

DRAFT

2026 CAPITAL PLAN

Prepared in Support of the 2027-2028 Capital Budget with a Planning Period Through 2046

Discovery Clean Water Alliance

Core Values

1. *Ensure reliable, predictable service for all customers*
2. *Manage resources responsibly, efficiently, and equitably*
3. *Protect public and environmental health*
4. *Optimize use of existing facilities*
5. *Be financially transparent*
6. *Use new technologies to achieve system efficiencies and environmental protection*
7. *Provide a fair, positive, and secure work environment for utility employees*
8. *Ensure capacity to support regional land use and economic development decisions*
9. *Invest in improvements that create system-wide benefits*
10. *Make business decisions collaboratively with all partners*

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SECTION 1

Alliance Capital Plan Introduction

1.1 Purpose and Scope of Capital Plan

The Discovery Clean Water Alliance (Alliance) is a regional wastewater transmission and treatment utility providing services to its four Member agencies in Clark County, Washington. Member agencies include the City of Battle Ground, Clark County (County), the City of Ridgefield, and the Clark Regional Wastewater District (District). The Alliance was legally formed in 2013 after a period of study and evaluation to determine the most appropriate framework for delivery of regional wastewater services.

The Alliance's Interlocal Formation Agreement (IFA) states that the purpose of this entity is to "provide cooperative municipal utility services to its Members in order to assist those Members with a cost-effective mechanism for supporting regional economic development in an environmentally-sound manner, to help manage Member service costs in a financially-transparent manner, to provide reliable and predictable service, and to provide a framework that encourages the participation of all Clark County municipal utilities that protects both regional and jurisdictional autonomy." A more thorough description of the history and structure of the Alliance is found in Appendix A.

The Capital Plan presents the strategy for the Alliance to meet its infrastructure obligations to its Member agencies for regional wastewater transmission and treatment services. These services are delivered by maintaining existing Regional Assets and through construction of new Regional Assets. In terms of existing Regional Assets, the Capital Plan will depict the repair and replacement (asset management) work needed to keep the assets in good working order. With respect to new Regional Assets, the Capital Plan will establish the infrastructure investments needed to address system capacity, new regulatory obligations, or new level-of-service commitments.

The Capital Plan will present all known infrastructure project needs for the Alliance. These projects will be presented for both near-term and long-term. The specific definition of the term **Capital Plan** from the IFA is provided below, along with other relevant IFA definitions pertaining to capital planning work.

Definitions:

Alliance Operations Date – means the date on which the Board has determined that (1) Regional Assets have been transferred to or for the benefit of the Alliance, (2) outstanding wastewater obligations have been retired, defeased, or transferred as necessary, (3) the Alliance is undertaking responsibility for providing service under this Agreement, (4) the Members receiving service from the Alliance become responsible for paying Regional Service Charges. The Alliance Operations Date is January 1, 2015.

Allocated Capacity –The Maximum Monthly Flow of wastewater that a Member may discharge into the Regional Assets, as described in Exhibit B of the IFA and as supplemented or adjusted in a Capital Plan.

Bonds –Bonds, notes or other evidences of indebtedness issued by the Alliance or by another entity (e.g., by a Member) on behalf of the Alliance.

Capital Plan – One or more long-range capital improvement plans for the addition, replacement, or improvement of Regional Assets, including an identification of Regional Assets and the allocation of transmission and treatment capacity as they may be supplemented or adjusted from the initial Regional Assets and allocations described in Exhibit B of the IFA.

Capital Budget – One or more capital budgets adopted in consistence with Section VI.A. of the IFA: A periodic Capital Budget will be prepared by Alliance staff or consultants (or, if there is a separate Administrative Lead, then by the staff of or consultants selected by that entity). Similarly, prior to Board action, comprehensive Capital Plans, including a renewal and replacement fund mechanism, will be periodically prepared by Alliance staff (or, if there is an Administrative Lead, by the staff of that entity in cooperation with staff of any Operator).

Dual Majority Vote – A Board vote requiring the affirmative vote of both (1) the Directors representing more than 50% of the Members, and (2) the Directors representing the Members comprising more than 50% of the Treatment Facilities Allocated Capacity for the year in which the vote is taken, as set forth in the then-current Capital Plan.

Dual Super-Majority Vote – Except as provided in section IV.F.3 of the IFA, a Board vote requiring the affirmative vote of both (1) the Directors representing more than 60% of the Members, and (2) the Directors representing the Members comprising more than 60% of the Treatment Facilities Allocated Capacity for the year in which the vote is taken, as set forth in the then-current Capital Plan.

MGD – Million gallons per day, referring to a rate of flow.

Maximum Monthly Flow or MMF – A measure of flow expressed in MGDs and representing the highest average monthly flow, taking into account the total flow of wastewater discharged into the Regional Assets, measured in millions of gallons for any calendar month divided by the total number of days in that month.

Regional Assets – The assets listed in Exhibit B of the IFA, and such additional assets as the Board may later determine to be Regional Assets under Section VII.B. of the IFA.

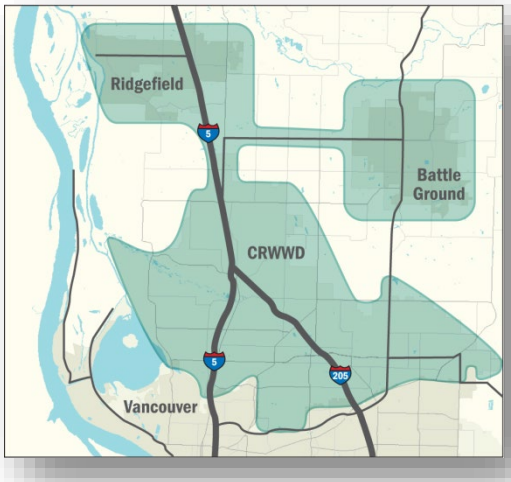
Regional Service Charges – Charges for service imposed by the Alliance under Section VI.B of the IFA.

Transmission Infrastructure – Transmission lines, force mains, interceptors, pump stations, and other facilities required to transfer wastewater from a Member's collection system to a Treatment Facility.

Treatment Facility or Facilities – Treatment plants, outfalls and other facilities required to treat wastewater.

1.2 Alliance Core Values/Capital Planning Guiding Principles

As a regional wastewater transmission and treatment utility serving nearly 150,000 citizens today and with the potential to serve a population of 250,000 or more over time, it is critical that the Alliance decision making is aligned with the needs and expectations of the community it serves. In order to provide an appropriate context for Alliance decision making, community-supported core values were determined during the regional business planning process in 2010 through a statistically valid telephone survey of residents in the Alliance service area.



More recently, the Alliance conducted a new survey in June 2025 to confirm these core values and verify the current priorities of its customers. The results of the survey indicated that the Alliance core values are still relevant. Table 1.1 summarizes the customer's ranked priorities of what should guide the management of wastewater services.

Table 1.1 – Alliance Customer 2025 Priorities

2025 Priorities	% Most Important
Keeping monthly bills affordable	45%
Providing reliable service without interruption or backups	24%
Reducing pollution in local rivers, lakes, and groundwater	20%
Recycling wastewater and recovering useful materials (like fertilizer)	5%
Building capacity for future growth in our community today, when it is more affordable	3%
Making it easier to get help and information about your service	2%
Converting homes from septic tanks to public sewer connection	3%

The Alliance core values and customer priorities are applied to the Capital Plan work through the following capital planning guiding principles:

Table 1.2 – Alliance Capital Planning Guiding Principles

Guiding Principles
1. Long-range financial planning to support the capital programs will be provided to the Members for incorporation into local (retail) rate and charge planning.
2. Existing Regional Assets will be maintained in good operating condition through an intentional asset management program.
3. Life cycle cost comparisons, considering both capital and operating costs, will be utilized in alternative comparisons for significant projects. Alternatives will also consider non-cost criteria topics such as regulatory compatibility, public and environmental health outcomes, regional (system-wide) benefits and operational characteristics.
4. New Regional Assets will be planned and constructed ahead of demand to provide adequate capacity for growth in Member service areas, to comply with emerging regulatory requirements and/or to deliver new levels of service where appropriate.
5. Decisions related to the Capital Plan will be fully vetted with the Standing Committees, the Board of Directors, and affected stakeholders.

