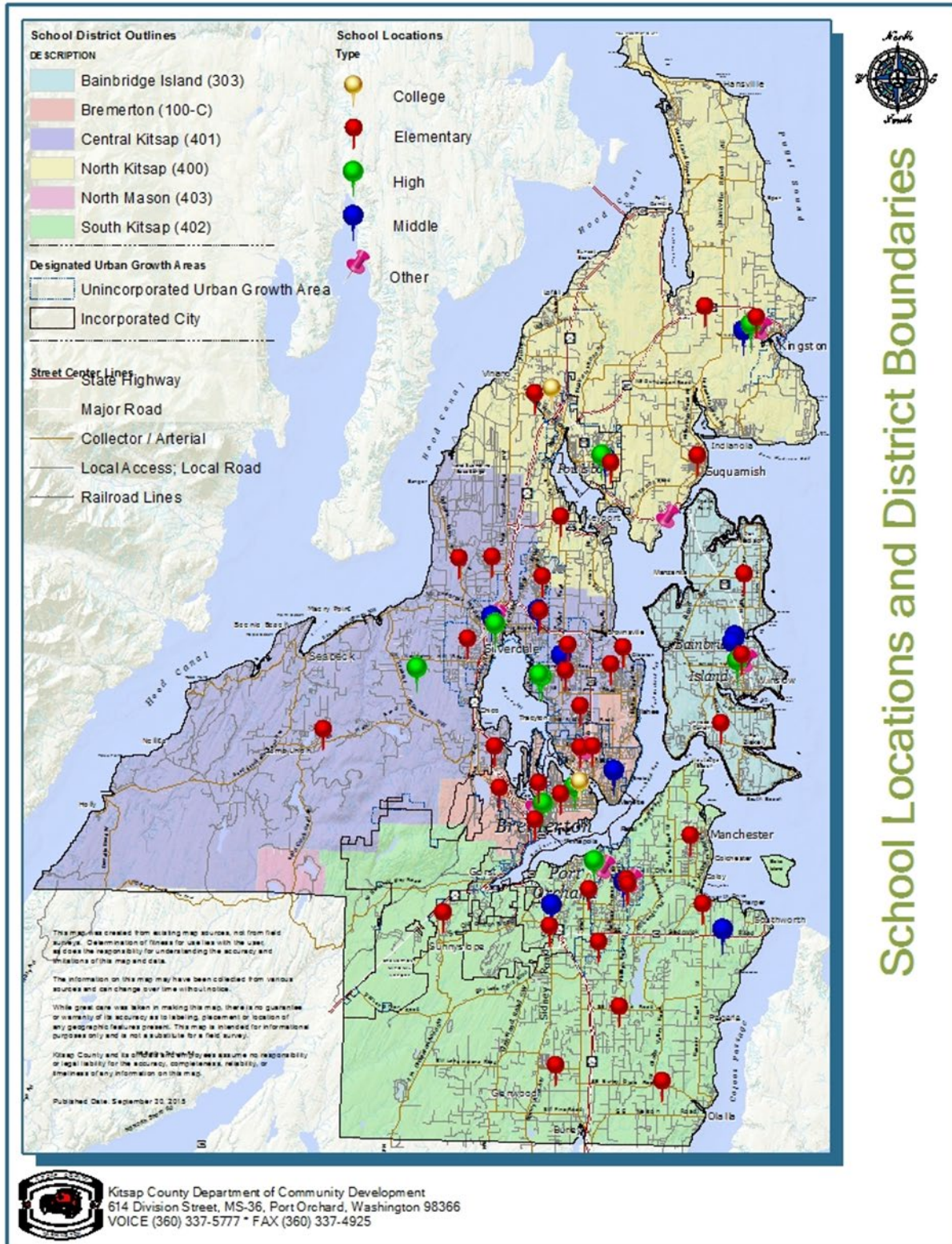
Source: Kitsap County Parks Dept. Capital Improvement Plan 2023-2028

## 4.5 SCHOOLS

### Purpose

The purpose of this section is to ensure that adequate educational facilities will be available to serve the increasing population of Kitsap County. This section evaluates the four school districts that serve unincorporated Kitsap County: North Kitsap, Central Kitsap, South Kitsap, and Bremerton. Two districts were excluded: Bainbridge Island Schools, because the entire district is located in the City of Bainbridge Island, and the North Mason School District, because it does not have schools or facilities in Kitsap County and serves only a very small area in the southwestern corner of the County. Exhibit 4-57 shows the school district boundaries.

# Exhibit 4-57 School District Boundaries.



The inventories and analyses of capacity requirements are presented in two ways: with interim (i.e., portable) facilities and without interim facilities. The districts' capital improvement projects are based on the capacity without portables because portables have significant limitations, including heating, ventilation, noise, security, restrooms, storage cupboards, and intercom communications. For these reasons, portables are not considered permanent capacity by the state or by the districts. The capacity of portable rooms is presented to show the interim facilities the districts use (1) to meet short-term enrollment fluctuations, or (2) to serve as temporary facilities until permanent facilities are built. Capacity figures are generally based on teacher-to-student ratios (expressed as students per classroom) that the school district determines to be most appropriate to accomplish its educational program. These ratios are often contained in employment agreements between districts and their teachers. Inventories of the school districts' existing facilities in Kitsap County are presented in this section.

## North Kitsap School District

### Overview

North Kitsap School District (NKSD) is located at the north end of the Kitsap Peninsula and is almost completely surrounded by water. To the west, the district is bordered by Hood Canal and includes the Port Gamble Inlet. To the north and east, Puget Sound borders the district. Port Madison and Liberty Bay surround the district on its southernmost borders. NKSD schools are generally clustered around the City of Poulsbo and the unincorporated community of Kingston. The district currently uses the following grade level configurations: K-5 housed in elementary schools, 6-8 housed in middle schools, and 9-12 housed in senior high schools. Exhibit 4-58 lists North Kitsap Schools and their enrollment capacity.

### Inventory of Current Facilities

#### Exhibit 4-58 Enrollment Capacity - North Kitsap Schools

Schools	Current Enrollment	Current Capacity
<i>Elementary Schools (K-5)</i>		
Gordon	402	340
Pearson	285	300
Poulsbo	421	360
Suquamish	323	350
Vinland	518	460
Wofle	372	415
Other:	27	
<b>Total Elementary Permanent Facilities</b>		2225
<b>Total Elementary Interim (Portable) Facilities</b>		870
<b>Total Elementary Permanent and Interim Facilities</b>	2348	3095

Schools	Current Enrollment	Current Capacity
<i>Middle School</i>		
Kingston	496	825
Poulsbo	693	625
Other:	13	
<b>Total Middle School Permanent Facilities</b>		1450
<b>Total Middle School Interim (Portable Facilities)</b>		200
<b>Middle School Permanent and Portable</b>	1202	1650
<i>High School</i>		
Kingston	574	775
North Kitsap	992	1225
Spectrum School 7	70	
Other:	63	
<b>Total High School Permanent Facilities</b>		2000
<b>Total High School Interim (Portable Facilities)</b>		150
<b>High School Permanent and Portable Classrooms</b>	1699	2150
<b>Overall Total Permanent Facilities Capacity</b>		5675
<b>Overall Total Interim (Portable) Facilities</b>		1220
<b>Overall Total Permanent and Interim Facilities</b>		6895

Source: North Kitsap School District, Doug Newell

### Level of Service Analysis

NKSD is currently meeting its LOS standard through the use of permanent facilities. However, with an increase in households expected over the planning period, the District is not expected to meet its LOS in 2024 or 2044.

In its CFP, NKSD has its own student generation rates based on the demographics in the district. The District uses the student generation rates to project future enrollment based on anticipated housing unit growth. Generation rates for NKSD are 0.330 students per single-family dwelling unit and 0.92 students per multi-family dwelling unit.

## Capital Projects and Funding

Exhibit 4-59 North Kitsap School District Capital Projects and Revenues, (All numbers are in 2024 \$1000s)

Category/Project Description	Revenue Source	Cost 2024-2029	Cost 2030-2044	Total Cost
<b>Category I: Capacity Increasing Projects</b>	Bond	150	240	390
	SCAP	7	17	24
	Impact Fees			
<b>Category II: Capital Replacement, Maintenance and Operations</b>	Bond		40	48.5

Source: North Kitsap School District, 2023

## Central Kitsap School District

### Overview

Central Kitsap School District (CKSD) is located on the Kitsap Peninsula, surrounding Dyes Inlet and extending west to the Hood Canal. Currently, there are twelve elementary schools, three middle schools, one 7-12 secondary school, and two senior high schools in the district. The District also serves an alternative school program for K-12 grades at Barker Creek Community School.

### Inventory of Current Facilities

Exhibit 4-60 Enrollment Capacity – Central Kitsap School District

Schools	Current Enrollment	Current Capacity
<i>Elementary Schools (K-5)</i>		
Brownsville	420	378
Clear Creek	424	403
Cottonwood	385	398
Cougar Valley	395	404
Emerald Heights	468	489
Esquire Hills	271	363
Green Mountain	360	374
Jackson Park	445	538
Pinecrest	390	405

Schools	Current Enrollment	Current Capacity
Silverdale	418	501
Silver Ridge	419	471
Woodlands	385	398
<b>Total Elementary Permanent Facilities</b>	4,644	5,122
<b>Total Elementary Interim (Portable) Facilities</b>	136	136
<b>Total Elementary Permanent and Interim Facilities</b>	4,780	5,258
<i>Middle School (6-8)</i>		
Central Kitsap	628	745
Fairview	595	736
Ridgetop	752	1007
<b>Total Middle School Permanent Facilities</b>	1,975	2,488
<b>Total Middle School Interim (Portable Facilities)</b>	0	0
<b>Middle School Permanent and Portable Classrooms</b>	1,975	2,488
<i>High School (9-12)</i>		
Central Kitsap	1541	1,451
Olympic	1069	1,336
Klahowya (7-12)	571	1,276
<b>Total High School Permanent Facilities</b>	3,181	4,063
<b>Total High School Interim (Portable Facilities)</b>	0	120
<b>High School Permanent and Portable Classrooms</b>	3,181	4,183
<i>Alternative School (K-12)</i>		
Barker Creek Community School	297	300
<b>Total Alternative Facilities</b>	297	300
<b>Overall Total Permanent Facilities Capacity</b>	9,800	11,673
<b>Overall Total Interim (Portable) Facilities</b>	136	256
<b>Overall Total Permanent and Interim Facilities</b>	10,233	12,229

Source: Central Kitsap School District, 2023

Capacity data used July 15, 2021 CKSD Study and Survey adjusted for K-3 classrooms at 17 students/classroom; K-3 classroom capacity assumes 17 students/per classroom per SOW goal; Current K-3 classroom enrollment is based upon 19 students/per classroom due to staffing challenges; Enrollment reflects total student population by site (permanent and portable students not separated); Only counted general elementary classrooms with current occupancy, in capacity (daycare and preschool uses not included); Only counted MS and HS portables manufactured after 2000 in capacity.

### Level of Service Analysis

CKSD is currently meeting the LOS standard through the use of portables, which gives it a total available capacity that is greater than current enrollment. It is not meeting its standard through permanent facilities alone. All MS and HS students are currently housed in permanent space. With the exception of two (2) elementary schools, all elementary

students are currently housed in permanent space. Elementary portables have largely remained in place since 2016 CFP to serve in the capacity of pre-school and daycare needs or waiting to be surplus due to age. Current SOW initiatives suggest that pre-school may become state funded and more portables will be needed to accommodate.

If student enrollment returns to pre Covid-19 numbers, CKSD would barely meet its LOS standard through permanent facilities alone (current capacity at 11,673). There would be no room for additional increased student enrollment beyond pre-Covid capacity.

**Exhibit 4-61 Level of Service Analysis – Central Kitsap School District**

Time Period	Student per SF Household Ratio	Student per MF Household Ratio	SF Households	MF Households	Total Enrollment	Permanent Capacity	Net Reserve or Deficit	Total Capacity	Net Reserve or Deficit
2023	0.513	0.208	0	7,761	3,962	11,579	1,431	11,968	2,782
2044	0.513	0.208	25,878	11,154	15,595	11,921	(3,674)	12,034	(3,561)

**Capital Projects and Funding**

Exhibit 4-62 shows Central Kitsap School District capital projects planned for 2024 through 2044.

**Exhibit 4-62 Central Kitsap School District Capital Projects Costs (All numbers are in 2023 \$1000s)**

Category/Project Description	Revenue Source	Cost 2024-2029	Cost 2030-2044	Total Cost
<b>Category I: Capacity Increasing Projects</b>				
<b>Brownsville Elementary Replacement</b>	Bonds, OSPI Matching, Impact Fees	45,000		45,000
<b>Early Childhood Learning Centers</b>	Federal Heavy Impact Funds, OSPI Matching, Impact Fees	15,000		15,000
<b>Category II: Capital Replacement, Maintenance and Operations</b>				
Fairview Middle school Replacement	Federal Heavy Impact Funds, OSPI Matching	73,800		73,800
Elementary School Modernization (Clear Creek, Esquire Hills, and Woodlands)	Bonds, OSPI Matching	60,000		60,000
Critical and Required Repairs	Bonds	7,000	18,000	25,000



Category/Project Description	Revenue Source	Cost 2024-2029	Cost 2030-2044	Total Cost
Athletic Field and Court Upgrades	Bonds	60,000	20,000	80,000
Silverdale Center Tenant Improvement	Sale of Property	3,300		3,300
Playground Upgrades	Bonds		7,000	7,000
Ridgetop Middle School Modernization	Bonds, OSPI Matching		55,000	55,000
Elementary School Modernization (Cougar Valley, Green Mountain, Silver Ridge)	Bonds, OSPI Matching		65,000	65,000

Source: Central Kitsap School District Admin, 2023.

Exhibit 4-63 shows Central Kitsap School District planned capital project costs and revenues for 2024 through 2044, respectively.

#### Exhibit 4-63 Central Kitsap School District Capital Project Costs (All numbers are in 2023 \$1000s)

Category/Project Description	Cost 2024-2029	Cost 2030-2044	Total Cost
<b>Category I (Capacity Projects Required to Meet LOS)</b>	60,000	0	60,000
<b>Category II (Other Projects Needed for Maintenance and Operations)</b>	149,000	165,000	314,000
<b>Total</b>	209,100	165,000	374,100

Source: Central Kitsap School District Admin, 2023.

#### Exhibit 4-64 Central Kitsap School District Capital Project Revenues (All numbers are in 2023 \$1000s)

Revenue Source	Cost 2024-2029	Cost 2030-2044	Total Cost
<b>Bonds</b>	92,000	140,000	232,000
<b>Federal Heavy Impacts Funds</b>	66,400	0	66,400
<b>OSPI Matching</b>	42,900	25,000	67,900
<b>Impact Fees</b>	4,500	0	4,500
<b>Sale of Property</b>	3,300	0	3,300
<b>Total</b>	209,100	165,000	374,100

Source: Central Kitsap School District Admin, 2023.

## Bremerton School District

### Overview

The Bremerton School District (BSD) is located on the Kitsap Peninsula between Port Orchard Bay, Dyes Inlet, and Sinclair Inlet. The district is adjacent to the Puget Sound Naval Shipyard, and its enrollment is directly related to the military base. The school district serves the City of Bremerton and unincorporated areas adjacent to the city.

BSD comprises six elementary schools, one middle school, one traditional high school, and one alternative high school. The district also administers a vocational skills center that serves other school districts. The current grade configuration in the district is based on grades K-5, elementary; grades 6-8, middle school; and grades 9-12, high school. Exhibit 4-65 lists the schools of Bremerton School District and their enrollment capacity.

### Inventory of Current Facilities

#### Exhibit 4-65 Enrollment Capacity – Bremerton School District

Schools	Current Capacity
<i>Elementary Schools</i>	
Armin Jahr	481
Crownhill	528
Kitsap Lake	528
Naval Avenue Early Learning Center	484
View Ridge	578
West Hills S.T.E.M. Academy	528
<b>Total Elementary Permanent Facilities</b>	3,127
<b>Total Elementary Interim (Portable) Facilities</b>	890
<b>Total Elementary Permanent and Interim Facilities</b>	4,017
<i>Middle School</i>	
Mountain View Middle School (6-8)	1,274
<b>Total Middle School Permanent Facilities</b>	1,274
<b>Total Middle School Interim (Portable Facilities)</b>	120
<b>Middle School Permanent and Portable Classrooms</b>	1,394
<i>High School</i>	
Bremerton High School	1,671
Renaissance High School	136
West Sound Technical Skills Center	515
<b>Total High School Permanent Facilities</b>	2,322
<b>Total High School Interim (Portable Facilities)</b>	120
<b>High School Permanent and Portable Classrooms</b>	2,442
<b>Overall Total Permanent Facilities Capacity</b>	6,673
<b>Overall Total Interim (Portable) Facilities</b>	1,130
<b>Overall Total Permanent and Interim Facilities</b>	7,803

Source: Bremerton School District, Garth Steedman

Note: The Bremerton School District has stated that their classrooms tend to be overcrowded at the listed capacity; therefore, they are often not used at capacity numbers. The West Sound Technical Skill Center may include students that are enrolled at Bremerton High School and Renaissance High School.

**Level of Service Analysis**

BSD is currently meeting its LOS standard through the use of permanent facilities. However, with an increase in households expected over the planning period, the District is not expected to meet its LOS, as shown in Exhibit 4 41. In 2021, BSD will see a surplus if temporary capacity is considered and a deficit with permanent capacity. With permanent or temporary capacity there would be a deficit by 2036, and the District does not have adequate portable facilities to serve total enrollment under the Preferred Alternative.

**Exhibit 4-66 Level of Service Analysis – Bremerton School District**

Time Period	Student per SF Household Ratio	Student per MF Household Ratio	SF Households	MF Households	Projected Enrollment	Permanent Capacity	Permanent Capacity Net Reserve or Deficit	Total w/ Port Capacity	Total Capacity Net Reserve or Deficit
2020 Base	0.21	0.14	13,694	7,761	3,962	5,393	1,431	6,744	2,782
2044 Alt. #1	0.21	0.14	19,959	18,918	6,840	5,393	(1,447)	6,744	(96)
2044 Alt. #2	0.21	0.14	20,151	19,170	6,914	5,393	(1,523)	6,744	(172)
2044 Alt. #3	0.21	0.14	20,022	18,966	6,860	5,393	(1,467)	6,744	(116)

**Capital Projects and Funding**

Exhibit 4-67 shows Bremerton School District capital projects planned for 2024 through 2044. The project list includes both Phase I items, and Phase II items. Within Phase I, projects at Armin Jahr, View Ridge, Kitsap Lake, West Hills, and Naval Avenue Elementaries will add student capacity and will require state funding assistance and passage of bond(s) to complete. It is too early to determine if the Phase II projects will be done in a manner to add student capacity. The Bremerton School District’s future plans include approximate cost but do not specify the years for planned projects other than a range of 10-15 years from the date of the 2024 study. This CFP contemplates the completion of Phase I projects by these projects will be completed by 2030, with the second phase occurring early in the 2030s.

**Exhibit 4-67 Bremerton School District Capital Projects (All numbers are in 2024 \$1000s)**

Category / Project Description	Revenue Sources	Total Cost
<b>Category I (Capacity Projects Required to Meet LOS)</b>		
Phase I Projects:		
Armin Jahr Elementary Replacement	Bond, State Assistance	45,000
View Ridge Elementary Replacement	Bond, State Assistance	45,000
Consolidated Facilities Replacement	Bond	34,000
Kitsap Lake Elementary Gym Addition	Bond	5,000
West Hill STEM Gym Addition	Bond	5,000
Naval Avenue Gym Addition & Site Improvements	Bond	10,000
HVAC Improvements & Cooling	Bond	10,000
Renaissance High School Replacement	Bond	14,000
Phase II Projects:		
Bremerton High School Upgrades	Bond, State Assistance	75,000
Mountain View Middle School Upgrades	Bond, State Assistance	24,000
Kitsap Lake Elementary School Upgrades	Bond, State Assistance	9,000
Crownhill Elementary School Upgrades	Bond, State Assistance	10,000
West Hills STEM Upgrades	Bond, State Assistance	16,000

Source: Bremerton School District Long-Range Facilities Plan, 2023.

Exhibit 4-68 and Exhibit 4-69 show the Bremerton School District capital project costs and revenues, respectively.

**Exhibit 4-68 Bremerton School District Capital Project Cost (All numbers are in 2024 \$1000s)**

Category Summary	2024-2029	Total
<b>Category I (Capacity Projects Required to Meet LOS)</b>	110,000	110,000
<b>Total</b>	110,000	110,000

Source: Bremerton School District Long-Range Facilities Plan, 2023.

**Exhibit 4-69 Bremerton School District Capital Project Revenues (All numbers are in 2024 \$1000s)**

Revenue Source	Revenue Years	
	2024-2029	Total Revenue
<b>State Assistance</b>	18,000	18,000
<b>Bond(s)</b>	150,000	150,000
<b>Total</b>	168,000	168,000

*Source: Bremerton School District Long-Range Facilities Plan, 2023.*

## South Kitsap School District

### Overview

South Kitsap School District (SKSD) is located in the southern portion of Kitsap County. Pierce County and Mason County border the District to the south and west. To the north and east, the District is bordered by the Sinclair Inlet, Rich Passage, Colvos Passage, and Puget Sound. The district includes 10 elementary schools, three junior high schools, and one alternative and one comprehensive high school. The majority of the schools are located throughout the southern portion of unincorporated Kitsap County, while South Kitsap High School, Cedar Heights Middle School, and Sidney Glen Elementary School are located within the Port Orchard city limits. The grade configuration is based on grades K-5, elementary; grades 6-8, middle school; and grades 9-12, senior high school. Exhibit 4-70 lists the schools of the South Kitsap School District and their enrollment capacity.

### Inventory of Current Facilities

#### Exhibit 4-70 Enrollment Capacity – South Kitsap School District

Schools	Current Enrollment
<i>Elementary Schools</i>	
Burley-Glenwood	528
East Port Orchard	467
Hidden Creek	526
Manchester	441
Mullenix Ridge	480
Olalla	408
Orchard Heights	729
Sidney Glen	467
South Colby	216
Sunnyslope	417
<b>Total Elementary Permanent Facilities</b>	4,679
<b>Total Elementary Interim (Portable) Facilities</b>	391
<b>Total Elementary Permanent and Interim Facilities</b>	4,233
<i>Middle Schools</i>	

Schools	Current Enrollment
Cedar Heights	605
John Sedgwick	702
Marcus Whitman	796
<b>Total Middle School Permanent Facilities</b>	2,240
<b>Total Middle School Interim (Portable Facilities)</b>	450
<b>Middle School Permanent and Portable Classrooms</b>	2016
<i>High School</i>	
South Kitsap	1,972
Discovery Alternative High School	174
Explorer	214
<b>Total High School Permanent Facilities</b>	2010
<b>Total High School Interim (Portable Facilities)</b>	540
<b>High School Permanent and Portable Classrooms</b>	2550
<b>Overall Total Permanent Facilities Capacity</b>	7418
<b>Overall Total Interim (Portable) Facilities</b>	1381
<b>Overall Total Permanent and Interim Facilities</b>	8799

Source: South Kitsap School District 2023

Note: Enrollment Capacity based on current enrollment. The Total capacity of a building is a little more intense figuring contract language around class size and special education programs.

### Level of Service Analysis

SKSD is currently meeting the LOS standard through the use of portables to house approximately 75 classrooms, which gives it a total available capacity greater than current enrollment. The 75 portable classrooms in use throughout the District have the capacity to house over 1500 students. It is not meeting its standard through permanent facilities alone.

In its CFP, SKSD has its own student generation rates based on the demographics within the district. The district uses the student generation rates to project future enrollment based on anticipated housing unit growth. Generation rates for SKSD are 0.52 students per single-family dwelling unit and 0.32 students per multifamily dwelling unit (South Kitsap School District CFP, 2014-19).

Exhibit 4-65 shows the estimated level of service under the Preferred Alternative. If growth in households occurs as predicted with the land capacity analysis, SKSD would need to increase capacity to meet its LOS standard.

**Exhibit 4-71 Level of Service Analysis – South Kitsap School District**

Time Period	Student per SF Household Ratio	Student per MF Household Ratio	SF Households	MF Households	Total Enrollment	Permanent Capacity	Net Reserve or Deficit	Total Capacity	Total Capacity Net Reserve or Deficit
2023	0.52	0.36	19,515	6,816	8,761	9,065	304	10696	1,935
2044 Alt. #1	0.52	0.36	29,716	7,075	17,999	9,065	(8,934)	10,696	(7,303)
2044 Alt. #2	0.52	0.36	29,568	7,477	18,067	9,065	(9,002)	10,696	(7,371)
2044 Alt. #3	0.52	0.36	29,589	7,008	17,909	9,065	(8,844)	10,696	(7,213)

Source: South Kitsap School District, 2023

**Capital Projects and Funding (All numbers are in 2024 \$1000s)**

Category/Project Description	Revenue Source	Cost 2024-2029	Total Cost
<b>Category I: Capacity Increasing Projects</b>			
<b>Category II: Capital Replacement, Maintenance and Operations</b>			
Cedar Heights Middle School Replacement	Bond, State Assistance	96.3	96.3
South Colby Elementary School Replacement	Bonds, State Construction Assistance	55.1	55.1
Olalla Elementary School Replacement	Bonds, State Construction Assistance	55.1	55.1
Explorer Academy Replacement	Bond, State Construction Assistance	14.9	14.9
Discovery High School Replacement	Bond, State Construction Assistance	14.9	14.9
South Kitsap High School Renovation	Bond, SCAP Assistance	46.8	46.8

Source: South Kitsap School District, 2023

**Exhibit 4-72 SKSD Capital Project Cost (All numbers are in 2024 \$1000s)**

Category Summary	2024-2029	Total
<b>Category II: Capital Replacement, Maintenance and Operations</b>	283.1	283.1
<b>Total</b>	283.1	283.1

Source: South Kitsap School District, 2023

**Exhibit 4-73 SKSD Capital Project Revenues (All numbers are in 2024 \$1000s)**

Revenue Source	Revenue Years 2024-2029	Total Revenue
<b>State Assistance*</b>		
<b>Bond(s)*</b>		
<b>SCAP Assistance*</b>		
<b>Total</b>		283.1

Note: \*Exact amount of revenue from each source was not specified/TBD

Source: South Kitsap School District, 2023

## 4.6 SOLID WASTE

### Overview

Washington State law (RCW 70A.205 [formerly RCW 70.95]) requires counties to plan an integrated solid waste management system that emphasizes waste reduction and recycling. Chapter 70A.300 RCW (formerly Chapter 70.105 RCW) requires local governments to develop plans for managing moderate risk waste, which includes hazardous wastes produced by households, businesses, and other entities in small quantities. Kitsap County Public Works/Solid Waste Division is the lead planning agency for solid waste management in Kitsap County.

In 2018, Kitsap County adopted the current Solid and Hazardous Waste Management Plan (Kitsap County 2018). This Plan and personal communication with Kitsap County Public Works/Solid Waste Division staff are the sources for this analysis.