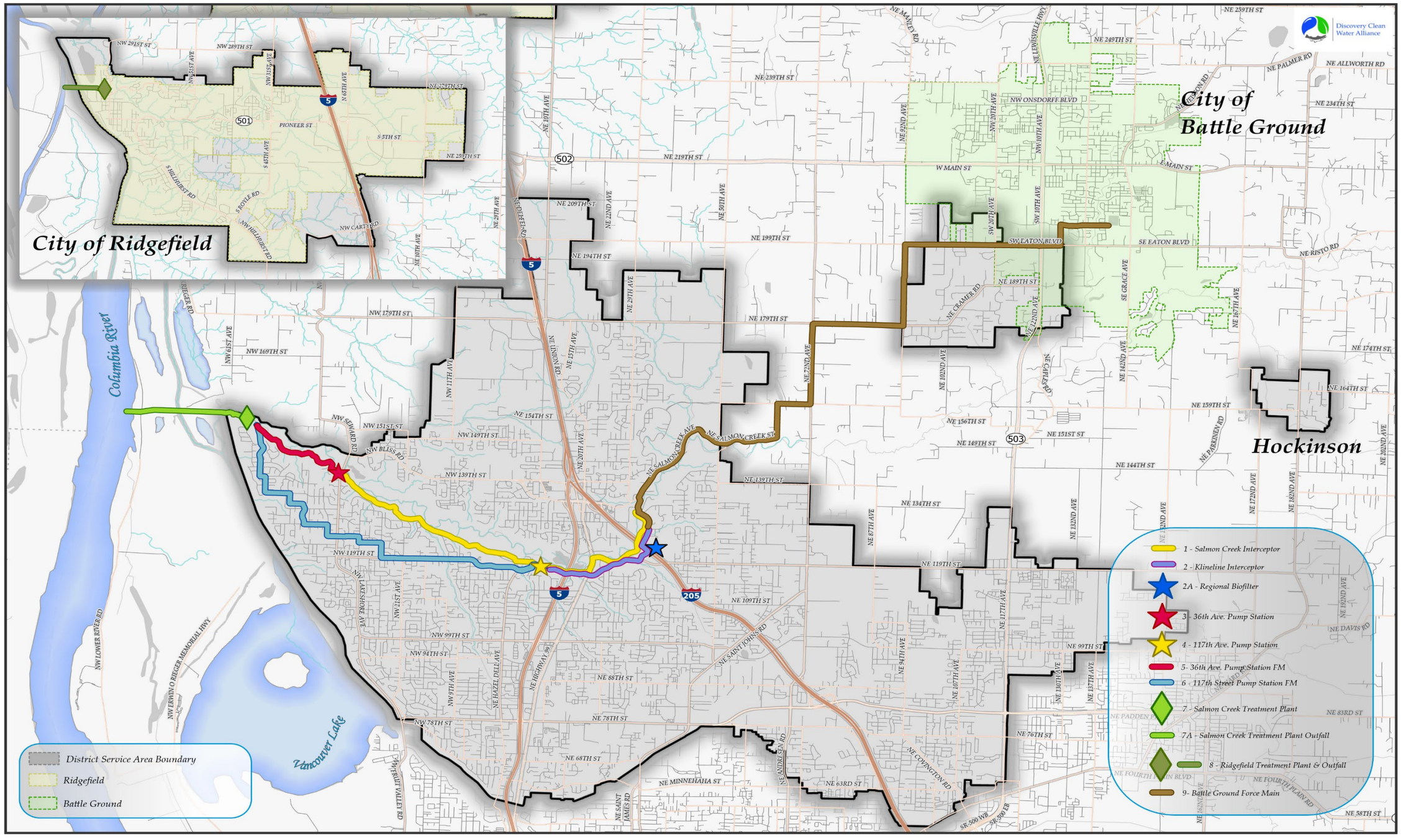
1.3 Alliance Regional Assets

Based on the 2025 Financial Statements, the Alliance owns, operates, and manages 11 Regional Assets with an estimated book value (historical cost less depreciation) of approximately $170 million. The Regional Assets are depicted in the following Regional Asset Descriptions (Table 1.3) and Regional Asset Overview Map (Figure 1.1).

Table 1.3 – Alliance Regional Asset Descriptions

Regional Asset Name	Regional Asset Description
1. Salmon Creek Interceptor	4.6-mile-long gravity pipeline located on the south side of the Salmon Creek drainage. The interceptor collects and conveys wastewater from partner agencies to regional pump stations. The pipeline was constructed in segments from the mid to late 1970's (21-42-inch diameter pipe routed from Betts Bridge to 36 Ave).
2. Klineline Interceptor	1.8-mile-long gravity pipeline located parallel to the Salmon Creek Interceptor. The pipeline was constructed in segments from 2002 to 2006 (48-inch diameter pipe routed from Salmon Creek Ave & NE 127 to 117 St PS).
2A. Regional Biofilter - Klineline Interceptor	Regional biofilter directly adjacent to the property located at 12401 NE Salmon Creek Avenue in Vancouver, WA. The biofilter was regionally sized to manage odors and control corrosion associated with the discharge of the Battle Ground FM and St. Johns Interceptor into the Klineline Interceptor. The biofilter was constructed in 2017-2018.
3. 36 Avenue Pump Station (PS)	Raw sewage PS located at 14014 NW 36 Ave in Vancouver, WA. The station pumps wastewater from the Salmon Creek interceptor to SCTP. The pump station was constructed in mid-1970's and remodeled in 1994 and 2005.
4. 117 Street PS (aka Klineline PS)	Raw sewage PS located at 1110 NE 117 St in Vancouver, WA. The station pumps wastewater from Salmon Creek and Klineline interceptors to SCTP. The pump station was constructed in 2008.
5. 36 Ave PS FM	24-inch diameter FM routed from 36 Ave PS to SCTP. The FM runs approximately 1.4 miles along the south side of the Salmon Creek and discharges to SCTP. The pipeline was constructed in mid-1970's.
6. 117 Street PS FM	Dual 30-inch diameter FMs routed from 117 St PS to SCTP. The FM runs approximately 4.9 miles along public rights-of-way to SCTP. The pipeline was constructed in segments from 2004 to 2008.
7. Salmon Creek Treatment Plant (SCTP)	Secondary treatment plant originally constructed in the mid 1970's, with five major expansion phases. The plant is located at 15100 NW McCann Rd, in Vancouver, WA.
7A. SCTP Columbia River Outfall & Effluent Pipeline	The plant outfall is a 48-inch diameter pipeline, terminating in the Columbia River between river mile 95 and 96. The effluent pipeline system consists of 30-inch and 48-inch pipelines routed from SCTP to the Columbia River outfall.
8. Ridgefield Treatment Plant (RTP) & Outfall	Secondary treatment plant originally constructed in 1959, with several upgrades since then. The plant is located on West Cook St in Ridgefield, WA. The plant outfall is a 10-inch diameter pipeline routed west of the plant 0.2 miles, terminating in Lake River.
9. Battle Ground Force Main (FM) (including odor control system)	9-mile long 16-inch diameter FM (with bioxide chemical dosing/injection facility) routed southwesterly from Battle Ground PS to the Klineline interceptor at Salmon Creek Ave. The pipeline was constructed in the early 1990's.

Figure 1.1 – Regional Asset Overview Map



Discovery Clean Water Alliance
Regional Assets

Capacity is allocated to two of the Alliance Members that own and operate wastewater collection systems and therefore contribute flow to the Alliance Regional Assets. These capacity allocations are the basis upon which Alliance costs are determined as further explained in Section A.1 of Appendix A. The current Capacity Allocation for each Regional Asset is shown in Table 1.4, which has been updated to include the Phase 5 Expansion program investments, now recognized by Ecology.

Table 1.4 – Regional Assets and Current Capacity Allocations

System Name	No.	Regional Asset Name	Regional Asset Description	Capacity Allocations (MGD, MMF) Existing Allocated Capacity		
				BG	CRWWD	Total
Salmon Creek Wastewater Management System (SCWMS)		**Interceptor System**		**10.10**	**28.08**	**38.18**
	1	Salmon Creek Interceptor	4.6 mile long gravity pipeline located on the south side of the Salmon Creek drainage. The interceptor collects and conveys wastewater from partner agencies to regional pump stations. The pipeline was constructed in segments from the mid to late 1970's (21-42-inch diameter pipe routed from Betts Bridge to 36 Ave).			
	2	Klineline Interceptor	1.8 mile long gravity pipeline located parallel to the Salmon Creek Interceptor. The pipeline was constructed in segments from 2002 to 2006 (48-inch diameter pipe routed from Salmon Creek Ave & NE 127 St to 117 St PS).			
	2A	Regional Biofilter - Klineline Interceptor	Regional biofilter providing odor and control corrosion associated with the combined discharges of the St. John's Interceptor and Battle Ground Force Main. The biofilter utilized a two-cell engineered media configuration to treat the air phase odors prior to discharge. The facility capacity is expressed in CFM because the system is treating air flows rather than wastewater flows.	**1780***	**1620***	**3400***
		Pump Station (PS) System		**4.47**	**13.57**	**18.04**
	3	36 Avenue PS	Raw sewage PS located at 14014 NW 36 Ave in Vancouver, WA. The station pumps wastewater from the Salmon Creek interceptor to SCTP. The pump station was constructed in mid 1970's and remodeled in 1994 and 2005.			
	4	117 Street PS (aka Klineline PS)	Raw sewage PS located at 1110 NE 117 St in Vancouver, WA. The station pumps wastewater from Salmon Creek and Klineline interceptors to SCTP. The pump station was constructed in 2008.			
		Force Mains (FM) System		**6.30**	**20.06**	**26.36**
	5	36 Avenue PS FM	24-inch diameter FM routed from 36 Ave PS to SCTP. The FM runs approximately 1.4 miles along the south side of the Salmon Creek and discharges to SCTP. The pipeline was constructed in mid 1970's.			
	6	117 Street PS FM	Dual 30-inch diameter FMs routed from 117 St PS to SCTP. The FM runs approximately 4.9 miles along public rights-of-way to the SCTP. The pipeline was constructed in segments from 2004 to 2008.			
		Salmon Creek Treatment Plant & Outfall				
	7	Salmon Creek Treatment Plant (SCTP)	Secondary treatment plant originally constructed in the mid 1970s, with five major expansion phases. The plant is located at 15100 NW McCann Rd, in Vancouver, WA.	**3.96**	**13.54**	**17.50**
	7a	SCTP Columbia River Outfall & Effluent Pipeline	The plant outfall is a 48-inch diameter pipeline, terminating in the Columbia River between river mile 95 and 96. The effluent pipeline system consists of 30-inch and 48-inch pipelines routed from SCTP to the Columbia River outfall.	**10.10**	**28.08**	**38.18**
Ridgefield Treatment System		**Ridgefield Treatment Plant (RTP) & Outfall**		**0.00**	**0.70**	**0.70**
	8		Secondary treatment plant originally constructed in 1959 with several upgrades since then. The plant is located on West Cook St in Ridgefield, WA. The plant outfall is an 8-inch diameter pipeline routed west of the plant 0.2 miles, terminating in Lake River.			
Battle Ground Force Main System		**Battle Ground FM**		**3.44**	**0.96**	**4.40**
	9	(Including odor control system for FM)	9 mile long 16-inch diameter FM with bioxide chemical injection facility routed southwesterly from Battle Ground PS to Klineline interceptor at Salmon Creek Ave. The pipeline was constructed in 1993.			