The Plan specifies the management actions that will be taken over a six-year (detailed) and 20-year (general) time period. The plan is developed with participation from the cities, tribes, and the Navy, as well as a solid waste advisory committee. Through this planning process, counties are encouraged to allow private industry to provide services to the fullest extent possible (RCW 70A.205.010 [formerly 70.95.020]). The Kitsap County solid waste



system is a combination of private companies and public agencies. Components of an integrated solid waste management program are:

- System planning, administration, and enforcement
- Collection, transfer, and disposal of solid waste
- Collection and processing of recyclables
- Moderate risk waste transfer and collection programs

### Inventory of Current Facilities

Exhibit 4-74 shows the current inventory of solid waste facilities in Kitsap County, which are owned and operated by a variety of entities.

**Exhibit 4-74 Inventory of Current Facilities – Solid Waste**

Name	Owner	Operator	Location
<i>Solid Waste Disposal</i>			
Olympic View Transfer Station (OVTS)	Kitsap County Public Works (KCPW)	Waste Management of Washington, Inc. (WMW) Note: KCPW operates OVTS Scalehouse	City of Bremerton
Olalla Recycling and Garbage Facility (RAGF)	KCPW	KCPW	South Kitsap
Hansville RAGF	KCPW	KCPW	North Kitsap
Silverdale RAGF	KCPW	KCPW	Central Kitsap
Bainbridge Island Transfer Station	Bainbridge Disposal	Bainbridge Disposal	City of Bainbridge Island
<i>Moderate Risk Waste Disposal</i>			
Household Hazardous Waste Collection Facility	KCPW	KCPW	City of Bremerton
<i>Residential Recyclables Collection</i>			
OVTS Recycling Area	KCPW	KCPW	City of Bremerton
Olalla RAGF	KCPW	KCPW	South Kitsap
Hansville RAGF	KCPW	KCPW	North Kitsap

Name	Owner	Operator	Location
Silverdale RAGF	KCPW	KCPW	Central Kitsap
Bainbridge Island Transfer Station	Bainbridge Disposal	Bainbridge Disposal	City of Bainbridge Island

Source: Keli McKay-Means, Projects & Operations Manager, Kitsap County Public Works Solid Waste Division, 2023.

### Level of Service Capacity Analysis

With the closure of the Olympic View Sanitary Landfill, the County contracted with Waste Management of Washington, Inc. (WMW) to design, build, and operate the Olympic View Transfer Station (OVTS) in Bremerton. OVTS opened to the public in 2002 serving as the primary transfer station for managing all the County’s municipal solid waste for transport by rail to Waste Management’s Columbia Ridge Landfill near Arlington, Oregon. This design, build and operate contract spanned 20 years and expired in June 2022. A comprehensive procurement process was undertaken in 2020 and 2021 to ensure continued level of service for OVTS operations. As a result of this process, the County awarded a contract to WMW for operations of OVTS through May 2042. The County has a contract with Waste Management for implementing designated capital improvement projects at OVTS. This second contract is tied to the primary operations contract.

OVTS is designed for a maximum daily processing of 1,000 tons of waste, which exceeds the maximum projected volume of 800-900 tons per day in 2036. The landfill has capacity for 50 to 100 years and has additional acreage that could be permitted to increase its capacity further.

Planning at Kitsap County and Waste Management occurs on an ongoing basis based on future projected needs. The County has adequate time to plan for 2044 levels of waste generation, and projected levels could be accommodated at OVTS and the current landfill site. Prior to the expiration of the existing contract, the County will issue a Request for Proposals for qualified contractors to continue to maintain solid waste levels of service.

### Exhibit 4-75 Solid Waste Management Disposal and Recycling Rate

Time Period	Countywide Populations	SW Disposal Rate (lbs./ cap/ day)	SW Tons Disposed per Year	SW Recycling Rate (lbs./ cap/ day)	Recycled Tons per Year
2022	280,900	4.22	216,335	2.85	146,103

Source: Washington State Department of Ecology, 2018 Recycling and Disposal Numbers for Kitsap County, 2021. Nate Vikeras, Solid Waste Management, October 15, 2021. Personal communication with Keli McKay-Means, Projects and Operations Manager, Kitsap County Public Works Solid Waste Division, February 2023. Personal Communication with Jim Rogers, Kitsap County Department of Community Development, February 2023 (for year 2022 population data).

## Capital Projects and Funding

Exhibit 4-76 Kitsap County Solid Waste Capital Projects (All numbers are in 2024 \$1000s)

Category/Project Description	Revenue Source	Cost 2024-2029	Cost 2030-2044	Total Cost
<b>Category I: Capacity Increasing Projects</b>				
Olympic View Transfer Station - Second Pre-load Compactor	Tipping Fees, Bonds	2,775	2,200	4,975
Olympic View Transfer Station - Intermodal Facility and Rail Expansion	Tipping Fees	9,925		9,925
Olympic View Transfer Station - Stormwater Improvements	Tipping Fees	2,850		2,850
Olympic View Transfer Station - Backup Generator	Tipping Fees	375		375
Olympic View Transfer Station - Trackout Mitigation	Tipping Fees	1,100		1,100
Olympic View Transfer Station - General Capacity Upgrades	Tipping Fees	4,800		4,800
Silverdale Recycling and Garbage Facility - Improvements and Construction	Tipping Fees, Bonds	17,000	1,300	18,300
Household Hazardous Waste Collection Facility - Repairs and Improvements	Tipping Fees	350		350
North-end Household Hazardous Waste Collection Facility - Construction	Tipping Fees, Bonds, REET	10,100	1,400	11,500
Hansville Recycling and Garbage Facility - Improvements	Tipping Fees	220		220
Olalla Recycling and Garbage Facility - Improvements	Tipping Fees	275		275
<b>Category II: Capital Replacement, Maintenance and Operations</b>				
Hansville Landfill Closure - Ongoing Improvements	Landfill Post Closure Funds	1,050		1,050

Category/Project Description	Revenue Source	Cost 2024-2029	Cost 2030-2044	Total Cost
Olalla Landfill Closure - Ongoing Improvements	Landfill Post Closure Funds	750		750
<b>Total</b>		51,570	4,900	56,470

Source: Personal Communication with Keli McKay-Means, Projects and Operations Manager, Kitsap County Public Works Solid Waste Division, 2023

**Exhibit 4-77 Kitsap County Solid Waste Capital Project Costs (All numbers are in 2024 \$1000s)**

Category Summary	Cost Years 2024-2029	Cost Years 2030-2044	Total Cost
<b>Category I (Capacity Projects Required to Meet LOS)</b>	49,770	4,900	54,670
<b>Category II (Other Projects Needed for Maintenance and Operations)</b>	1,800	0	1,800
<b>Total</b>	51,570	4,900	56,470

Source: Personal Communication with Keli McKay-Means, Projects and Operations Manager, Kitsap County Public Works Solid Waste Division, 2023

**Exhibit 4-78 Kitsap County Solid Waste Capital Project Revenues (All numbers are in 2024 \$1000s)**

Revenue Source	Revenue Years 2024-2029	Revenue Years 2030-2044	Total Revenue
<b>Tipping Fees, REET, and Bonds</b>	49,770	4,900	54,670
<b>Landfill Post-Closure Funds</b>	1,800	0	1,800
<b>Total</b>	51,570	4,900	56,470

Source: Personal Communication with Keli McKay-Means, Projects and Operations Manager, Kitsap County Public Works Solid Waste Division, 2023

## 4.7 STORMWATER

### Overview

Kitsap County has three types of drainage facilities:

- Conveyance network
- Runoff quantity and flow-control facilities
- Stormwater quality treatment systems

The drainage infrastructure is guided by topography and flows, without consideration to property ownership, land use, or political boundaries. The conveyance network includes all natural (streams and swales) and constructed open channels (swales and ditches), as well as piped drainage systems (including catch basins and conveyance structures) and culverts. These systems may be located on private property or within the County right-of-way.

Quantity and flow-control facilities include infiltration facilities, retention and detention ponds, tanks, vaults, and bioretention systems. The purpose of these facilities is to reduce the rate of stormwater flow from a specific site or area to reduce the potential for localized flooding, minimize flow damage to natural water courses, and prevent downstream erosion problems. These facilities are designed to hold a volume of runoff based on the amount of impervious area and a specific design storm event. Quality and flow-control facilities can be located on either public or private property, depending upon the area being served. See Exhibit 4-79.

Stormwater quality enhancement facilities include water-quality (wet) ponds, biofiltration swales, infiltration facilities, and bioretention systems. The purpose of these facilities is to remove a certain type and/or amount of pollutant from the runoff before it is discharged into a water body or collection system or dispersed over the ground for infiltration. These facilities may be located on public or private property depending upon the area being served. See Exhibit 4-79.

Permit conditions may apply to development activities taking place within Kitsap County, for compliance with minimum requirements of the Kitsap County Stormwater Management Ordinance. Drainage control and water quality enhancement facilities constructed for large residential projects can be dedicated to Kitsap County Stormwater Division for maintenance. Facilities constructed for commercial and multifamily developments are maintained privately.

## Inventory of Current Facilities

### Exhibit 4-79 Inventory of Current Facilities - Stormwater

Type of System	Quantity	Note
<b>Basins</b>		
Detention Dry	268	(Detention Pond)
Detention Wet	3	(Detention Pond)
Retention	76	(Retention Pond)
Tank	102	(Tank or Vault)
Vaults	46	(Tank or Vault)

Type of System	Quantity	Note
Constructed Wetland	3	
Infiltration Trench	1	
Natural	0	
<b>Conveyance</b>		
Perf Pipe	130	(Infiltration basin/trench)
<b>LID</b>		
Bioretention Cell	113	(Bioretention facility)
Bioretention planter	0	
Bioswale	12	(Biofiltration Swale)
Enhanced Ditch	40	
Filtterra Strip	0	
Filtterra	29	(Tree box filter)
Grass Swale	170	(Biofiltration Swale)
Modular Wetland	5	(Underground WQ filter)
Permeable Pavement	28	
Rain Garden	21	(WQ filter)
Rain Garden in a box	4	(Tree box filter)
<b>Inlets</b>		
CDS	24	(Hydro WQ Device)
OWS2	89	(WQ Device)
Tide gates	13	(Tide gates)

Source: Kitsap County Stormwater Division, 2023

## Level of Service Capacity Analysis

The Kitsap County Stormwater Division has maintenance responsibility for more than 615 stormwater retention/detention and runoff quality enhancement facilities. More than 55 newly constructed and private residential facilities are expected to be included in the Stormwater Division Inspection and Maintenance Programs within the next two years. Approximately 43 percent of the 2016 Stormwater Division Program budget is slated for inspection, maintenance, and retrofitting of County stormwater facilities.

The goals and objectives of the County's Stormwater Program reflect the level of service (LOS) for stormwater management facilities. The Stormwater Capital Improvement Program, adoption of the Kitsap County Stormwater Management Ordinance, and watershed planning activities undertaken by the Department of Community Development all contribute to the public's level of service expectations.

## **Current Level of Service**

The current level of service complies with a 2007 National Pollution Discharge Elimination System permit. Land development activities requiring land use approval from Kitsap County are conditioned to meet the water quality, runoff control, and erosion control requirements of Kitsap County's Stormwater Design Manual, which was updated in 2021.

The Kitsap County Stormwater Design Manual requires development projects to provide water quality enhancement for 91 percent of the runoff volume generated at the project site. When discharging to streams or open channels, runoff rates from development sites are required to be controlled to meet stream bank erosion control standards. These standards require that post-developed peak flow runoff rates do not exceed pre-developed rates for all stormwater flows ranging from 50 percent of the two-year flow through the 50-year flow as predicted by the Western Washington Hydrology Model. Alternative design criteria are pending by December 2013 based on the National Pollution Discharge Elimination System permit for Western Washington Phase II, issued by the Department of Ecology in 2013.

## **Capital Projects and Funding**

The Stormwater Capital Improvement Program focuses on correction of drainage problems that are not likely to be financed by the County's road fund. The objective of the program element is to secure enough funding to construct projects that address identified water quality problems, publicly owned fish passage barriers, and serious flooding problems located beyond County rights-of-way.

The County's stormwater facilities include 13 capital projects in the six-year planning period at a cost of \$17.5 million. See Exhibit 4-80.

New development in the 2030-2044 period will meet LOS criteria through compliance with applicable regulatory criteria. Other stormwater capital projects in the 2030-2044 period may include regional retrofits or restoration projects designed to address historical problems. The specific schedule, costs, and revenue sources for these 2030-2044 projects will be identified through future six-year CIP planning processes.