*** Values are in CFM (air flow rate in cubic feet per minute) for this Regional Asset**

1.4 Capital Plan Introduction

The Alliance is an owner and operator of Regional Assets providing wastewater transmission and treatment services to its Members. As such, one of the most important business functions of the Alliance is to have a well-developed capital program for the management of its assets. This Capital Plan presents the Regional Asset Management Program for the Alliance, including the work required to repair or replace existing assets and to construct new assets to meet capacity, regulatory, or level-of-service requirements.

This Capital Plan contains four sections that address the requirements outlined in its IFA definition (see Section 1.1):

- **One or More Long-Range Capital Improvement Plans.** As noted in Section 1.5, the Alliance has formally adopted the existing long-range capital plans of its Members. These plans have been updated through the regional study process and have been reviewed and approved by the Department of Ecology. The existing Member agency plans have been formally transferred to the Alliance through the asset transfer agreement process.
- **Replacement or Improvement of Regional Assets.** In Section 2, the Alliance presents its plan for replacement or improvement of the existing Regional Assets. These plans for existing assets are often called "repair and replacement" or "asset management" programs. These terms are used interchangeably in this document.
- **Addition of Regional Assets.** In Section 3.3, the Alliance presents its plan for addition or construction of new Regional Assets. The need for new Regional Assets is typically driven by the need to increase system capacity for growth in the service area, the requirement to address new regulatory obligations, or the policy decision to provide new level-of-service commitments.
- **Allocation of Transmission and Treatment Capacity.** In Section 3.2, the Alliance will address any changes to Allocated Capacity among its Members. Changes in capacity can result from agreements to transfer existing capacity allocations among Members or from new capacity allocations created through the construction of new Regional Assets.

The Capital Plan will depict the programs for existing and new Regional Assets by presenting near-term needs (two-year and six-year projects) as well as long-term needs (20-year projects). Individual Project Profiles for all projects are presented in the following appendices: Appendix C (Existing Regional Assets – Repair and Replacement Program Project Profiles) and Appendix D (New Regional Assets – Capital Improvement Program Project Profiles).

Capital Plan Project and Project Numbering. Per the Interlocal Formation Agreement and consistent with the Operator and Administrative Lead agreements, this Capital Plan presents all capital project work associated with the Administrative Lead role, informing the Capital Budget. Please note that some

capital project work is also budgeted separately as part of the Operator responsibilities, and that work is included in the Operating Budget.

A project numbering convention has been established with the following three components: (1) Regional Asset number, (2) anticipated bid year and (3) sequential number. For example, project RA03–19–1 would be for a project for Regional Asset No. 3 (the 36th Avenue Pump Station) where the project was scheduled to bid in 2019, and this is the first project for that asset in that bid year.

Cost Escalation and Estimate Classification. The Capital Plan provides for all the projects defined over time, and the corresponding cost estimates have been adjusted to 2026 dollars. This adjustment process historically involved the application of the Engineering News Record (ENR) Construction Cost Index from Seattle. However, this index value for 2025 dropped 4% compared to its 2024 index. It was determined that the single index may not fully represent capital costs related to construction of wastewater treatment and conveyance assets. Instead, staff derived a "blend" of widely used indices as an alternative escalation method to bring cost estimates from past years to 2026 dollars. The indices included:

- ENR Construction Cost Index (Seattle)
- Mortenson Construction Cost Index (Portland)
- Mortenson Construction Cost Index (Seattle)
- Turner Building Cost Index
- Bureau of Reclamation Cost Trends (Pumping Plants)
- Construction Analytics Cost Index

Staff calculated the average annual values of these indices and applied those results as annual escalated rates to bring cost estimates from previous years to 2025 dollars. A final escalation factor of 4% was applied to each estimate to bring values up to 2026 dollars. This percentage represents the average annual increase over a 20-year period for all indices used in this "blend" method.

A separate process to escalate the project costs from this baseline to the estimated bid year is determined in the 2027-28 Capital Budget (a separate document).

As specific capital projects are developed from a conceptual level through preliminary design and ultimately to bid-ready plans and specifications, the level of definition of the projects increases throughout the process. It is critical to understand the probable variability of the estimates and to carry appropriate project contingencies. The Alliance approach is summarized in Table 1.4, adapted in part from information published through Association for the Advancement of Cost Engineering (AACE) International.

Table 1.5 – Alliance Cost Estimate Classification System

Estimate Classification	Project Design Definition (% Complete)	Typical Purpose/ End Usage	Expected Accuracy Range (L=Low, H=High)	Contingency Level Embedded in Cost Estimate
Class 5	0-2%	Concept Screening	L: -50% H: +100%	40-50%
Class 4	1-15%	Study or Feasibility Review	L: -30% H: +50%	30-40%
Class 3	10-40%	Budget Authorization	L: -20% H: +30%	20-30%
Class 2	30-70%	Budget Control	L: -15% H: +20%	10-20%
Class 1	65-100%	Final Estimate/ Bid Review	L: -10% H: +15%	0-10%

1.5 Member Agency Planning Document Incorporation by Reference

Through the initial adoption of the Capital Plan in 2014, the Alliance also formally adopted the Member agency planning documents listed in Table 1.5. This suite of documents represents the formal planning basis for the Alliance Regional Assets until such time the Alliance prepares an updated and integrated planning document for the Regional Assets.

Table 1.6 – Member Agency Planning Documents Adopted by Alliance

Regional Assets (RA)	Planning Document	Ecology Approval Date	Portion of Plan Adopted by Alliance
Salmon Creek Wastewater Management System (SCWMS), RA 1-7	*Salmon Creek Wastewater Management System Wastewater Facilities Plan / General Sewer Plan Amendment, CH2M HILL, August 2013*	September 4, 2013	Entire plan
	Salmon Creek Wastewater Management System Wastewater Facilities Plan / General Sewer Plan, CH2M HILL, July 2004	March 10, 2005	Entire plan
Ridgefield Treatment Plant and Outfall (RTPO), RA 8	*City of Ridgefield General Sewer Plan, Gray & Osborne, March 2013*	June 18, 2013	Relevant portion of plan for RTPO
	City of Ridgefield General Sewer and Wastewater Facility Plan, Gray & Osborne, December 2007	October 31, 2008	Relevant portion of plan for RTPO
Battle Ground Force Main (BGFM), RA 9	*City of Battle Ground General Sewer Plan, Wallis Engineering, March 2011.*	September 29, 2011	Relevant portion of plan for BGFM

SECTION 2

Existing Regional Assets

2.1 Repair and Replacement (R&R) Program Development

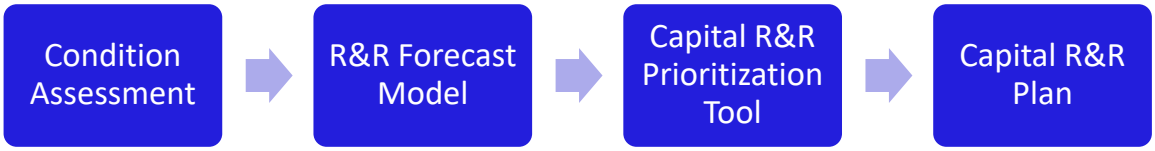
This section of the Capital Plan identifies the infrastructure investments needed to repair and replace existing assets required to meet the Alliance commitments over time.

The initial Alliance Capital Plan (adopted in 2014) and the updated 2016 plan incorporated the existing condition assessment reports and asset management programs from the Member agencies involved in the operation of the Regional Assets. That information informed the prioritization of several initial repair and replacement projects and was based on a limited review of available information for the Regional Assets.

Working to develop a more comprehensive assessment on an incremental basis, the subsequent Capital Plans incorporated a more thorough and systematic review of major systems within the Regional Assets while still relying on subjective condition data provided by operations and maintenance staff. This plan embraces the Alliance Asset Management Policy (see Appendix B) and represents a significant step forward in terms of the number of assets evaluated and objective condition assessments as the Alliance progresses toward the ultimate goal of establishing a fully sustaining asset management program for all Regional Assets.

Capital Plan – R&R Project Prioritization Process. In 2023 and 2025, the Alliance completed an effort to further refine its process for identifying and prioritizing R&R capital projects. The process started with a condition assessment of mechanical and electrical assets within the Salmon Creek Treatment Plant (SCTP) and the two regional pumping stations. Based on this information and additional asset data, an R&R Forecast Model was developed. This model aims to identify anticipated funding levels for R&R projects over a 20-year period. The identified projects were then prioritized using the Capital R&R Prioritization Tool. See Figure 2.1 below for a process overview.

Figure 2.1 – Repair and Replacement Project Prioritization Process Overview



R&R Forecast Model – Condition Assessment, Risk Profile, and Model Inputs. A condition assessment was completed for mechanical and electrical equipment at SCTP and both regional pump stations. Consequence of failure scores were updated for each process area within the plant and pump stations. Likelihood of failure was developed based on results from condition assessment on an asset-by-asset basis. From this information, a risk profile was created by process area for SCTP and both regional pump stations. The risk profile was utilized, along with the R&R model results, to drive selection of projects to be used in the prioritization process.

The R&R Forecast Model included inputs by individual assets for condition score, life cycle, replacement cost, preventative and corrective maintenance, and major repair intervals and costs. These inputs were developed in a collaborative process with staff based on observed maintenance, recent itemized construction costs, and industry-standard assumptions for costs and lifespan, such as RSMeans and American Water Works Association Benchmark data. Replacement and renewal intervals were identified within the 20-year planning window for major individual assets, combinations of assets by process areas, and for each facility. An estimated range of R&R costs was used to forecast the overall funding demand, with specific project alignment identified for the first ten years.

In addition to the detailed condition assessments listed above, the following assets were reviewed for potential R&R project needs:

- SCTP transformers and power supply systems
- Buildings and building systems at treatment plants and pump stations
- Ridgefield Treatment Plant (RTP) (maintenance data & visual observation)
- Lower Salmon Creek Interceptor (CCTV inspection)
- Upper Salmon Creek Interceptor (CCTV inspection)
- Klineline Interceptor (CCTV inspection)
- 117th Street Pump Station Force Main (maintenance data & visual observation)
- 36th Avenue Pump Station Force Mains (maintenance data & visual observation)
- Regional Biofilter (visual observation)

The next Capital Plan update (anticipated for 2028) will incorporate detailed condition data for the remaining assets at the two treatment plants and pumping stations (currently at approximately 950 assets and expected to expand to as much as 2,000 assets). The Alliance also plans to execute thorough assessments of assets that are typically completed every four to five years, including the SCTP Anaerobic Digesters and the Building Systems .

Capital R&R Prioritization Tool Overview. The results of the R&R Forecast Model were used to identify and bundle asset replacement recommendations into project recommendations, with the greatest emphasis in the first ten years. Projects were identified based on the risk profile of assets in the Forecast Model as described above. The resulting projects, as well as previously identified projects, were prioritized using the Capital R&R Project Prioritization Tool.

The Alliance applied its enhanced Capital R&R Project Prioritization Tool from 2024 for this Capital Plan. This tool uses a Multi-Objective Decision Analysis (MODA) approach to determine priorities for the R&R Program. MODA is a quantitative technique for making decisions that involve multiple financial, environmental, and social objectives. It is used as the basis for project prioritization in many industries. MODA-based prioritization proceeds through a series of defined steps as follows:

1. Frame the evaluation, including boundaries, goal/purpose, critical success factors, stakeholders, and issues/concerns.
2. Establish prioritization criteria.
3. Identify and define projects under consideration.
4. Develop performance measures and measurement scales that define how well each project meets each criterion.
5. Establish relative value weights that quantify the relative importance of each criterion in this context.
6. Score each alternative for each objective, normalize the scores, and calculate value scores for each alternative.
7. Explore trade-offs, any categorization of results, sensitivity analysis, and establish a ranked list of projects.
8. After prioritization, optimize to develop a Capital Program that considers factors such as budget scenarios, project timing, and dependencies, and then finalize.

This 'decision analysis' approach to project prioritization was used to objectively evaluate eight R&R capital projects against nine identified criteria. For each prioritization criterion, performance measures were developed to assess a project's contribution to meeting the identified goal.

Prioritization Criteria and Weights. The Alliance formed an initial set of prioritization criteria, definitions, and weights based on the Alliance's core values. It subsequently tested these criteria and performance measures for this prioritization framework by ground-truthing results using feedback from SCTP operators and maintenance staff. Table 2.1 shows the product of this verification process by displaying the nine final prioritization criteria, along with their relative weights, and their performance metric descriptions.

Table 2.1 – Summary of Prioritization Criteria, Weights, and Performance Metrics

Prioritization Criteria and Sub-Criteria	Weight	Performance Metric Description
Safety and Security		
Employee safety	19	The extent to which a project improves or addresses health, safety, and security issues associated with the employees of the Operator of the Regional Asset. Improves/reduces required confined space entry, exposure to rotating equipment, gases, chemicals, electrical generating systems, exposure to open water, falls, or other known risks.
Public Health and Safety	15	The extent to which a project improves or addresses health, safety, and security issues affecting the public and customers of the Alliance and its Members. Improves water quality excursions, biosolids quality excursions, chemical usage, or other known public health and safety risks.
Comply with Regulation and Alliance Commitments		
Ability to meet current and future regulatory requirements	12	The extent to which a project addresses requirements in current and future legal or regulatory commitments.
Maintains or enhances service reliability or resiliency	11	The extent to which a project improves equipment downtime, automating manual tasks, or other similar improvements that improve reliability or resiliency.
Addresses obsolete or failed assets	11	The extent to which a project addresses equipment obsolescence or failed assets, restores function of systems or subsystems, or replaces equipment currently beyond expected life.
Promotes Efficiency		
Optimize use of existing facilities or extend useful life of assets	8	The extent to which a project extends useful life of an asset or increases the efficiency or utility of an asset or facility.
Use of new technologies to achieve system efficiencies	8	The extent to which a project incorporates new technologies that have demonstrated system efficiencies.
Operations efficiency	8	The extent to which a project improves operational efficiency, reducing staff time or resource needs (i.e., chemical, energy, etc.).
Financial	8	The extent to which the project leverages outside funding (grants or loans) or has a demonstrated return on investment.

Prioritization Results. Based on the decision criteria, criteria weights, and performance measure scorings, the prioritization model produced the total benefit scores for all projects, as shown in Table 2.2. These results are arranged in the order of highest to lowest total benefit score.

Table 2.2 – R&R Improvement Projects Prioritization Results

Rank	Project Name	Prioritization Score (out of 100)
CO	SCTP Dewatering Equipment Replacement	Carryover
CO	SCTP UV System Replacement	Carryover
CO	SCTP Operations Center HVAC Replacement	Carryover
CO	SCTP Influent Flow Meter Replacements	Carryover
CO	SCTP Aeration Equipment Replacement (Blowers 1-4)	Carryover
CO	SCTP Groundwater Well #1 Replacement	Carryover
1	SCTP Solids Hopper	58.8
2	SCTP Potable Water Supply Replacement	58.6
3	SCTP Aeration Blower 5 Improvement	48.6
4	SCTP Influent Screen Replacement	39.8
5	SCTP Thickening Equipment Replacement	39.2
6	SCTP Grit System Replacement	37.6
7	RTP Secondary Clarifier Rehabilitation	33.0
8	SCTP Secondary Clarifier Rehabilitation	27.0
NS	Battle Ground Force Main / Eaton Road Relocation	Relocation
NS	SCADA Server Replacement	Program
NS	System-wide Instrumentation Replacement	Program
NS	System-wide Valving Replacement	Program
NS	System-wide VFD Replacement	Program
NS	SCTP Solids Vessel Inspection & Rehabilitation	Program
NS	System-wide HVAC R&R	Program
NS	Building Systems R&R Allowance	Program
NS	Process Systems R&R Allowance	Program

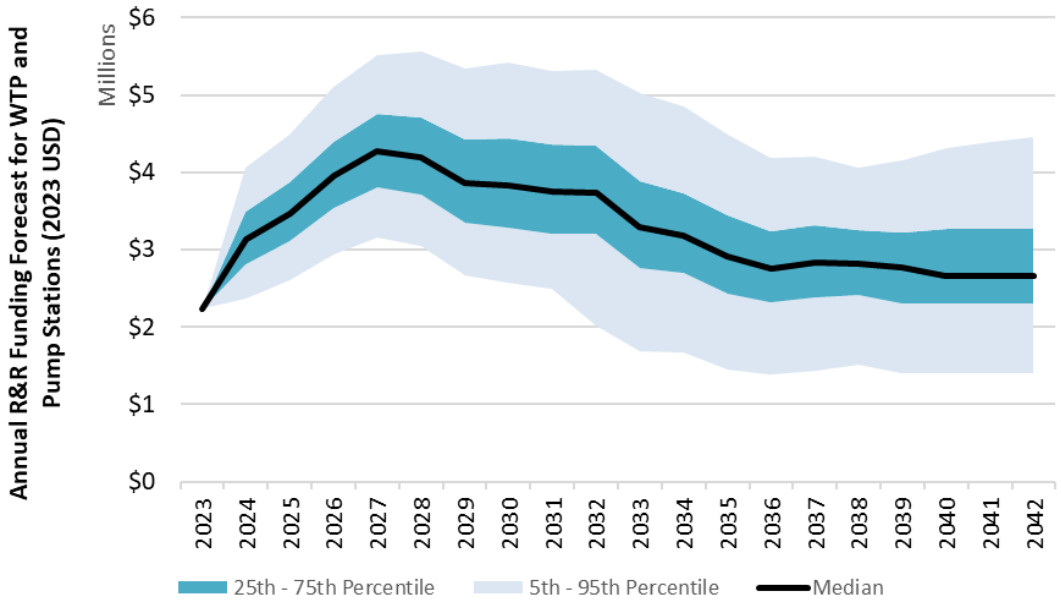
Three types of capital investments shown in Table 2.2 received no score ("NS"):

- Current projects that will continue into and end in the 2027-28 biennium are denoted by "Carryover" (or "CO") entries.
- Approximately 300 feet of the Battle Ground Force Main will be relocated as part of a larger public works project managed by the City of Battle Ground.
- The Alliance identified a series of programs that support the process systems and building systems for SCTP or system-wide operations.

Forecasted R&R Funding Demand. Variability and uncertainty are inherent in the assumptions necessary to forecast R&R funding needs. Following the 2023 condition assessments, these considerations were integrated using a probabilistic model, also known as a Monte Carlo simulation technique, which results in a likely range of funding needs rather than a single fixed estimate. Assets may last longer or shorter than the assumed useful life, and asset replacement costs may vary. This methodology provides the ability to incorporate uncertainty into the R&R funding demand forecast, as well as understand the variability in the potential future funding demands.