**Exhibit 4-80 Kitsap County Stormwater Capital Projects (All numbers are in 2024 \$1000s)**

Category/Project Description	Revenue Source other than Stormwater Fee Funding	Cost 2024-2029	Total Cost
<b>Category I: Capacity Increasing Projects</b>			
Bucklin Hill/Tracyton Regional Stormwater Facility	Ecology and other grant funding	2,900	2,900
<b>Category II: Capital Replacement, Maintenance and Operations</b>			
Silverdale Way Preservation	Grant Funding	550	550
CIPP (Cured-In-Place-Pipe) Pipe Replacement Project	Grant Funding	2,750	2,750
Illahee Regional Stormwater Treatment Facility	Grant Funding	1,150	1,150
Spirit Ridge Asset Replacement	Grant Funding	1,150	1,150
Suquamish Regional Stormwater Treatment Facility	Ecology and other grant funding	3,912	3,912
Tracyton Green Streets Stormwater Retrofit	Ecology and other grant funding	2,000	2,000
Lund Avenue Bioretention	Grant Funding	500	500
Tracyton Boat Ramp Bioretention	Grant Funding	500	500
Silverdale Way Stormwater Retrofit	Grant Funding	500	500
Navy Yard City Stormwater Retrofit	Grant Funding	700	700
Bellpark/Virginia Stormwater Retrofit	Grant Funding	345	345
Tracyton Blvd Bioretention	Grant Funding	517.5	517.5
<b>Total</b>		<b>17,474.5</b>	<b>17,474.5</b>

Source: Kitsap County Stormwater Division, 2023

**Exhibit 4-81 Kitsap County Stormwater Capital Project Costs (All numbers are in 2024 \$1000s)**

Category Summary	Cost Years 2024-2029	Total Cost
<b>Category I (Capacity Projects Required to Meet LOS)</b>	2,900	2,900
<b>Category II (Other Projects Needed for Maintenance and Operations)</b>	14,575	15,457.5
<b>Total</b>	<b>17,474.5</b>	<b>17,474.5</b>

Source: Kitsap County Stormwater Division, 2023



**Exhibit 4-82 Kitsap County Stormwater Capital Project Revenues (All numbers are in 2024 \$1000s)**

Revenue Source	Revenue Years 2024-2029	Total Revenue
<b>Dept. of Ecology/Other Grant Funding</b>	6,156	6,156
<b>REET-2</b>	0	0
<b>Stormwater Fees</b>	11,318.5	11,318.5
<b>Total</b>	17,474.5	17,474.5

Source: Kitsap County Stormwater Division, 2023

## 4.8 TRANSPORTATION

### Overview

This section addresses motorized and non-motorized modes of travel. The section provides an inventory of existing facilities, an analysis of levels of service, a six-year transportation improvement program and a 20-year project list describing improvements and costs. Detailed revenue sources are provided for the six-year program. Long-range revenue projections and alternative sources are addressed in Chapter 3.

**Exhibit 4-83 Federal Functional Classifications**

Functional Classification	Description
Freeway	A freeway is a multilane, high-speed, high-capacity roadway intended primarily for motorized traffic. Freeways in Kitsap County are all under the jurisdiction of WSDOT.
Principal Arterial	Principal arterials primarily serve a mobility function, and typically have uncontrolled access. Principal arterials provide for movement between surrounding urban and rural intra-county population centers. As such, this roadway facility classification predominantly serves "through" traffic with minimum direct service to abutting land uses. Principal arterials provide routes for public transit systems between major communities within the county.
Minor Arterial	Minor arterials provide access to the principal arterial and freeway systems. They provide a lower level of travel mobility than principal arterials to major communities within the county. They provide primary access to or through communities of high-density residential, commercial, or retail, or industrial land areas. They provide access to abutting properties at predetermined locations. Trip lengths on minor arterials are

Functional Classification	Description
	moderate and generally exceed 5 miles. Minor arterials provide routes for public transit systems between major communities within the county.
Major Collector	Major collectors provide the primary access to a minor arterial for one or more neighborhoods or non-residential areas. Collectors distribute trips to and from the arterial system. They provide a limited amount of travel through neighborhoods and non-residential areas that originate and terminate externally. Collectors provide direct connections to local roads and minor collectors. They provide collection and distribution routes for public transit systems. The basic trip length is generally between 2 and 10 miles.
Minor Collector	Minor collectors provide direct access to local roads and driveway access points to abutting properties. They provide for internal distribution of trips within a neighborhood or non-residential area, or part of a neighborhood or non-residential area. Minor collectors contain a limited amount of through traffic; traffic is primarily local in nature.
Local	A local access street provides access immediately to adjacent properties. Characteristics of local streets include low traffic volumes, maximum of two travel lanes, no medians, 3-to-4-foot shoulders, no access control, and no preference at signals. Sidewalks and parking may be permitted. Local streets should connect local properties to minor collector streets and, in turn, to higher-class facilities. Fixed bus service is generally not provided along local streets.
Local Sub-Collector	Local Sub-collectors serve as primary access to developments and provide circulation within neighborhoods. They typically serve one neighborhood or a combination of a few small developments. They channel traffic to the collect system from the local roads in residential neighborhoods.

Source: Kitsap County Public Works Department, 2020.

## Inventory of Current Facilities

### Exhibit 4-84 County Roadway Inventory

Functional Classification	Total Miles of Roadway	Percentage of Total
Freeway/Expressway	0.22	0.2
Principal Arterial	5.54	0.6
Minor Arterial	106.58	11.6
Major Collector	146.51	15.9
Minor Collector	49.91	5.4

Functional Classification	Total Miles of Roadway	Percentage of Total
Local Collector	94.22	10.2
Local Sub-Collector	94.22	10.2
Total	922.13	100.0 percent

Source: Kitsap County Public Works Department, 2020.

## Level of Service Capacity Analysis

### Roadway Level of Service

Level of Service (LOS) designations are qualitative measures of congestion that describe operational conditions within a traffic stream and take into consideration such factors as volume, speed, travel time, and delay. Six letter designations, "A" through "F," are used to define level of service. LOS A and B represent conditions with the lowest amounts of delay, and LOS C and D represent intermediate traffic flow with some delay. LOS E indicates that traffic conditions are at or approaching congested conditions and LOS F indicates that traffic volumes are at a high level of congestion with unstable traffic flow (Transportation Research Board, 2010). The characteristics of the six LOS designations for roadway segments and intersections are summarized in Exhibit 4-83.

### Level of Service Standards

Level of service standards are used to evaluate the transportation impacts of long-term growth and to ensure concurrency. Jurisdictions must adopt standards by which the minimum acceptable roadway operating conditions are determined and deficiencies may be identified.

Level of service standards for county arterials and state highways in Kitsap County involve three different policy approaches established by Kitsap County, PSRC, and WSDOT. While somewhat diverse in application, all the standards and methodologies are consistent with the Highway Capacity Manual (Transportation Research Board 2016) definitions and procedures.

### County Roadways

Kitsap County's level of service policy generally recognizes that urban areas are likely to have more congestion than rural areas. This reflects the different characteristics of land use and transportation in these areas. For purposes of defining level of service standards, urban areas are the geographic areas located within a UGA boundary, and rural areas are the geographic areas located outside UGA boundaries.

In rural areas, the system of major roads must have sufficient access to the abutting land uses, but because of the low level of land development, rural roads have small capacity requirements. In contrast, urban areas typically attract and generate high volumes of traffic. In order to facilitate through traffic and minimize congestion, major roads may have limited access to adjacent land uses while the more minor roads serve as access points to the surrounding development. The increased density and activity in an urban area inherently results in higher levels of congestion. Drivers are aware of the differences in land use between urban and non-urban areas and generally are more tolerant of congestion and the associated lower level of service in urban areas than in rural areas.

The level of service standards shown in Exhibit 4.85 are based on the location and functional classification of the roadway facilities to which they apply. Kitsap County uses traditional engineering methodology to evaluate level of service of roadway segments, which are sections of roadway located between major intersections. Level of service is based on the Volume-to-Capacity ratio (V/C), which is calculated by dividing the traffic volume on a roadway by the roadway's vehicle capacity. Methods applied to calculate level of service for roadway segments and intersections is described later in the Impacts section of this chapter.

### **Level of Service Analysis**

Level of service standards are used to evaluate the transportation impacts of long-term growth and to ensure concurrency. Jurisdictions must adopt standards by which the minimum acceptable roadway operating conditions are determined, and deficiencies may be identified.

Kitsap County's level of service policy generally recognizes that urban areas are likely to have more congestion than rural areas. This reflects the different characteristics of land use and transportation in these areas. For purposes of defining level of service standards, urban areas are the geographic areas located within a UGA boundary, and rural areas are the geographic areas located outside UGA boundaries.

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The level of service standards shown in Exhibit 4-85 are based on the location and functional classification of the roadway facilities to which they apply. Kitsap County uses traditional engineering methodology to evaluate level of service of roadway segments, which are sections of roadway located between major intersections. Level of service is based on the Volume-to-Capacity ratio (V/C), which is calculated by dividing the traffic volume on a roadway by the roadway's vehicle capacity. However, the measure is multimodal in nature: For each street, the capacity is based upon its multimodal characteristics, including the number of lanes, traffic control, and whether or not it has transit, pedestrian, and bicycle facilities. The County has adopted roadway volume-to-capacity (V/C) thresholds of 0.79 to 0.89 (depending on rural versus urban respectively) that indicate the highest level of traffic that a roadway can carry before it is considered deficient.

**Exhibit 4-85 Level of Service - County Roadway Inventory**

Functional Classification	Maximum V/C Ratio/LOS Standard	
	Urban	Rural
Principal Arterial	0.89/D	0.79/C
Minor Arterial	0.89/D	0.79/C
Collector	0.89/D	0.79/C
Minor Collector	0.89/D	0.79/C
Residential/Local	0.79/C	0.79/C

*Source: Kitsap County Transportation Planning, 2023*

The Kitsap County Concurrency Ordinance, codified in KCC 20.04, establishes the process for determining whether a development project meets concurrency. Though the County's goal is to have no LOS deficiencies, it is recognized that not all roadways will meet the standards all the time given the limits of county, state, and federal funding and timing of project improvements. Therefore, 15 percent of lanes miles tested for concurrency will be allowed to temporarily exceed LOS standards. This 15 percent allowance shall be applied at both the system wide and project site level. Generally, the 15 percent threshold for road concurrency is the County's adopted strategy to ensure LOS standards are within an accepted range and is not an acknowledgement of an LOS deficiency. This 15 percent is evaluated on a county wide basis and includes both rural and urban areas. Concurrency is satisfied if no more than 15 percent of county road lane-miles exceed LOS standards.

By adopting an area-wide standard, the County acknowledges the fact that not every roadway facility or link in the network will meet the adopted facility LOS standards all the

time. Measures of area-wide concurrency are conducted periodically, such as during updates of the Comprehensive Plan, for sub-area planning, and when corridor studies are conducted.

The 15 percent allowance relates to individual development proposals undergoing a concurrency test. If LOS is equal to or better than the adopted standard, the concurrency test is passed, and an applicant is issued a Capacity Reservation Certificate. For purposes of concurrency determination, the analysis of LOS adequacy would only be applied to County arterials and collectors in rural areas and urban areas under the County’s jurisdiction. A Certificate of Concurrency is not issued to any proposed development if the standards in this section are not achieved and maintained within the six-year period allowed by GMA for transportation concurrency. The applicant has the option of accepting the denial of application; appealing the denial of application; or accepting a 90-day reservation period and, within this time, revising the development proposal to bring transportation within concurrency requirements. Approximately 2.2 percent of lane-miles of functionally classified roadways in Kitsap County currently exceed adopted segment LOS standards. This is well below the 15 percent concurrency threshold, and indicates that under the current concurrency management program, the system-wide concurrency test would be passed for a considerable level of additional development.

**Exhibit 4-86 Transportation Capital Improvement Projects (All numbers are in 2024 \$1000s)**

Category/Project Description	Revenue Source	Total Cost 2024-2029
<b>Capital I: Capacity Increasing Projects</b>		
Fairgrounds Road- Sidewalk Improvements	Federal Funds, Local Funds	5010
STO-Port Gamble Trail Segments AE	Local Funds	250
NSTO- Port Gamble Trail Segment C	Federal and Local Funds	12,410
SR 104 Holding Lane/ ATMS	Federal, State, Other Funds	1646
Lund- Harris to Chase	State, Local, Impact Fee Funds	4586
Lund & Hoover	Federal, Impact Fee, Local Funds	3318
Ridgetop Mickelberry to Myhre (All Phases)	Federal, Local, and Impact Fee Funds	23,020
Sidney- City Limits to Lider	Local Funds	50

Category/Project Description	Revenue Source	Total Cost 2024-2029
North Kitsap Service Center		
STO- Port Gamble Trail Carver Dr.	Local Funds	210
STO- Port Gamble Trail Segment D	Local Funds	1470
Burley Olalla- Bandix to Fagerud	State, Local, Other Funds	818
Lund- Chase to Jackson	Federal and Impact Fee Funds	3275
Sidney & Pine	Federal Funds	3190
Squamish/Augusta- South St. Winfred	Federal and Local Funds	4324
Anderson Hill Road/ Apex Airport Road	State and Local Funds	500
Anderson Hill- Segment Phase 1	Local Funds	400
North Kitsap Service Center	Local Funds	10149
County Wide Sidewalk	Local Funds	1200
<b>Category II: Capacity Increasing Projects</b>		
Taylor Road Bridge	Federal Funds	10
160 <sup>th</sup> Street	Local Funds	165
W. Hills STEM School- Nat'l Ave. Roadway Improvement	Federal and Local Funds	2550
East Hilldale Road- Culvert	Local Funds	725
CodeGreen	Federal Funds	484
Newberry Hill Road- Culvert	Federal and Local Funds	3670
Oak Road (SE) - Culvert	Local Funds	125
Bahia Vista Slide Repair	Local Funds	500
SR 104 Realignment	Local Funds	40
Glenwood Road	State and Other Funds	2520
Lake Flora- City Limits to J M Dickinson	Federal and Local Funds	911
Silverdale Way Preservation Project	Local Funds	3160
Harper Estuary Restoration	Federal, State, Local, Other Funds	6109
Lund & Chase Roundabout	State, Impact Fee Funds	3335

Category/Project Description	Revenue Source	Total Cost 2024-2029
Perry- Stone to Sheridan	Federal and Local Funds	3297
Norwegian Point Restoration	Federal and Local Funds	1700
Beach Drive- Main to Calm Bay Ct	Federal and Local Funds	3150
Little Boston Road- Shipbuilder Creek Culvert #15115	State Funds	1500
Glenwood Pint to Christmas Tree	State and Local Funds	1948
Viking- Sherman Hill to city limits	Local Funds	980
Viking & Sherman Hill	Local Funds	240
Hansville- Delaney to Salish	Local Funds	10
Horizon Lane SE	Local Funds	70
Hansville and SR 104	Federal and State Funds	409
Anderson Hill Road Corridor Study	Federal and Local Funds	500
Brownsville- Gilberton Bridge (Bridge #2)	Local Funds	225
Riddell & Almira	Local Funds	225
Newberry Hill & Dickey & Eldorado	Local Funds	200
Sidney & Lider	Local Funds	255
Provost Rd. - Strawberry Creek Culvert	Local Funds	40
North STO Planning Study	Federal Funds	20
Hansville NM Pre-Design Study	Local Funds	20
STO- Central Pre-Design Study	Federal Funds	500
Suquamish to Gunderson NM Pre-Desing Study	Federal Funds	500
Little Boston NM Pre-Design Study	Local Funds	20
Project Close-Out and Plant Establishment	Local Funds	240
County Wide Culvert Projects	Local Funds	600
County Wide Surfacing Upgrades	Local Funds	1200
County Wide Safety Improvements	Local Funds	1200



Category/Project Description	Revenue Source	Total Cost 2024-2029
County Wide Bicycle/Ped. Improvements	Local Funds	1350
WSDOT Project Participation	Local Funds	600
<b>Total</b>		<b>115,379</b>

Source: Kitsap County TIP, 2023

**Exhibit 4-87 Transportation Capital Improvement Revenue Sources (All numbers are in 2024 \$1000s)**

Revenue Source	Total Revenue Years 2024-2029
Federal Funding	53,732
Local Funds	42,269
State Funds	13,315
Impact Fees	6,063
<b>Total</b>	<b>115,379</b>

Source: Kitsap County TIP, 2023

## 4.9 WASTEWATER: SANITARY SEWER

### Overview

There are a total of 13 wastewater collection systems and 10 wastewater treatment facilities in Kitsap County, which serve approximately 40 percent of the total County population. The majority of the rural population uses on-site septic systems.