Figure 2.2 below shows the projected annual R&R funding demand in 2023 dollars as a median (represented by the black line) and a probabilistic range for the 25th to 75th percentile (dark blue) and 5th to 95th percentile (light blue). The probabilistic ranges result in a distribution that represents the likely value and amount of uncertainty in the future funding demand. The range of uncertainty increases over time, indicating more variability in future years. A sensitivity analysis was also performed to verify the model inputs and test the range of uncertainty.

Figure 2.2 – Probabilistic Annual R&R Funding Demand for Salmon Creek WWTP and Pump Stations



The R&R forecast model estimates that the cumulative funding demand needed for the SCTP and the pump stations is approximately $3.5 million per year for the first ten years and $2.9 million per year between 2033 and 2042. SCTP implemented several plant upgrades in the previous 20 years; the increased funding demand predicted in the first ten years of the forecast aligns with the typical mechanical and electrical asset life cycle ranges of 10-20 years. This is the first version of the model based on known data. As the database of assets and condition data grows, the analysis will become more accurate and reliable over time, resulting in either an increased or decreased funding demand or a reduction in uncertainty. After accumulating five years of additional condition assessments from this original analysis, an updated version of this forecast is planned in 2028.

The Alliance Board of Directors and the Standing Committees discussed these findings in the summer of 2024 during the development of their 2024 Capital Plan. Upon recommendation from the Standing Committees, the Board agreed that the long-term capital investment for the assets analyzed in Figure 2.2 should gradually increase to a target of $3,500,000 annually by 2043. Adding an annual investment of $1,100,000 for assets related to building systems R&R (e.g., rooftops) brought the overall R&R funding target to $4,600,000 in 2024 dollars. Assuming a 4% annual escalation of capital costs, this funding level in 2026 dollars is $4,900,000.

Project Programming. The programming effort starts with listing projects according to priority, then factoring in other considerations such as available funding, corresponding capital projects, staff workload, specific project design and permitting schedules, and forecasted R&R funding demand. The Standing Committees review and endorse the program prior to presentation to the Alliance Board of Directors.

A total of eight R&R projects were prioritized through the Capital R&R Prioritization Tool for inclusion in the Capital Plan, of which four are newly identified scopes of work, and the remaining projects were previously identified with updated scoring.

The Process Systems R&R Program covers efforts that require annual or cyclical (e.g., every five years) capital investments to replace aging or obsolete treatment and conveyance assets. Three categories of assets exist system-wide and are so numerous that they warrant annual investments: instrumentation, valving, and variable frequency drives (VFDs). In addition, as the key communication tool that allows operators to manage assets as a system to meet permit requirements, the SCADA system software, firmware, and hardware require upgrades every eight years to stay current with technology improvements. Finally, the SCTP Solids Vessel (e.g., Anaerobic Digesters) must be cleaned, inspected, and repaired every six years to provide the solids treatment necessary to meet biosolids regulations.

The Building Systems R&R Program is based on a detailed condition assessment of the buildings (not the process equipment). The assessment demonstrated an approximate $1 million per year need over the next 20 years to properly maintain building systems, including roofing, paint, doors, HVAC, flooring, fixtures, furniture, electrical systems, and other replacements that are required now and into the future to maintain the buildings in good working condition.

2.2 Capital Plan Summary – Project Funding for Existing Regional Assets

Project Costs. The R&R Program capital investments and funding Member cost responsibility are summarized in Table 2.3. Appendix C includes a Project Profile for each of these R&R projects, providing a comprehensive overview and describing the overall capital investments necessary to maintain the existing Regional Assets in good working order.

As noted previously, the proposed plan does not evaluate every asset or piece of equipment in the system. To account for those undefined needs and provide as complete a 20-year Capital Plan as

possible, Table 2.3 includes two annual program allowances: one for Process Systems and another for Building Systems.

Table 2.3 – Existing Regional Assets – Funding Member Cost Responsibility (all costs in 2026 dollars)

	R&R Project Name	Individual (I) or 20-yr Program (P)	Project Cost	Battle Ground Percentage Share	Clark Regional Percentage Share	Battle Ground Cost Allocation	Clark Regional Cost Allocation
CO	SCTP Dewatering Equipment Replacement	I	$9,000,000	22.6%	77.4%	$2,000,000	$7,000,000
CO	SCTP UV System Replacement	I	$7,200,000	17.2%	82.8%	$1,200,000	$6,000,000
CO	SCTP Operations Center HVAC Replacement	I	$2,000,000	22.6%	77.4%	$450,000	$1,550,000
CO	SCTP Influent Flow Meter Replacements	I	$1,300,000	22.6%	77.4%	$290,000	$1,010,000
CO	SCTP Aeration Equipment Replacement (Blowers 1-4)	I	$3,100,000	22.6%	77.4%	$700,000	$2,400,000
CO	SCTP Groundwater Well #1 Replacement	I	$650,000	22.6%	77.4%	$150,000	$500,000
1	SCTP Solids Hopper Controls Replacement	I	$990,000	22.6%	77.4%	$220,000	$770,000
2	SCTP Potable Water Supply Replacement	I	$6,400,000	22.1%	77.9%	$1,400,000	$5,000,000
3	SCTP Aeration Blower #5 Improvement	I	$250,000	22.6%	77.4%	$60,000	$190,000
4	SCTP Influent Screen Replacement	I	$3,200,000	22.6%	77.4%	$700,000	$2,500,000
5	SCTP Thickening Equipment Replacement	I	$7,700,000	22.6%	77.4%	$1,700,000	$6,000,000
6	SCTP Grit System Replacement	I	$3,600,000	21.7%	78.3%	$780,000	$2,820,000
7	RTP Secondary Clarifier Rehabilitation	I	$150,000	0.0%	100.0%	$0	$150,000
8	SCTP Secondary Clarifier Rehabilitation	I	$1,500,000	22.6%	77.4%	$350,000	$1,150,000
NS	Battle Ground Force Main / Eaton Road Relocation	I	$330,000	78.2%	21.8%	$260,000	$70,000
NS	SCADA Server Replacement	P	$2,100,000	22.6%	77.4%	$470,000	$1,630,000
NS	System-wide Instrumentation Replacement	P	$14,100,000	22.6%	77.4%	$3,200,000	$10,900,000
NS	System-wide Valving Replacement	P	$4,700,000	22.6%	77.4%	$1,100,000	$3,600,000
NS	System-wide VFD Replacement	P	$5,400,000	22.6%	77.4%	$1,200,000	$4,200,000
NS	SCTP Solids Vessel Inspection & Rehabilitation	P	$8,400,000	22.6%	77.4%	$1,900,000	$6,500,000
NS	System-wide HVAC Replacement	P	$7,400,000	22.6%	77.4%	$1,700,000	$5,700,000
NS	Building Systems R&R Allowance	P	$13,050,000	22.6%	77.4%	$2,900,000	$10,100,000
NS	Process Sytems R&R Allowance	P	$16,080,000	22.6%	77.4%	$3,600,000	$12,400,000
R&R PROGRAM TOTALS			$118,600,000			$26,330,000	$92,100,000

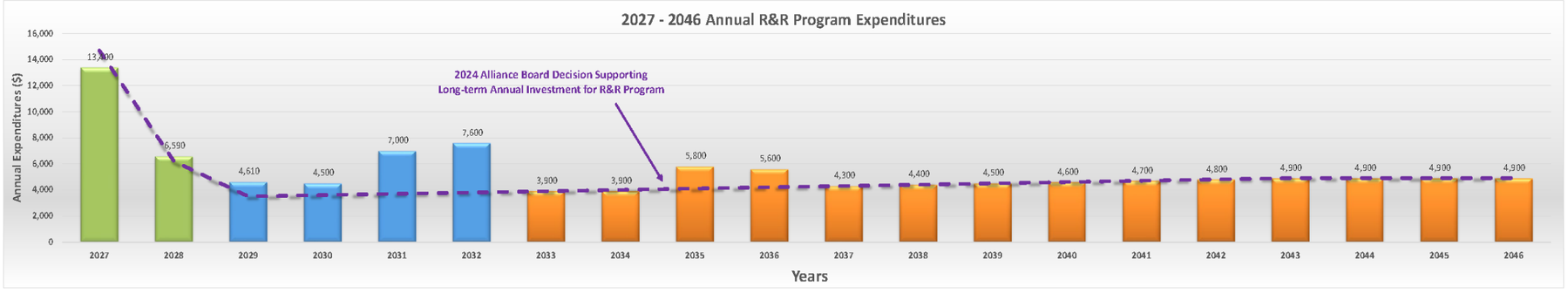
20-year Cash Flow. The two-, six- and 20-year capital projects related to existing Regional Assets will be carried forward into the Capital Budget to determine appropriate funding mechanisms and the resulting Regional Service Charges to the Alliance Members.

Table 2.4 and associated bar chart present cash flow summaries for the R&R capital investments necessary to ensure the existing Regional Assets function as needed over time. The bar chart includes a dashed line superimposed over the annual capital investments to show how these funding levels compare to the Alliance Board's 2024 R&R annual funding target expressed in 2026 dollars. All projects related to existing Regional Assets will be carried forward into the Capital Budget to determine appropriate funding mechanisms and the resulting Regional Service Charges.

Table 2.4 – Project Funding – Repair and Replacement Program (all costs are in 2026 dollars & shown in $1,000's)

SCTP Expansion Phase		4	4	5	5	5	5	5	5	6	6	6	6	7	7	7	7	7	7	7	7	7	7		
Year				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	20-Year Period Total	Total Project Cost
Project Name		Actual Through 2025	Estimated 2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046		
R&R Projects																									
SCTP Dewatering Equipment Replacement	CO	1,280	1,520	5,800	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,200	9,000
SCTP UV System Replacement	CO	1,007	2,293	3,900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,900	7,200
SCTP Influent Flow Meter Replacements	CO	42	158	200	900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,100	1,300
SCTP Aeration Equipment Replacement (Blowers 1-4)	CO	55	445	100	200	2,300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,600	3,100
SCTP Solids Hopper	1	-	-	200	790	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	990	990
SCTP Potable Water Supply Replacement	2	-	-	-	450	450	450	1,000	1,000	-	150	1,450	1,450	-	-	-	-	-	-	-	-	-	-	6,400	6,400
SCTP Aeration Blower #5 Improvement	3	-	-	40	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	250	250
RTP Secondary Clarifier Rehabilitation	7	-	-	10	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150	150
SCTP Secondary Clarifier Rehabilitation	8	-	-	-	-	150	450	-	-	-	100	200	-	-	-	100	200	-	-	-	100	200	-	1,500	1,500
Battle Ground Force Main / Eaton Road Relocation	NS	-	-	-	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	330	330
Subtotal - R&R Projects		**2,384**	**4,416**	**10,250**	**3,420**	**2,900**	**900**	**1,000**	**1,000**	**-**	**250**	**1,650**	**1,450**	**-**	**-**	**100**	**200**	**-**	**-**	**-**	**100**	**200**	**-**	**23,420**	**30,220**
R&R / CIP Blended Projects (completed with Phase 6/7)																									
SCTP Influent Screen Replacement	4	-	-	-	160	160	320	1,280	1,280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,200	3,200
SCTP Thickening Equipment Replacement	5	-	-	-	390	390	760	3,080	3,080	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7,700	7,700
SCTP Grit System Replacement	6	-	-	-	-	-	-	-	180	180	360	1,440	1,440	-	-	-	-	-	-	-	-	-	-	3,600	3,600
Subtotal - R&R / CIP Blended Projects		**-**	**-**	**-**	**550**	**550**	**1,080**	**4,360**	**4,540**	**180**	**360**	**1,440**	**1,440**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**14,500**	**14,500**
Building Systems Programs	NS																								
SCTP Operations Center HVAC Replacement	CO	289	811	900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	900	2,000
System-wide HVAC Replacement		-	-	140	560	70	230	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	7,400	7,400
Building Systems Allowance		958	172	780	280	310	470	140	140	700	700	700	700	700	700	700	700	700	700	700	700	700	700	11,920	13,050
Subtotal - Building Systems Programs		**1,247**	**983**	**1,820**	**840**	**380**	**700**	**540**	**540**	**1,100**	**1,100**	**1,100**	**1,100**	**1,100**	**1,100**	**1,100**	**1,100**	**1,100**	**1,100**	**1,100**	**1,100**	**1,100**	**1,100**	**20,220**	**22,450**
Process Systems Programs	NS																								
SCTP Groundwater Well #1 Replacement	CO	103	107	-	-	440	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	440	650
SCADA Server Replacement		-	-	-	-	80	620	-	-	-	-	-	-	80	620	-	-	-	-	-	-	80	620	2,100	2,100
System-wide Instrumentation Replacement		-	-	40	570	30	360	450	450	700	700	900	900	900	900	900	900	900	900	900	900	900	900	14,100	14,100
System-wide Valving Replacement		-	-	30	200	60	430	230	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	4,700	4,700
System-wide VFD Replacement		-	-	20	140	40	260	300	300	310	310	310	310	310	310	310	310	310	310	310	310	310	310	5,400	5,400
SCTP Solids Vessel Inspection & Rehabilitation		-	300	1,150	750	-	-	-	300	1,150	750	-	-	-	300	750	750	750	750	-	300	750	750	9,200	8,400
Process Systems Allowance		54	306	90	120	130	150	120	220	210	180	150	150	1,660	920	1,090	1,090	1,390	1,490	2,340	1,940	1,310	970	15,720	16,080
Subtotal - Process Systems Programs		**157**	**713**	**1,330**	**1,780**	**780**	**1,820**	**1,100**	**1,520**	**2,620**	**2,190**	**1,610**	**1,610**	**3,200**	**3,300**	**3,300**	**3,300**	**3,600**	**3,700**	**3,800**	**3,700**	**3,600**	**3,800**	**51,660**	**51,430**
Total Annual R&R Projects Expenditures		**3,788**	**6,112**	**13,400**	**6,590**	**4,610**	**4,500**	**7,000**	**7,600**	**3,900**	**3,900**	**5,800**	**5,600**	**4,300**	**4,400**	**4,500**	**4,600**	**4,700**	**4,800**	**4,900**	**4,900**	**4,900**	**4,900**	**109,800**	**118,600**
BIENNIAL BUDGET CYCLE TOTALS			**9,900**		**19,990**		**9,110**		**14,600**		**7,800**		**11,400**		**8,700**		**9,100**		**9,500**		**9,800**		**9,800**		

#	*New Projects*
CO	*Carry Over Project (project already under construction)*
NS	*Programs Not Scored*
	Italicized projects targeted for potential financing



SECTION 3

New Regional Assets

3.1 New Regional Assets – Capital Improvement Program

This section of the Capital Plan presents the infrastructure investments needed to address system capacity, new regulatory obligations, or new level-of-service commitments over time.

Regional Asset Capacity Assessment – General. The initial planning basis for individual projects has been established in the Member agency planning documents listed in Appendix A. The timelines associated with the project recommendations in the planning documents have been updated in the Capital Plan to align with actual development trends and forecast growth based on the best available economic information. A summary of the growth and capacity management approach is as follows:

- *Collection System Response*. Rainfall patterns and the resulting flows in the wastewater collection system are reviewed to determine the appropriate basis of forecast. Ecology assigns treatment capacity on a maximum monthly flow basis or the average flow over a month during a sustained wet weather period. The Capital Plan uses the collection system response from December 2015 as the highest maximum monthly flow response in recent record. These flows are indexed to the size of the collection system at the time of the storm response in terms of flow per equivalent residential unit (ERU) for each of the service areas.

- *Historical Growth Trends*. The Alliance capacity management model is updated to reflect actual development trends since the last Capital Plan update. For this update, the development patterns in 2024 (1,724 ERUs) and 2025 (1,526 ERUs) were somewhat above the longer-term growth trend for the region (approximately 1,400 ERUs/year). Incorporating these two years of data into the model provides a new baseline for future projections.

- *Basis of Growth Projections*. The managers of the wastewater collection systems for Battle Ground and the District are consulted, and an updated forecast for years 0 to 5 is obtained from the Member agencies delivering flow into the Regional Assets. For years 6 to 20, a projected growth value near the long-term average is used. These long-term average values are normalized to reflect both recessionary periods and periods with above-trend economic growth.

- *Alliance General Sewer Plan*. The Alliance is developing its first General Sewer Plan (GSP) and has updated flow and wasteload projections from a separate consultant analysis using a more sophisticated methodology. The consultant projections were plotted on the same charts with the historic Alliance approach to compare the results. The consultant flow projections are slightly lower than the Alliance model, and the consultant wasteload projections trend higher than the Alliance model (see Figures 3-1, 3-2, and 3-3). The consultant work is also aligned with the county-wide comprehensive planning "periodic update" process that is occurring in parallel with the Capital Plan development.

- *Updated Capital Project Timing*. The capital project timing is then adjusted to align with the updated growth projections with just-in-time delivery planned for projects. The capital project timing has been set to align with the consultant projections, as the best available information.

- *Shared Capacity Approach*. The project timelines depicted in the Capital Plan are derived from an assessment of total asset capacity rather than the Allocated Capacity owned by a single Alliance Member. This approach effectively assumes that Members will work cooperatively together to share or lease capacity to maximize the use of a Regional Asset and defer future capital investments to the extent possible, in line with the Alliance's Core Value to *Optimize use of existing facilities*.

Regional Asset Capacity Assessment – Salmon Creek Treatment Plant. To illustrate the updated capacity analysis, information is provided here for the Salmon Creek Treatment Plant (SCTP). The SCTP is the primary Regional Asset in terms of overall size, complexity, and historical cost. In addition, it represents the limiting capacity element in the Alliance-owned Regional Assets.