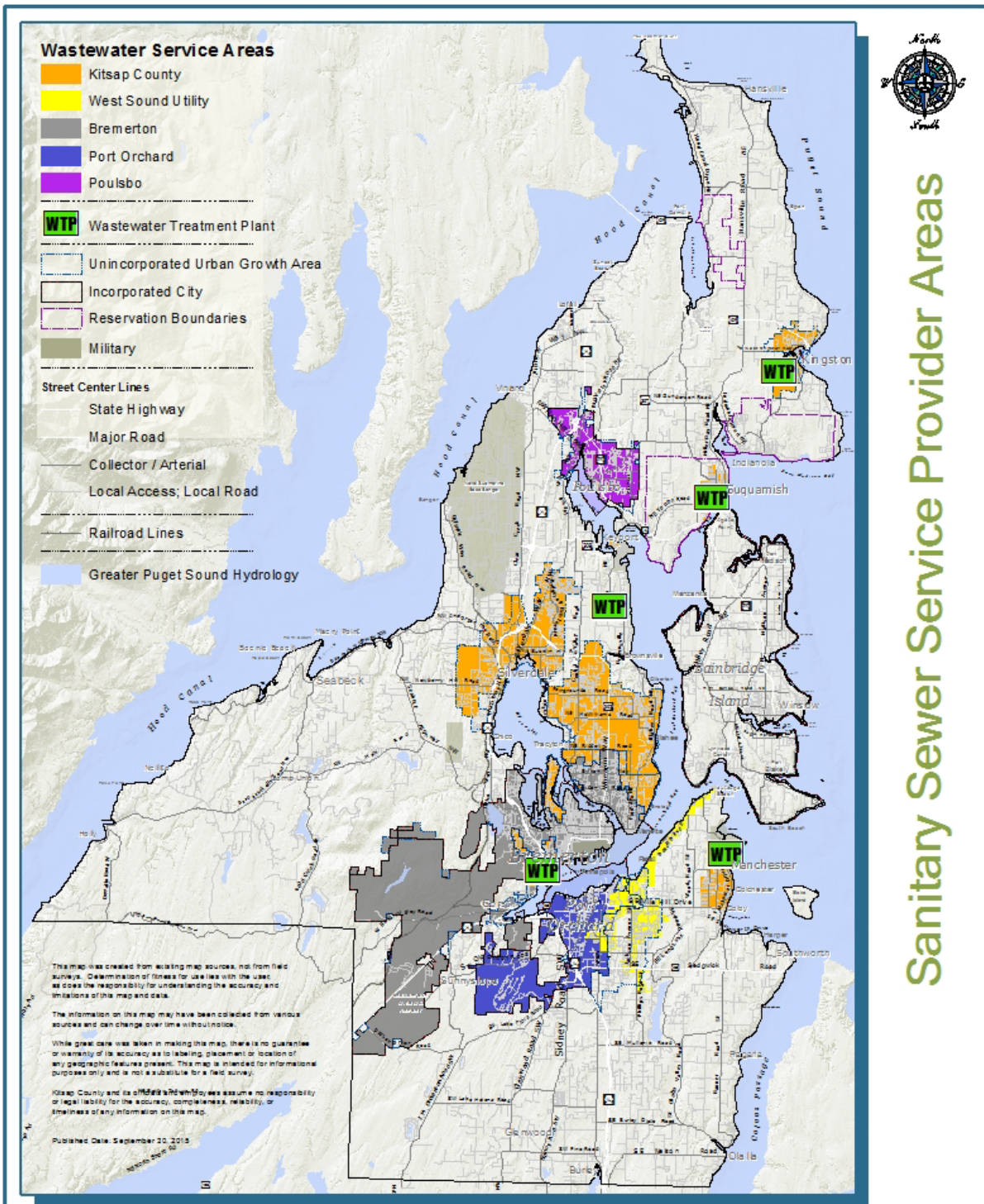
Several agencies within the County provide sanitary sewer services:

1. Kitsap County manages five wastewater collection systems: Central Kitsap, Kingston, Manchester, Navy Yard City, and Suquamish, and four treatment plants servicing Central Kitsap, Manchester, Suquamish, and Kingston.
2. The City of Bremerton maintains and operates collection and treatment systems for the East Bremerton UGA, portions of the West Bremerton UGAs, and the Gorst UGA.

3. The City of Poulsbo maintains a collection system and contracts with the County to treat city wastewater at the Central Kitsap Treatment Plant in Brownsville.
4. The City of Port Orchard and West Sound Utility District independently operate their respective collection systems and jointly own the treatment facility at Annapolis. West Sound Utility District is responsible for daily operation of the treatment plant.
5. The Port Gamble/S'Klallam Tribe owns and operates a small collection system and treatment facility that serves the community east of Port Gamble Bay.
6. Pope Resources owns and operates a collection system and secondary treatment plant serving the Port Gamble town site and mill site.
7. The Port of Bremerton owns and operates a collection and treatment system that serves the commercial development on Port property.
8. The U.S. Navy manages wastewater collection systems on federal reservations and contracts with Kitsap County and the City of Bremerton to treat its effluent. It is a major contributor to several wastewater treatment plants in Kitsap County, with the Central Kitsap plant receiving the most.

Major providers to urban areas are shown in Exhibit 4-88.

# Exhibit 4-88 Wastewater Service Areas



This map was created from existing map sources, not from field surveys. Determination of fitness for use lies with the user, who does the responsibility for understanding the accuracy and limitations of this map and data.

The information on this map may have been collected from various sources and can change over time without notice.

While great care was taken in making this map, there is no guarantee or warranty of its accuracy as to labeling, placement or location of any geographic features present. This map is intended for informational purposes only and is not a substitute for a field survey.

Kitsap County and its officials and employees assume no responsibility or legal liability for the accuracy, completeness, reliability, or timeliness of any information on this map.

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Inventories of the existing municipal, county, and private wastewater facilities located in Kitsap County are presented in this section. The inventories are summarized within each facility section below. The inventory tables show the LOS as flow design capacity in millions of gallons per day (mgd), 2022 existing flow capacity, and corresponding 2022 flow capacity surpluses or deficits, and the existing populations served within each wastewater system. Maps are provided in Appendix A that show location and type of existing and future sanitary sewer facilities

## City of Bremerton

### Overview

The City of Bremerton maintains and operates a wastewater collection and treatment system that provides service to the West Bremerton, East Bremerton, and Gorst UGAs.

The system also accepts wastewater flows from the Puget Sound Naval Shipyard (PSNS), other U.S. Navy facilities, and Kitsap County Sewer District No. 1 (KCSD No. 1) in West Bremerton. Other than the U.S. Navy, the system does not provide sewer service for any significant industrial dischargers.

### Inventory of Current Facilities

The City of Bremerton currently operates two wastewater treatment facilities. The Westside Wastewater Treatment Plant (WWTP) in West Bremerton provides secondary wastewater treatment for the entire service area and discharges to Sinclair Inlet. Biosolids produced at the Westside Plant are treated through anaerobic digestion, dewatered by centrifuge, transported and applied to permitted forestland owned by the City. The Eastside Treatment Facility provides treatment for combined wet weather and sewer flows from East Bremerton and discharges to Port Washington Narrows.

A network of gravity sanitary sewer pipelines, pump stations, and force mains delivers flows from the collection system to these treatment facilities. The various East Bremerton collection facilities deliver combined sanitary sewer flows to the East Bremerton beach main. During normal dry weather operations East Bremerton flows are delivered from the East Bremerton beach main to West Bremerton through 16- and 24-inch inverted siphons.

The wastewater is then pumped into the Crosstown Pipeline force main and gravity-pressure sewer main system by pump station CE-1, along with flows from various West Bremerton basins. The Crosstown Pipeline delivers these pumped flows to the Westside WWTP. Wastewater from the remaining West Bremerton service areas is delivered to the WWTP via gravity sewer mains and pump stations.

During wet-weather conditions the East Bremerton beach main is pressurized by pump station EB-2 to increase peak flow capacity and most of the combined sewage flow is diverted to the Eastside Treatment Facility. The flow is treated at the facility and discharged to Port Washington Narrows.

The hydraulic capacity of the city's combined wastewater collection system and associated components is adequate to convey dry weather wastewater flows to the Westside WWTP for treatment. However, during extreme wet weather storm events, combined wet weather and wastewater flows can exceed the hydraulic capacity of the city's existing conveyance. When this occurs, excess untreated combined sanitary sewer flows have historically been allowed to overflow to receiving waters of Puget Sound. As a result of increasing water quality and environmental mandates, federal and state regulations have been developed to limit the occurrence of untreated CSOs.

The Eastside Treatment Facility was designed to provide treatment for the East Bremerton sewer flows during wet weather storm events to meet Puget Sound water quality standards. The facility was functional in December 2001 and completed in 2002.

The Health District declared Gorst and the surrounding area a "severe public health hazard" in 1997, due to the large number of failing septic systems in the area. The City of Bremerton received American Resource Recovery Act and other grant funding to construct two new municipal pump stations and a collection system that covers a 326-acre area. A total of 103 residences and 29 existing commercial businesses are connected to the Gorst sewer system. Flows are pumped to the Westside Wastewater Treatment Plant.

The City of Bremerton updated the Combined Sewer Overflow (CSO) Reduction Plan for Bremerton's drainage basins and began the "Cooperative Approach to CSO Reduction" in 2000. A total of 23 projects were completed, including two new pump stations, seven pump station upgrades, over 12 miles of new sanitary and storm sewers, construction of the new Eastside Wet Weather Treatment Plant, and a major upgrade to the Westside Wastewater Treatment Plant. The final CSO project was completed in 2009.

The city produces a CSO report that is submitted to Ecology on an annual basis. The 2010 report shows that the CSO reduction program has been very successful in reducing total overflow volume and frequency, with overflow volume reduced by 96.4 percent, frequency of events reduced by 99 percent, and compliance with CSO reduction requirements at all 15 sites. See the Bremerton Comprehensive Plan, 2014 Wastewater Comprehensive Plan Update, 2008 Wastewater Conveyance Planning document, and 2016 Capital Improvement Plan for further details.

### Exhibit 4-89 Inventory of Current Facilities – City of Bremerton

Miles of Pipe <sup>1</sup>	Existing Flow (mgd) <sup>1</sup>	Design Flow (mgd) <sup>1</sup>	Surplus/Deficit, (mgd)	2023 Population Served	Existing Connections ERU <sup>2</sup>	Surplus/Deficit ERU <sup>3</sup>
176					10608	

Source: City of Bremerton Public Works, 2023

### Level of Service Analysis

The wastewater facilities in place currently meet level of service standards for the population served.

### Capital Projects and Funding

#### Exhibit 4-90 Bremerton Solid Waste Capital Projects (All numbers are in 2024 \$1000s)

Category/Project Description	Revenue Source	Total Cost 2022-2028
<b>Capital Improvement Projects</b>		
Mains		24,706
Pump Stations and Treatment		22,365
<b>Total</b>		<b>47,071</b>

Source: City of Bremerton Public Works, 2023

## City of Port Orchard

### Overview

The City of Port Orchard maintains and operates a wastewater collection system that provides service to the City of Port Orchard. The collection system includes 46 miles of gravity sewer, 9 miles of force mains, and 11 miles of septic tank effluent pumping (STEP) mains. Three new pump stations have been built for a total of 19 pump stations in the collection system. Pipes range from 2-inch to 24-inch in diameter.

The City of Port Orchard and West Sound Utility District (WSUD) jointly own the South Kitsap Water Reclamation Facility located east of Port Orchard along the south shore of Sinclair Inlet. The facility is operated by WSUD.

2023 City of Port Orchard population is approximately 13,250. Future wastewater collection system needs for the City are described in the City of Port Orchard Comprehensive Sanitary Sewer Plan Update, which is currently being updated.