The Department of Ecology (Ecology) requires the Alliance to submit a plan and schedule maintaining adequate capacity in the treatment facilities when one of the following two conditions is met (reference SCTP NPDES permit Section S4.B):

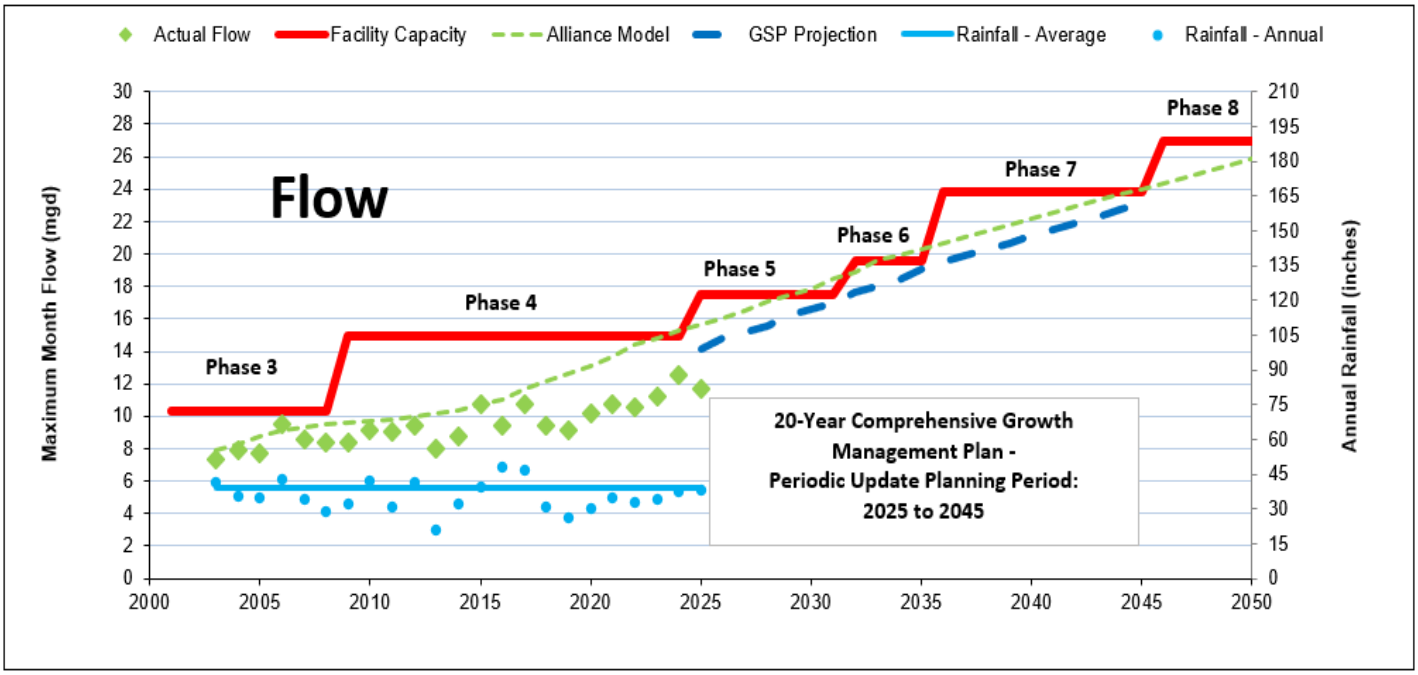
- actual flow or actual wasteload reaches 85% of the rated capacity of the facility for three consecutive months; or
- projected flow or projected wasteload will reach the design capacity of the facility within five years

SCTP capacity has been assessed relative to these criteria for both flow and wasteload, and the results are summarized herein.

Flow:
In terms of the flow-based assessment, SCTP influent flow is presented in Figure 3.1. As noted above, flow at a regional treatment plant is influenced by multiple factors such as (1) overall growth in the system, (2) general rainfall patterns that contribute additional flows to the plant, termed infiltration and inflow (I/I), and (3) changes in the water use patterns over time in the population represented by the service area.

Taking these factors into consideration, this assessment indicates that capacity in the system must be increased by approximately 2032. The Figure also indicates that Phase 6, 7 and 8 expansions are needed within the 20-year planning period.

Figure 3.1 – Salmon Creek Treatment Plant Capacity Assessment – Influent Flow



Wasteload:

In terms of wasteload assessment, SCTP influent wasteload is presented in Figures 3.2 and 3.3. Wasteload is presented for two parameters used by Ecology to track plant capacity: (1) total suspended solids (TSS) (illustrated in Figure 3.2) and (2) biochemical oxygen demand (BOD) (illustrated in Figure 3.3). TSS is a measure of particulate solids in wastewater. BOD is a measure of the wastewater strength based on how biological activity responds to the "food" sources in the wastewater. Considering these factors, this assessment indicates capacity in the system also needs to be increased by 2032 for both TSS and BOD.

Figure 3.2 – Salmon Creek Treatment Plant Capacity Assessment – Influent Wasteload – Total Suspended Solids (TSS)

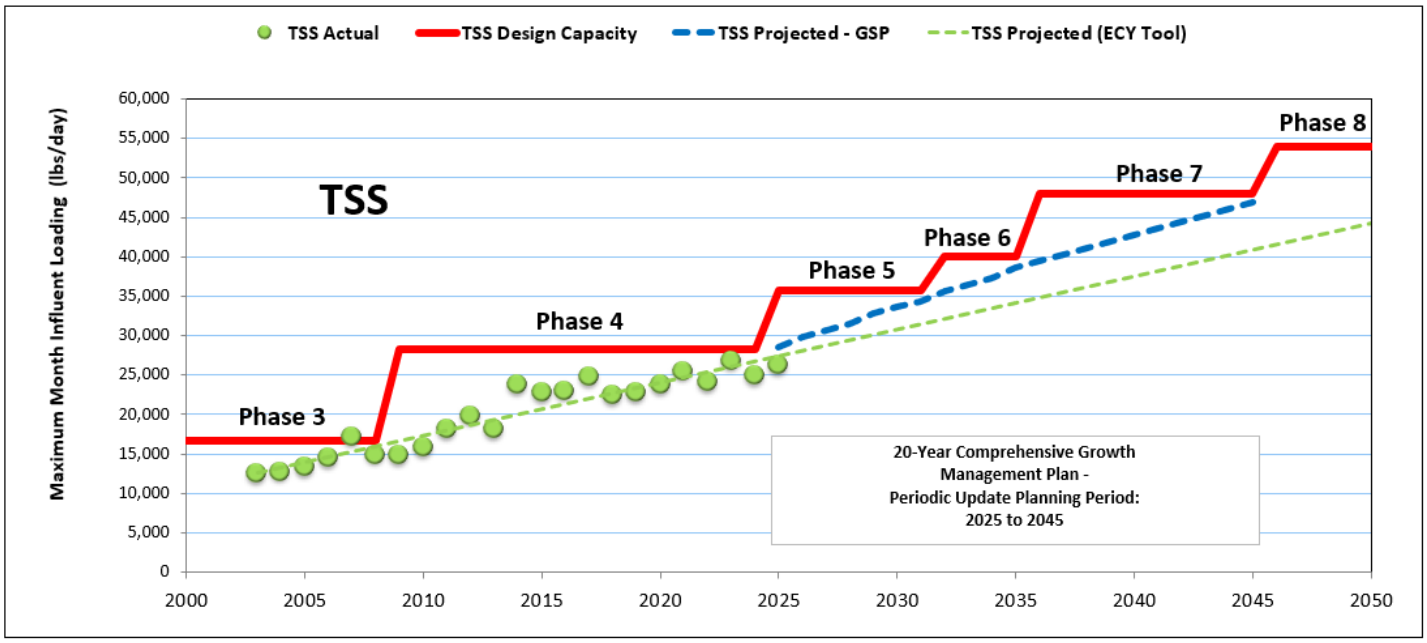
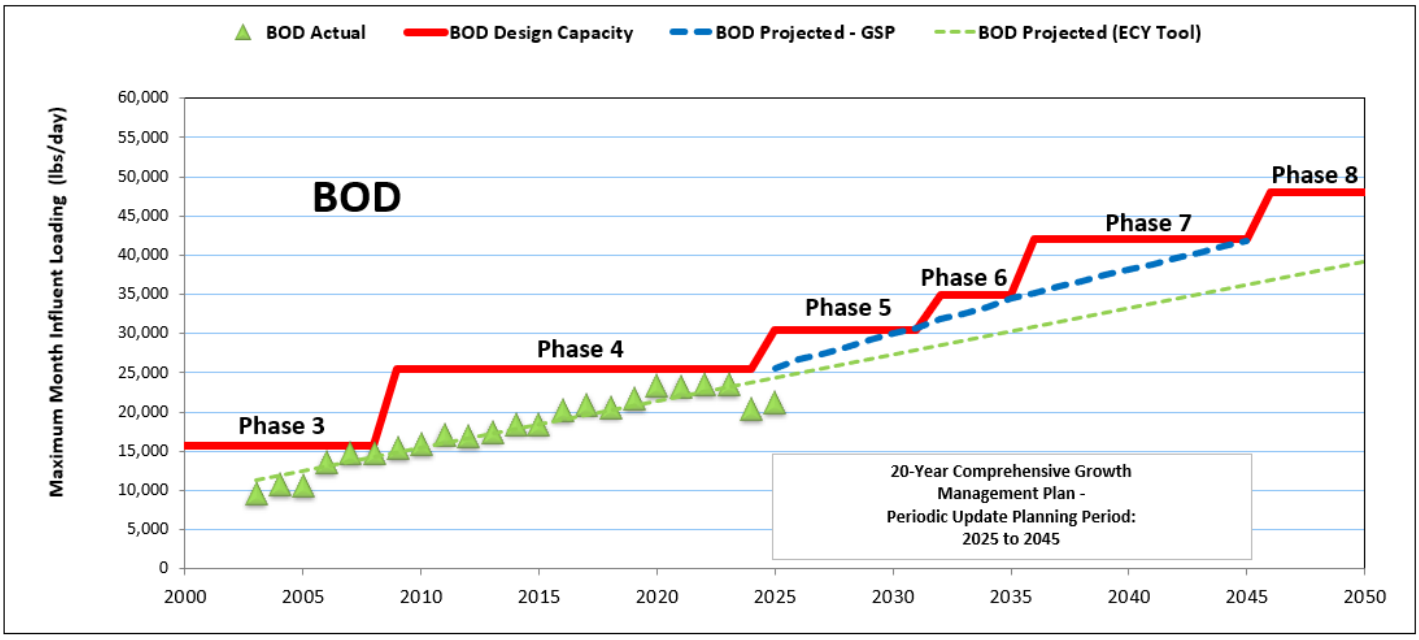


Figure 3.3 – Salmon Creek Treatment Plant Capacity Assessment – Influent Wasteload – Biochemical Oxygen Demand (BOD)



The results of the SCTP capacity assessment are summarized as follows:

Table 3.1 – Summary of Salmon Creek Treatment Plant Capacity Assessments

Parameter	Flow (mgd, MMF)	TSS (ppd, maximum month)	BOD (ppd, maximum month)
Design Capacity	17.50	35,770	30,520
Year Design Capacity Reached (projected)	2032	2032	2032
Ecology Approval of Plans for Maintaining Capacity			
• Alliance General Sewer Plan/Phase 6 Engineering Report	Anticipated submittal of plan for maintainting adequate capacity – 2027		

As Table 3.1 indicates, the plan for maintaining adequate capacity for the SCTP is anticipated to be submitted in 2027, five years before the plant flow or wasteload capacity would be reached.