## Inventory of Current Facilities

### Exhibit 4-91 Inventory of Current Facilities – City of Port Orchard

Miles of Pipe <sup>1</sup>	Existing Flow (mgd) <sup>1</sup>	Design Flow (mgd) <sup>1</sup>	Surplus/ Deficit, (mgd)	2023 Population Served	Existing Connections ERU <sup>2</sup>	Surplus/ Deficit ERU <sup>3</sup>
66	1.1	2.1	1.0	13,250	6,111	5,556

Source: Port Orchard CIP, 2016

McCormick Lift Stations No. 1 and 2 have been replaced. The Marina Lift Station is currently under design.

### Level of Service Analysis

The system has 46 miles of gravity sewers, 9 miles of force mains, and 11 miles of STEP mains. There are 19 pump stations in the system.

### Capital Projects and Funding

#### Exhibit 4-92 Port Orchard Capital Projects (All numbers are in 2014\$1000s)

An updated version of the Port Orchard Capital Improvement Plan is in progress and the following tables will be updated when it is made available.

Category/Project Description	Revenue Source	Total Cost 2016-2021
<b>Capital Improvement Projects</b>		
McCormick Pump Station 2- Construction		1100
McCormick Pump Station 1- Construction		1100
<b>Category II: Capacity Increasing Projects</b>		
Marina Pump Station Improvements		3800
Bay Street Pump Station Improvements		1100
McCormick Pump Station 2- Design		190
McCormick Pump Station 1 - Design		180
Eagle Crest Generator Set		155
<b>Total</b>		<b>7,625</b>

Source: Port Orchard CIP, 2016

## City of Poulsbo

### Overview

The current sanitary sewer service area for the City of Poulsbo is primarily within the city limits. The city contracts with Kitsap County for wastewater treatment at the Central Kitsap Treatment Plant. The City and County are currently planning and implementing improvements to both the City and County's existing systems to reduce infiltration and inflow and to increase the capacity of the conveyance system.

### Inventory of Current Facilities

**Exhibit 4-93 Inventory of Current Facilities – City of Poulsbo**

Miles of Pipe <sup>1</sup>	Existing Flow (mgd) <sup>1</sup>	Design Flow (mgd) <sup>1</sup>	Surplus/Deficit, (mgd)	2022 Population Served	Existing Connections ERU <sup>2</sup>	Surplus/Deficit ERU <sup>3</sup>
31	0.61	1.2	0.59	9,950	4,540	1,940

Source: City of Poulsbo CIP, 2022

### Level of Service Analysis

As Exhibit 4-93 shows, the City of Poulsbo wastewater system has a current (2023) surplus of 1,940 equivalent residential units (ERUs), which has sufficient capacity to accommodate population growth for the City of Poulsbo during the planning period.

### Capital Projects and Funding

**Exhibit 4-94 City of Poulsbo Sewer Capital Projects (All numbers are in 2024 \$1000s)**

Category/Project Description	Revenue Source	Cost 2024-2029	Cost 2030-2044	Total Cost
<b>Category I: Capacity Increasing Projects</b>				
Kitsap County - Lemolo Shores Pipeline Upgrade	Sewer Reserves	4,100		4,100
Kitsap County - Nutrient Process Upgrade	Sewer Reserves	79.15		79.15
Lemolo House Purchase	Sewer Reserves	500		500
SR305 Force Main Extension	Sewer Reserves	2,810		2,810
<b>Category II: Capital Replacement, Maintenance and Operations</b>				
Bangor/Keyport Forcemain Replacement	Sewer Reserves	955.66		955.66



Kitsap County - HVAC Upgrades	Sewer Reserves	350		350
Kitsap County - Solids & Liquid Haul Upgrade	Sewer Reserves	11,459.6		11,459.6
Kitsap County - SCADA System Upgrades	Sewer Reserves	590.4		590.4
Kitsap County - Third Lemolo Siphon	Sewer Reserves	1,420		1,420
Lindvog Pump Station Redundant	Sewer Reserves	500		500
Noll Road Sewer Improvements	Sewer Reserves	70		70
Old Town Sewer Upgrades	Sewer Reserves	240		240
Poulsbo MH Sewer Re-Route	Sewer Reserves	350		350

Source: City of Poulsbo CIP, 2022

**Exhibit 4-95 City of Poulsbo Sewer Capital Project Costs (All numbers are in 2024 \$1000s)**

Category Summary	Cost Years 2024-2029	Cost Years 2030-2044	Total Cost
<b>Category I (Capacity Projects Required to Meet LOS)</b>	7,489.15		7,489.15
<b>Category II (Other Projects Needed for Maintenance and Operations)</b>	15,935.66		15,935.66
<b>Total</b>	23,424.81		23,424.81

Source: City of Poulsbo CIP, 2022

**Exhibit 4-96 City of Poulsbo Sewer Capital Project Revenues (All numbers are in 2024 \$1000s)**

Revenue Source	Revenue Years 2024-2029	Revenue Years 2030-2044	Total Revenue
<b>Sewer Reserve</b>	23,424.81		23,424.81
<b>Total</b>	23,424.81		23,424.81

Source: City of Poulsbo CIP, 2022

## West Sound Utility District

### Overview

West Sound Utility District (WSUD) generally serves the City of Port Orchard, including the UGA east and south of the city limits. The district also provides sewer collection service in the rural area along Beach Drive to Watauga Beach. The current service area is approximately 6.25 square miles. The collection system consists of 18 pumping stations and approximately 68 miles of force and gravity main



pipeline ranging in size from 2" to 24". The maximum capacity of the conveyance system is estimated to be 6.0 million gallons per day (mgd). Exhibit 4-54 shows the joint West Sound-Port Orchard wastewater system has a current surplus of about 3,804 ERUs.

### Inventory of Current Facilities and Level of Service Analysis

WSUD is currently able to meet community needs. WSUD 20-year CFP identifies ongoing rehabilitation and replacement of aging infrastructure. The City of Port Orchard and West Sound Utility District (WSUD) jointly own the South Kitsap Water Reclamation Facility located east of Port Orchard along the south shore of Sinclair Inlet. The facility is operated by WSUD and treats wastewater from the service areas of both West Sound and the City of Port Orchard totaling approximately 22,000 people, and discharges to Sinclair Inlet. WSUD and the City jointly own the facility; however, the West Sound Utility District is responsible for management and daily operations. Annual average day flow for 2022 was approximately 1.9 mgd. WSUD and the City expect to continue sharing treatment capacity equally. Upon the expansion in 2006, the facility was re-rated, increasing its capacity from 2.8 mgd to 4.2 mgd, with a peak day capacity of 16 mgd. The current Capital Facilities Plan identifies MBR Capacity Expansion scheduled for 2025 which will accommodate a re-rating increasing capacity from 4.2 mgd to 4.8 mgd with a peak day capacity of 16 mgd.

### Exhibit 4-97 Inventory of Current Facilities – West Sound Utility District

Miles of Pipe <sup>1</sup>	Existing Flow (mgd) <sup>1</sup>	Design Flow (mgd) <sup>1</sup>	Surplus/ Deficit, (mgd)	2023 Population Served	Existing Connections ERU <sup>2</sup>	Surplus/ Deficit ERU <sup>3</sup>
68	1.4	2.1	.07	11,491	4,596	3,804

## Capital Projects and Funding

### Exhibit 4-98 WSUD Sewer Capital Projects (All numbers in 2024 \$1000s)

Category/Project Description	Revenue Source	Cost 2024-2029	Cost 2030-2044	Total Cost
<b>Category I: Capacity Increasing Projects</b>				
Replace Snug Harbor lift station pumps and controls		245		245
Construct lift station and collection system on Beach Dr. at Lidstrom			1,046.22	1,046.22
Brada lift station upsize wet well, pumps, and discharge to accommodate growth			1,202.82	1,202.82
<b>Category II: Capital Replacement, Maintenance and Operations</b>				
Spare Pumps for Lift Stations		51.5		51.5
Replace Conifer Park lift station			399.5	399.5
Replace Grand Ridge lift station			411.38	411.38
Replace Aidan Lift Station		375.3		375.3
Replace Conifer Park lift station			346.13	346.13
Replace Sinclair lift station			346.13	346.13
Replace Villa Carmel pumps and controller			356	356
Replace Orchard Bluff lift station			367.1	367.1
Replace Crownwood lift station			226.85	226.85
Replace concrete mains in area of Lincoln		1,680		1,680
Replace Aging Mains		4,396	16,396.1	20,792.1
Manhole Rehabilitation		328.15	935.68	1,263.83
Engineering Sewer stations and main replacements		525	1,497	2,022
Excise Tax		46.6	120.2	166.8

Source: West Sound Utility District Capital Plan 2023-2043

### Exhibit 4-99 WSUD Sewer Capital Projects Cost (All numbers in 2024 \$1000s)

Category Summary	Cost Years 2024-2029	Cost Years 2030-2044	Total Cost
<b>Category I (Capacity Projects Required to Meet LOS)</b>	245	2249.04	2494.04
<b>Category II (Other Projects Needed for Maintenance and Operations)</b>	7402.55	21402.07	28804.62
<b>Total</b>	7,647.55	23,651.11	31,298.66

Source: West Sound Utility District Capital Plan 2023-2043

**Exhibit 4-100 WSUD Sewer Capital Projects Revenues (All numbers in 2024 \$1000s)**

Revenue Source	Revenue Years 2024-2029	Revenue Years 2030-2044	Total Revenue
General Fund	7,923.194	25,377	33,300.19
General Facility Charges	2,609.684	6,731	9,340.68
Misc. Revenue	65.1	168.27	233.37
Other	6,779.407	22,490	29,269.41
<b>Total</b>	<b>17,377</b>	<b>54,766</b>	<b>71,143</b>

Source: West Sound Utility District Capital Plan 2023-2043

**Port of Bremerton**

**Overview**

The Port of Bremerton operates a public wastewater treatment plant located in the Olympic View Industrial Park on State Route 3 west of Gorst. The service area encompasses the Port’s 1,800 acres, which includes the Bremerton National Airport, the Olympic View Industrial Park, and most recently an Amazon Warehouse.

**Inventory of Current Facilities**

The plant is currently treating between 19,000 – 55,000 gallons per day (gpd) depending on weather and business cycles and is serving approximately 410 persons. The base flow is 19,000-gpd. Flows in excess of that are due to Rainfall Derived Infiltration and Inflow (RDII). Typical levels of sewage generation for light industrial business activity are 25 to 45 gallons of wastewater per day per person.

**Exhibit 4-101 Inventory of Current Facilities – Port of Bremerton**

Miles of Pipe <sup>1</sup>	Existing Flow (mgd) <sup>1</sup>	Design Flow (mgd) <sup>1</sup>	Surplus/ Deficit, (mgd)	2023 Population Served	Existing Connections ERU <sup>2</sup>	Surplus/ Deficit ERU <sup>3</sup>
1.6	19,000 – 55,000 gpd	72,500 gpd	17,500 - 53,500 gpd	963	165	1000

**Level of Service Analysis**

The Port has recently completed a capacity evaluation and is currently working with DOH to obtain an increase in the design capacity of the existing treatment facilities.

## Kitsap County Sanitary Sewer Facilities

### Overview

Kitsap County manages five wastewater collection systems: Central Kitsap, Kingston, Manchester, Navy Yard City, and Suquamish, and four treatment plants servicing Central Kitsap, Manchester, Suquamish, and Kingston

### Inventory of Current Facilities

**Exhibit 4-102 Inventory of Current Facilities – Kitsap County Sanitary Sewer Facilities**

Miles of Pipe <sup>1</sup>	Existing Flow (mgd) <sup>1</sup>	Design Flow (mgd) <sup>1</sup>	Surplus/ Deficit, (mgd)	2023 Population Served	Existing Connections ERU <sup>2</sup>	Surplus/ Deficit ERU <sup>3</sup>
149	3.5	6.0	2.5	57,939	16,518	
15.6	0.11	0.292	0.182	2,553	1,021	
11.1	.23	0.40	0.14	2,663	1,065	
	0.19	0.46	0.27	2,613	1,045	

### Central Kitsap Wastewater Facilities

Kitsap County owns and operates conveyance and treatment facilities in the Central Kitsap service area. This service area is the largest system in Kitsap County and includes the naval facilities at Bangor, Keyport, and the City of Poulsbo along with the Silverdale and Central Kitsap UGAs. The plant also treats septic tank waste hauled to the plant.

The Central Kitsap collection system consists of approximately 44 lift stations and over 149 miles of gravity mains and force mains ranging in size from 2-36 inches in diameter.

Flows from the City of Poulsbo enter the northern portion of the collection system via a gravity siphon crossing from Lemolo to Keyport, across the mouth of Liberty Bay. Some of the collection and transfer systems serving the Meadowdale areas, downtown Silverdale, and northern portion of the Central Kitsap collection system are undersized for existing wastewater flows. A phased expansion of the conveyance and treatment facilities is planned to repair and replace worn facilities, and to extend service to surrounding areas. Construction to accommodate current and future flows are in progress

Treatment facilities at the Central Kitsap Wastewater Treatment Plant (CKWWTP) are currently rated for an Average Daily Flow (ADF) of 6.0 mgd, with a peak hour flow of 15 mgd. The plant utilizes an activated sludge and filtration process for tertiary treatment of wastewater and an ultraviolet light disinfection system. The existing 68-acre site is expected to accommodate layout of facilities for capacity in excess of 25 mgd ADF.

Treated wastewater from the CKWWTP is discharged into the northern portion of Port Orchard Bay in Puget Sound. The outfall pipe has a maximum hydraulic capacity of approximately 31 mgd. The diffuser has a maximum hydraulic capacity of 16 mgd. Future extension of the existing diffuser is expected to provide sufficient dilution for the increased flow. The Central Kitsap Treatment Plant treats 3.5 mgd average annual flow (2020). The effluent is discharged approximately 3,200 feet offshore at a depth of 46 feet below mean low water.

The CKWWTP is the regional sludge treatment center for all County-owned treatment plants and septage from on-site treatment systems. Approximately 30 to 40 percent of the solids treated at the CKWWTP are derived from septage or sludge from the County's outlying treatment plants. Sludge treatment facilities at the CKWWTP include thickening, anaerobic digestion and dewatering. Currently, dewatered sludge is hauled to eastern or southwestern Washington for composting or land application. Future wastewater collection systems for the Silverdale and Central Kitsap UGAs include a total of 52 new pumping stations, with 135 miles of new gravity sewer and force mains to complete the major sewer collection system of these UGAs.

### **Kingston Wastewater Facilities**

Sewer service in the Kingston area is owned and maintained by Kitsap County. The existing Kingston collection system consists of approximately 44,741 feet of gravity sewer pipe ranging in size from 6 to 12 inches in diameter and approximately 37,488 feet of force main ranging from four to eighteen inches in diameter. Six pump stations serve the Kingston area, which serves approximately 777 ERUs.

Completed in May 2005, the Kingston wastewater treatment facility is designed to treat an average daily flow of 292,000 gallons per day. This is a 95 percent increase in capacity from the previous facility and will accommodate residential and commercial growth in the Kingston area for the next 20 years. The plant utilizes an oxidation ditch, with fine-bubble diffused aeration, for biological treatment. Two oxidation ditches were constructed; one for current flows and one to accommodate future growth (500,000 gallons per day). Only the active ditch contains rotating brushes.

Built in conjunction with the new treatment plant and located on the old plant grounds, Pump Station 71 pumps all of the sewage generated in Kingston approximately 1.8 miles to the new plant.

Construction of a new outfall into Puget Sound was included in the improvements. Since the previous outfall was damaged during dredging operations by the State ferry system, the new pipe was located well outside the ferry corridor and extended to 165 feet below

sea level to limit impacts on shellfish harvesting areas. Waste sludge from the Kingston WWTP is currently trucked to the Central Kitsap WWTP for digestion and treatment.

### **Suquamish Wastewater Facilities**

Kitsap County owns and operates the Suquamish wastewater conveyance and treatment facilities that provide sewer service to approximately 2,663 residents in the Suquamish area with sewer service available within the LAMIRD. The newest extension of the existing service area beyond the LAMIRD covers about 37 acres and lies west of Urban Avenue between Geneva Street and South Street. The plant serves the Suquamish Tribal Casino. The Tribal Casino pump station and collection system consist of approximately 58,700 linear feet of pipeline.

The McKinstry Street pumping station and the Division Street pump station are the pumping stations in the collection system. All wastewater in the system flows by gravity to these stations for transfer to the Suquamish WWTP. Existing sewers are sufficient to accommodate additional growth within the existing service area.

The Suquamish WWTP is a secondary plant with an ADF capacity of 0.4 mgd. The U.S. Environmental Protection Agency (EPA) is responsible for issuing the required National Pollutant Discharge Elimination System (NPDES) permit since the treatment plant is located within the Port Madison Tribal Reservation boundary. The County upgraded the existing facilities in 1997, expanding the plant from 0.2 to 0.4 mgd ADF capacity. Sludge from the plant is hauled for further treatment at the Central Kitsap WWTP.

### **Manchester Wastewater Facilities**

Kitsap County owns and operates a small sewer collection and treatment system in Manchester. This system serves a population of approximately 2,613 people and treats an average flow of 0.19 mgd. The Manchester collection system consists of five pumping stations and approximately 60,000 linear feet of pipeline. Public sewers now serve approximately 25 percent of the land within the LAMIRD boundary, although the remaining area is subdivided into smaller parcels and much of it is built out.

The current service area includes the EPA laboratory at Clam Bay and the Manchester Naval Fuel Depot. Waste flows from the Manchester Naval Fuel Depot originate from ships discharging sewage at the facility. Kitsap County has an agreement with the Navy that requires the County to be notified when the Navy plans to discharge wastewater to the County's system. The Navy has storage facilities at the depot to allow holding of wastewater if the County does not permit immediate discharge.

The plant provides for an ADF capacity of 0.46 mgd. Sludge from the Manchester WWTP is thickened, temporarily stored on the plant site and then hauled to the Central Kitsap WWTP for treatment. The outfall provides sufficient capacity for discharge of the projected future wastewater flows. Sludge from the plant is hauled for further treatment at the Central Kitsap WWTP.

### Navy Yard City Sanitary Sewer Facilities (Sewer District 1)

Kitsap County owns and maintains a sewage collection system in the area commonly referred to as Navy Yard City within the West Bremerton UGA. The collection system consists of two pump stations and 9.2 miles of pipeline and serves approximately 970 residential and commercial units.

Over the years, Kitsap County and the City of Bremerton have discussed the possibility of transferring a collection system. Currently, the County contracts with the City for treatment capacity at the West Bremerton treatment facility. Kitsap County and the City of Bremerton expect to continue to discuss the possibility of transferring the collection system to the city through an ILA and Resolution.

### Capital Projects and Funding

**Exhibit 4-103 Kitsap County Sewer Capital Projects (All numbers are in 2024 \$1000s)**

Category/Project Description	Revenue Source	Cost 2024-2029	Cost 2030-2044	Total Cost
<b>Category I: Capacity Increasing Projects</b>				
CKTP Solids and Liquid Hauled Waste Upgrades	Multiple	80,401		
CKTP Third Secondary Clarifier & Replace RAS Pumps	Multiple	1,643.75	8,256.25	9,900
Pump Station 3 Upgrades	Multiple	6,851.5		
Johnson Rd to Norum Rd Pipeline Replacement	Multiple	6,880		
Third Lemolo Siphon	Multiple	1,103	6,897	8,000
Pump Station 4 and CK Piping Upgrades	Multiple	11,050		
Old Military Rd. Piping Upgrades	Multiple	12,200		
Replace Pump Station 53 and Forcemain	Multiple	1,142.75	5,757.25	6,900
Replace Pump Station 54 and Forcemain	Multiple	1,114	5,386	6,400
Replace Pump Station 41 and Upsize Forcemain	Multiple	3,700		
Pump Station 71 Upgrade and Upsize Forcemain	Multiple	7,400		
<b>Category II: Capital Replacement, Maintenance and Operations</b>				
CKTP HVAC Upgrades	Multiple	1,700		1,700
Suquamish TP Upgrades	Multiple	10,500		10,500
CKTP RAS Box Hydraulic Eval and Improvements	Multiple	2,000		2,000



Category/Project Description	Revenue Source	Cost 2024-2029	Cost 2030-2044	Total Cost
CKTP Nutrient Process Upgrades (Methanol Tank)	Multiple	1,500		1,500
SCADA System Upgrades	Multiple	1,746		1,746
CKTP Recycled Water Upgrades	Multiple	1,200		1,200
Replace KTP, STP, and MTP UV Disinfection Systems	Multiple	2,740		2,740
Sewer Utility Facility Plans	Multiple	200		200
Navy Yard City I&I Repair	Multiple	2,400		2,400
Pump Station 24 Emergency Upgrades	Multiple	4,000		4,000
Replace Pump Station 13	Multiple	3,200		3,200

Source: Kitsap County, 2023

**Exhibit 4-104 Kitsap County Sewer Capital Project Costs (All numbers are in 2024 \$1000s)**

Category Summary	Cost Years 2024-2029	Cost Years 2030-2044	Total Cost
<b>Category I (Capacity Projects Required to Meet LOS)</b>	133,486	26,296.50	159,782.5
<b>Category II (Other Projects Needed for Maintenance and Operations)</b>	31,186	0	31,186
<b>Total</b>	164,672	26,296.50	190,968.5

Source: Kitsap County, 2023

**Exhibit 4-105 Kitsap County Sewer Capital Project Revenues (All numbers are in 2024 \$1000s)**

Revenue Source	Revenue Years 2024-2029	Revenue Years 2030-2044	Total Revenue
<b>Sewer Revenue Bonds</b>	50,000	TBD	50,000
<b>DOE State Revolving Fund Loan</b>	9,850	TBD	9,850
<b>DOE Puget Sound Nutrient Reduction Grant</b>	100	TBD	100
<b>Public Works Trust Fund Loan</b>	10,000	TBD	10,000
<b>City of Poulsbo Proportionate Share</b>	25,221	TBD	25,221
<b>USN Keyport Proportionate Share</b>	2,766.5	TBD	2,766.5
<b>Sewer Fees/Construction Fund</b>	66,734.9	TBD	66,734.9
<b>Total</b>	164,672	TBD	164,672

Source: Kitsap County, 2023

## 4.10 WATER

### Overview

Water systems are classified into two categories, Group A (former Classes 1–3) and Group B (former Class 4) systems. According to the Washington State Department of Health (DOH), Group A systems, which have 15 or more service connections or regularly serve 25 or more people 60 or more days per year, currently comprise approximately 95 percent of all the County's public connections; Group B systems, which have less than 15 connections or serve less than 25 people, serve approximately 5 percent of the connections. Most of the Group B systems were developed with a shallow well to serve short plats or small subdivisions and serve only that development.

### Kitsap County Water Planning Programs

Kitsap Public Utility District (KPUD) has been designated by the Kitsap County Board of Commissioners as having countywide responsibility for technical, managerial, financial, operational, and support services needed to provide satisfactory water resource development, protection, and utility service. KPUD also functions as a Satellite System Management Operator throughout the County by provision of direct service, contract service, and support service.

The KPUD has worked cooperatively with the County and local water purveyors to conduct the Groundwater Management Plan (GWMP) process. The District and County have also jointly sponsored the preparation of a Coordinated Water System Plan (CWSP) for Kitsap County. The District, in coordination with Ecology, completed the initial basin assessment for Kitsap County. Each of these planning processes is described in more detail below.

### Kitsap County Ground Water Management Plan

To meet the requirements of the Ground Water Management Act, the KPUD served as a co-lead agency to develop the Draft Kitsap County Groundwater Management Plan completed in 2004. All of Kitsap County has been identified as a groundwater management area. KPUD coordinated with water purveyors in the County, as well as other members of the Kitsap County Groundwater Advisory Committee.

Preparation of the GWMP was done in accordance with the requirements of Chapter 173-100 WAC, Groundwater Management Areas, and Programs. These regulations led to the designation of Kitsap County as a Groundwater Management Area (GWMA) on October 7, 1986. An Interlocal Agreement was entered into between the KPUD and the Kitsap County Board of Commissioners on December 15, 1986. This Agreement established both entities as co-lead agencies for the evaluation and preparation of the GWMP.

## **Kitsap County Coordinated Water System Plan (CWSP)**

The Kitsap County CWSP (revised May 9, 2005) presents an assessment of municipal and industrial water supply needs in Kitsap County and a program to effectively provide water supply and service to customers throughout the area. The CWSP was developed to comply with Chapter 70.116 RCW and Chapter 246-293 WAC by the Water Utility Coordinating Committee (WUCC). The WUCC consists of representatives from each purveyor with over fifty services within the declared area, the county legislative authority, the Kitsap County Department of Community Development and the Kitsap County Health District.

The CWSP provides a process and strategy for the existing water utilities to define their role in a program consistent with adopted land use polices and the projected growth strategy. The regional water supply, transmission, and storage plan represents the collective views of the WUCC and integrates the findings of the Kitsap County GWMP (Water Conservation per Groundwater Plan Volume III).

The September 2011 CWSP Update addresses only those eight water systems that meet the Department of Health definition of “expanding.” These include the Indian Hills, Indianola, Keyport, North Bainbridge, North Peninsula, Suquamish, Vinland, and West Kitsap systems.

### **Water Conservation in the County**

County government supports Group-A water utilities as they pursue ongoing conservation programs. These programs include both supply and demand management measures within individual service areas.

In June 2009, the Board of County Commissioners adopted by resolution a new policy treating water as a resource, not a waste stream. This policy establishes a culture of innovative development and operating practices in order to preserve this natural resource on public property.

Members of the Water Purveyors of Kitsap County (WATERPAK) provide basic conservation kits and literature for water users. They also evaluate the advisability of countywide programs to retrofit existing homes with low flow toilets, low-flow shower heads, restricted flow aerators, and other appropriate devices on a cost-effective basis.

Water utilities conduct leak detection programs that identify problem water losses in distribution systems. The Kitsap County WATERPAK plans to evaluate a regional approach to leakage analysis efforts.

The WATERPAK developed a comprehensive, model water conservation program for small utilities. The conservation program includes conservation objectives, demand forecasting methods, program activities, and level of effort, budget estimates, savings estimates, and evaluation and monitoring criteria. Program activities include education, system monitoring and improvements, promotion of conservation devices, incentives for customers, water production monitoring, drought response conservation, and other appropriate supply and demand management measures. WATERPAK plans to conduct joint conservation efforts with Pierce and Mason counties.

### Inventory of Current Facilities

Exhibit 4-106 shows the current inventory and capacity for the Group “A” Community Water Systems that currently serve the County with 50 approved DOH connections or more. The inventory includes the name of the water system, existing and approved DOH connections, and the capacity of each system.

#### Exhibit 4-106 Inventory of Current Facilities - Water

50+ Connections	Connections (1)		Water Rights (2)			System Information		
	Existing	Approved	Qa (afy)	Qi (gpm)	Qi (cfs)	Source Capacity (gpm) (2)	Storage Capacity (1) (gal in 1,000)	System Owner/Op (1,3)
Alpinewood	98	99	44.6	161		300	0	WW
Bainbridge Island, City of	3,419	Unspec	2,564	3,456	0.35	1,993	2,800	COBI
Bear Cub	58	70	49.5	107		160	17	NWW
Bethel East	52	55	17	20		120	11	NWW
Bill Point Water	84	84	64.2	42		124	30	NWW
BKS	71	73	35	126		180	0	WW
Bremerton West 517 Zone, City of	137	Unspec	6,658	5,743		8,820	1,210	
Bremerton, City of	29,192	Unspec	N/A	17,952	40	13,200	33,200	COB
Bucklin	108	121	42.5	139		114	117	WW
Cedar Glen Mobile Home Park	137	137	31	100		120	32	NWW
Cedarbrook	34	56	30	600		232	0	WW
Driftwood Cove	70	120	32	50		100	83	KPUD
Eldorado Hills	153	157	69	180		210	254	KPUD
Emerald Heights	84	92	90	150		152	95	
Erland Point Water Co	910	Unspec	1344	900	0.25	500	385	
Foss Road	45	51	-	-		-	35	WW

50+ Connections	Connections (1)		Water Rights (2)			System Information		
Fragaria Landing	96	99	32	98		177	28	
Gala Pines Water	52	52	54	155		150	50	KPUD
Glenwood Station	60	62	25	100		100	47	WW
Harbor Heights	71	71	22	100		135	20	WW
Hintzville Acres	66	66	32.5	105		82	11	WW
Holly	87	107	26	110		85	30	NWW
Horizons West	1011	Unspec	449	856		1,210	555	WW
Indian Hills Estates	110	110	115.5	250		126	30	KPUD
Indianola Water	680	Unspec	492	690		481	287	KPUD
Island Lake	323	441	92	80		140	209	AU
Jackson Park Naval Hospital	320	Unspec	-	-		-	3,500	
Johanson	57	56	-	-		-	35	WW
Keyport Water	434	827	858	685		600	401	KPUD
Kitsap Memorial State Pk	38	50	-	-		-	20	
Kitsap West MHC Water Co	96	146	45	250		80	7	
Little Tree	54	54	36	100		70	35	WW
Long Lake View Est 2 5	367	399	152.4	360		212	187	KPUD
Mainland View Manor	54	57	32.5	150		150	0	WW
Manchester Water District	3,495	Unspec	1,673.7	2,260		3,630	3,200	
Martell Mobile Manor	79	79	39.5	171		140	38	NWW
McCormick Woods	1,191	Unspec	450	600		1,830	569	
Meadowmeer	311	355	150	250		432	225	
Miller Bay	429	460	112	200		170	167	KPUD
Minter Creek Rapids	49	55	93	250		235	0	WW
Naval Base Kitsap At Bangor (Subbase Bangor)	2,348	Unspec	N/A	N/A		3,050	3,500	
Naval Base Kitsap At Bremerton (Puget Sound Naval Yard)	1,042	Unspec	N/A	N/A		import	2,500	
Naval Base Kitsap At Keyport (Navy Undersea War Ctr.)	176	Unspec	N/A	N/A		1,000	600	
Navy Yard Park	105	121	48	60		52	110	KPUD
Newberry Hill	81	140	1,950	1,720		100/200	749	KPUD
North Bainbridge Water Co	1,944	2,028	647	1,646		911	842	KPUD

50+ Connections	Connections (1)		Water Rights (2)			System Information		
North Peninsula	5,426	10,000	3,885	2,599.5		1,880	2,602	KPUD
North Perry Ave Water District	8,096	Unspec	4,089.6	4,540		3,560	4,750	
Olalla	81	99	55	130		130	24	WW
Olympic View Mobile Manor	76	76	13	26		70	5	PLC
Parkview Terrace	898	1067	587.1	748		1,580	699	WW
Pine Lake Mobile Home Est 1 3	79	82	48.6	112		138	0	
Port Gamble	61	61	-	-		50	46	KPUD
Port Madison Water Company	103	144	80	30		158	65	KPUD
Port Orchard Water Dept	3,940	Unspec	2,330	1,600		2,600	4,300	
Poulsbo, City Of	5,968	Unspec	2,147	1,940	1.2	2,060	3,050	
Priddy Vista	84	85	56	47		123	47	KPUD
Rockaway Beach Water	72	88	80	34		80	132	
Rocky Point Water District 12	717	1,000	N/A	N/A		import	0	
Sandy Hook Park Community Club	104	189	80	160		57	61	NWW
Seabeck	243	300	3,000	3,000		600	580	KPUD
Silverdale Water Dist. 16	8,688	Unspec	4,664.9	4,835	0.78	6,730	5,184	
South Bainbridge	1,530	Unspec	885.3	1,064.4	0.11	625	899	KPUD
Strattonwood	80	99	40.5	160		160	37	WW
Strawberry Hill	94	94	83.7	275		125	80	KPUD
Sunnyslope	383	455	1,456.6	200		270	375	
Suquamish	1,548	2,965	960	1,750		1,240	816	KPUD
Surfrest Park Water Company	48	54	47	105		110	50	KPUD
Tahuyeh Lake Community Club	224	259	2,000	334		196	106	NWW
Viewside Community	49	64	36	125		175	40	KPUD
Vinland	1,374	10,000	860	933		1,530	1,150	KPUD
West Kitsap	699	740	991.6	924		521	278	KPUD
West Sound Utility District #1	8,710	Unspec	-	-		-	4,100	
Wicks Lake Ranches	228	355	142	300		225	56	WW
Total	88,741	11,282	57,680.8	56,239	42.94	63,216	84,898	

Notes: All KPUD owned systems were updated March 2023 by KPUD. All other data is from Department of Health Drinking Water Sentry Database March 2023 System Operator or Owner: AU – Aquarius Utilities; COB – City of Bremerton; COBI – City of Bainbridge Island; COPO – City of Port Orchard, KPUD – Kitsap Public Utility District; NWW – Northwest Water; PLC – Peninsula Light; WW – Washington Water Service

- Qa = Annual Quantity; Qi = Instantaneous Quantity; afy = Acre Feet per Year; gpm = gallons per minute; cfs = cubic feet per second.
- Unspec – Unspecified by DOH – System sets capacity; NA = Not Applicable

Totals are shown for systems with multiple water rights, not by water system name. This table may not present water rights information pertaining to those systems for which the owner’s name differs from the water system name.

### **Level of Service Analysis**

Table 2-8 Planning Population 2022-2042 from the 2022 WSUD Water Service Plan, shows the projected water demands for the county in 2022, 2032 and 2042.

Official population growth projections from the County Comprehensive Plan, which in turn are based on the Puget Sound Regional Council (PSRC) VISION 2040 regional plan, that are relevant to the areas served by the WSUD include:

- City of Port Orchard – 1.99 percent
- Port Orchard UGA – 1.34 percent
- Rural Kitsap County – 0.50 percent.

WSUD utilized a population growth rate of 1.75 percent compounded annually from 2022 through 2042, applied to single family residential and multi-family demands. This accounts for the realistic range in growth rates between the areas served by WSUD while remaining conservative overall. Based on the above discussion, the planning populations for the

existing WSUD boundaries are presented in Table 2-8 of the WSUD 2022 Water System Plan Update. Also here for reference.

**Table 2-8. Planning Population, 2022 – 2042**

Year	Population	Year	Population
2022	20,303	2033	24,572
2023	20,658	2034	25,002
2024	21,019	2035	25,439
2025	21,387	2036	25,884
2026	21,762	2037	26,337
2027	22,142	2038	26,798
2028	22,530	2039	27,267
2029	22,924	2040	27,744
2030	23,325	2041	28,230
2031	23,734	2042	28,724
2032	24,149		

**Exhibit 4-107 Water Demand Projections (in mgd) from the CWSP**

Year	Average Day Demand	Maximum Day Demand
<b>2022</b>	1.81	3.74
<b>2032</b>	2.21	4.57
<b>2042</b>	2.55	5.27

*Source: WSUD 2022 Water System Plan Update*

**Capital Facilities and Funding**

**Exhibit 4-108 WSUD Water Capital Project Costs (All numbers are in 2022 \$1000s)**

Category/Project Description	Total Cost 2022-2032	Total Cost 2033-2042	Total Cost
<b>Category I: Capacity Increasing Projects</b>			
Purchase Property, Drill New Well and Construct New South Reservoir		5,161	5,161
Intertie with Manchester Water at Beach Dr. and Watauga intersection	159		159



Category/Project Description	Total Cost 2022-2032	Total Cost 2033-2042	Total Cost
Install 2,500' of 12-inch ductile iron water main on Bethel from Salmonberry to Sedgewick	1,084		1,084
Install 1,300' of 12" ductile water main on Bethel Ave. from Salmonberry to Walmart	598		598
Install 2,600' of 12" ductile water main on Jackson from Salmonberry to Sedgewick	1196		1196
Install 750' of 8" water main on Downing Pl from Higgins Rd to end of Downing Pl	307		307
<b>Category II: Capital Replacement, Maintenance and Operations</b>			
Well 21 Pump, Motor install carry over from 2021	45		45
Install on-site generator at well #1&5	143		143
Well 22 Drop Pump 100'	145		145
Install Generator at well 22	87		87
Develop source well 23	1930		1930
Aquifer Yield Characterization	418		418
Install Generator at well 20	87		87
Well 11 Re-drilling	529		529
Port Orchard intertie - pump & check valve	80		80
Routine Maintenance Tank Cleaning (5 Storage Tanks)	650		650
Paint Int. (2001) & ext. (1991) of Salmonberry elevated, make safety imp, install cat protection	942		942
Repaint interior of Fircrest Standpipe (NW Corrosion recommendation)	548		548
Paint interior and exterior Salmonberry reservoir (2008)	473		473
Paint interior of Powell Reservoir and caulk roof seams	188		188

Category/Project Description	Total Cost 2022-2032	Total Cost 2033-2042	Total Cost
Paint Well 1 reservoir int. and ext. (2016)		89	89
Paint exterior of Fircrest standpipe (2016)		178	178
Paint exterior of Powell tank (2016)		142	142
Replace Fircrest elevated reservoir (75 Years)		3814	3814
Replace Salmonberry elevated reservoir (75 Years)		4229	4229
Powell Booster Station Upgrades	1583		1583
Replace Salmonberry and Well 21 pump house	341		341
Eisenhower Main Replacement	430		430
Replace Failing AC pipe on Harris From Lund to McKinley Pl w/ 10" Ductile	678		678
Replace 900' of 8" AC with 12" water main on Mile Hill Rd from Fircrest Dr. to Harrison Ave	494		494
Replace 500' of 2" PVC with 12" DI water main on Mile Hill Dr. from 4648 to Baby Doll Rd.		338	338
Install 4,000' of 8" Ductile Iron on Lincoln Ave. to Replace Cast Iron Pipe		2017	2017
Replace 1,000' of 4" AC with 8" water main on Russell Ave from Horstman Rd to Lovell St	398		398
Replace 1,100' of 4" AC with 8" water main on Orchard Ln from Horstman Rd to Gregory Ln	522		522
Replace AC Main on Horstman Rd from Prosperity Plat to Peru Ave		1852	1852
Replace 5,400' of 8" CI Pipe on Mitchell and Jefferson		3065	3065
Replace 5,000' cast iron main in area of Well 1 to Mile Hill Road and West to Ballfield	2746		2746

Category/Project Description	Total Cost 2022-2032	Total Cost 2033-2042	Total Cost
Install 3,750' of 8" Ductile Iron Pipe on Beck, Hoover, McKinley Pl to Replace Cast Iron Pipe		2467	2467
Replace 2700' 6" AC on Bethel from Lund to Salmonberry	1279		1279
Replace 1,300' of 6" AC with 8" water main on Colonial Ln from Salmonberry Rd to Berger Ln	636		636
Replace 1,400' 8" w/ 12" water main on Mile Hill Dr. from Baby Doll Rd to Saddle Club Rd	574		574
"Replace 200' of 4"" with 8"" water main on Bethel Rd from 2500 to 2530"	82		82
Sedgwick Main Relocation Project	2,200		2,200
Replace 3,200' of 6" PVC Pipe on Point Glover Lane Due to Frequent Joint Failure	1,392		1,392
Replace 5,300' of 8" PVC Pipe on Watauga Beach Dr. Due to Frequent Joint Failure	2,375		2,375
Beach Drive 16,000' AC Water Main Replacement Phase 1		8,311	8,311
Beach Drive 16,000' AC Water Main Replacement Phase 2		8,560	8,560
Install backflow assemblies private water mains	115		115
Fire Hydrant Replacement	352		352
Port Orchard Roundabout Project	275		275
South Park Main Relocate	110		110
Replace 530' of 4"AC w/ 8" Ductile on Retsil from Mile Hill	198		198
Replace 900' of 8" AC with 12" Ductile water main on Mile Hill Rd from Fircrest Dr. to Harrison Ave	452		452
Replace 432' of 6" AC W/8 " DI from Bethel to Crawford	162		162
Replace 2800' of 6" AC w/ 8" DI water main on Leighton. Loop to Beach DR	1,254		1254
INFORMATION SYSTEMS	20		20

Category/Project Description	Total Cost 2022-2032	Total Cost 2033-2042	Total Cost
SERVICES (2.0%/Year Cost Escalation)	5,184		5184
<b>Total</b>	33,461	40,223	73,684

Source: WSUD 2022 Water System Plan Update

**Exhibit 4-109 WSUD Water Capital Project Revenues (All numbers are in 2024 \$1000s)**

Revenue Source	Total Revenue Years 2023-2032	Revenue Years 2033-2042
<b>Cash Funding</b>	13,162	TBD
<b>Revenue Bonds</b>	1,1500	TBD
<b>General Facility Charges</b>	4,438	TBD
<b>Total</b>	29,100	TBD

Source: WSUD 2022 Water System Plan Update