The projects and funding Member cost responsibility are summarized in Table 3.2. The individual capital projects are profiled in detail in Appendix D. One new project was identified for the 2026 Capital Plan – Ridgefield Treatment Plant Effluent Cooling Project.

All capital projects currently represented will be carried forward into the Capital Budget to determine appropriate project funding mechanisms and the resulting Regional Service Charges to the Alliance Members.

Table 3.2 – New Regional Assets – Funding Member Cost Responsibility (all costs in 2026 dollars)

	CIP Project Name	PROJECT COST	Battle Ground Percentage Share	Clark Regional Percentage Share	Battle Ground Cost Allocation	Clark Regional Cost Allocation
1	117th Street Pump Station Capacity Upgrade (Phase 6)	$ 19,200,000	22.0%	78.0%	$ 4,200,000	$ 15,000,000
2	SCTP Phase 5B (Treatment Plant) Expansion	$ 34,600,000	19.2%	80.8%	$ 6,600,000	$ 28,000,000
3	SCTP Phase 6 Expansion (Remove Second UV Channel)	$ 53,100,000	13.8%	86.2%	$ 7,300,000	$ 45,800,000
4	SCTP Class A Biosolids Upgrade - Thermal Drying	$ 21,300,000	21.7%	78.3%	$ 4,600,000	$ 16,700,000
5	SCTP Phase 7 Expansion	$ 51,500,000	20.0%	80.0%	$ 10,300,000	$ 41,200,000
6	SCTP Phase 8 Expansion	$ 21,100,000	19.7%	80.3%	$ 4,200,000	$ 16,900,000
7	RTP Effluent Cooling	$ 590,000	0%	100%	$ 0	$ 590,000
8	RTP Decommissioning	$ 5,500,000	0%	100%	$ 0	$ 5,500,000
9	BGFM Parallel Force Main	$ 50,500,000	100%	0%	$ 50,500,000	$ 0
10a	General Sewer Plan/Phase 6 Engineering Report	$ 2,500,000	21.8%	78.2%	$ 500,000	$ 2,000,000
10b	General Sewer Plan/50 Year Vision	$ 2,500,000	21.4%	78.6%	$ 500,000	$ 2,000,000
	CIP PROGRAM TOTALS	$ 262,390,000			$ 88,700,000	$ 173,690,000

3.2 Change in Allocated Capacity

Allocated Capacity may be changed among Members through a Capital Plan (IFA, Section IV). Allocated Capacity is a critical parameter for Alliance Members because it is the fundamental basis upon which Alliance costs are determined for individual Alliance Members.

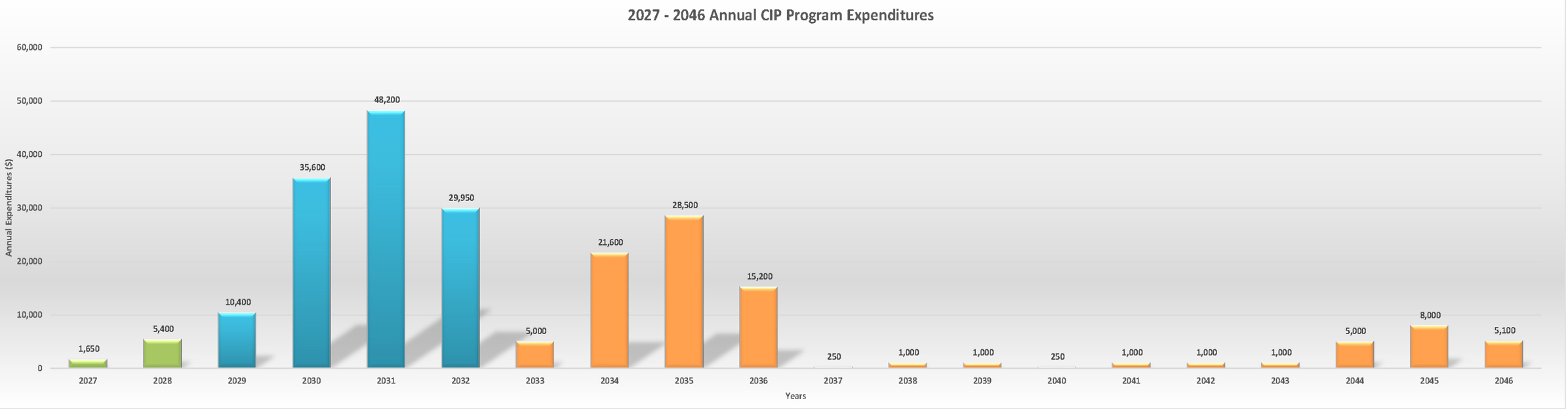
Both the Phase 5A and Phase 5B projects were completed in 2025. The Allocated Capacity has been updated to reflect the completion of these projects and becomes effective through the adoption of this Capital Plan.

The Alliance is currently preparing a General Sewer Plan to update the program's capital investments needed to address system capacity and regulatory requirements through 2045. Through this planning process, it has been identified that the previous Operator for the Alliance retrofitted the pumps at the 117th Street Pump Station with a cutter assembly that lowered the capacity of the pumps from that originally constructed. It is anticipated that this issue will be addressed in the 2028 Capital Plan where the reduced capacity of the pump station will be recognized to better reflect the current capacity of the facility. Future increases in capacity will then be determined from the adjusted current capacity baseline.

Table 3.3 – Project Funding – Capital Improvement Program (all costs are in 2026 dollars & shown in $1,000's)

Year		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
Project Name		Actual Through 2025	2026 Estimate	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	20-Year Period Total	Project Total
Expenditures																									
CIP Projects																									
117th Street Pump Station Capacity Upgrade (Phase 6)		-	-	-	1,000	2,000	7,600	8,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19,200	19,200
SCTP Phase 5B (Treatment Plant) Expansion		33,672	378	550	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	550	34,600
SCTP Phase 6 Expansion (Remove Second UV Channel)		400	650	200	2,500	4,000	13,000	21,000	11,350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52,050	53,100
SCTP Class A Biosolids Upgrade - Thermal Drying		-	-	-	-	-	-	1,100	1,100	1,100	5,300	8,500	4,200	-	-	-	-	-	-	-	-	-	-	21,300	21,300
SCTP Phase 7 Expansion		-	-	-	-	-	-	2,500	2,500	2,500	13,000	20,000	11,000	-	-	-	-	-	-	-	-	-	-	51,500	51,500
SCTP Phase 8 Expansion		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,000	1,000	1,000	5,000	8,000	5,100	21,100	21,100
x	RTP Effluent Cooling	47	43	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	500	590
	RTP Decommissioning	-	-	-	400	400	-	-	-	1,400	3,300	-	-	-	-	-	-	-	-	-	-	-	-	5,500	5,500
	BGFM Parallel Force Main	-	-	-	1,500	4,000	15,000	15,000	15,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50,500	50,500
	Alliance General Sewer Plan/Phase 6 Engineering Report	803	1,297	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	400	2,500
	Alliance General Sewer Plan/50 Year Vision	-	-	-	-	-	-	-	-	-	-	-	-	250	1,000	1,000	250	-	-	-	-	-	-	2,500	2,500
Total Annual CIP Projects Expenditures		34,922	2,368	1,650	5,400	10,400	35,600	48,200	29,950	5,000	21,600	28,500	15,200	250	1,000	1,000	250	1,000	1,000	1,000	5,000	8,000	5,100	225,100	262,390

1 *New Project Identified for 2026 Capital Plan*



APPENDIX A

DISCOVERY CLEAN WATER ALLIANCE
OVERVIEW

A.1: HISTORY AND FORMATION
A.2: NAME AND ORGANIZATIONAL STRUCTURE
A.3: GOVERNOR'S 2013 SMART COMMUNITIES AWARD

A.1 Alliance History and Formation



The Discovery Clean Water Alliance (Alliance) legally formed on January 4, 2013, representing the culmination of several years of evaluation to determine the optimum long-term framework for delivery of regional wastewater transmission and treatment services to the urban growth areas in the central portion of Clark County, Washington.

The overall Alliance service area represents the majority of the high-growth communities within Clark County. Residents and businesses served by the regional wastewater system value receiving reliable service at an affordable price from the Member agencies. The Alliance, therefore is designed to provide a regional collaboration and decision-making forum that fosters the ability for Member agencies to influence key policy determinations on how best to make needed capital investments and determine operational level-of-service, while also maintaining competitive rates and charges to the end users of the system.

Having managed the region's growth under other service delivery models prior to formation of the Alliance, the Members determined that regional decisions are best made when all stakeholders participate directly in decisions having a material impact to service levels or costs. To that end, the primary outcomes of the Alliance structure are to:

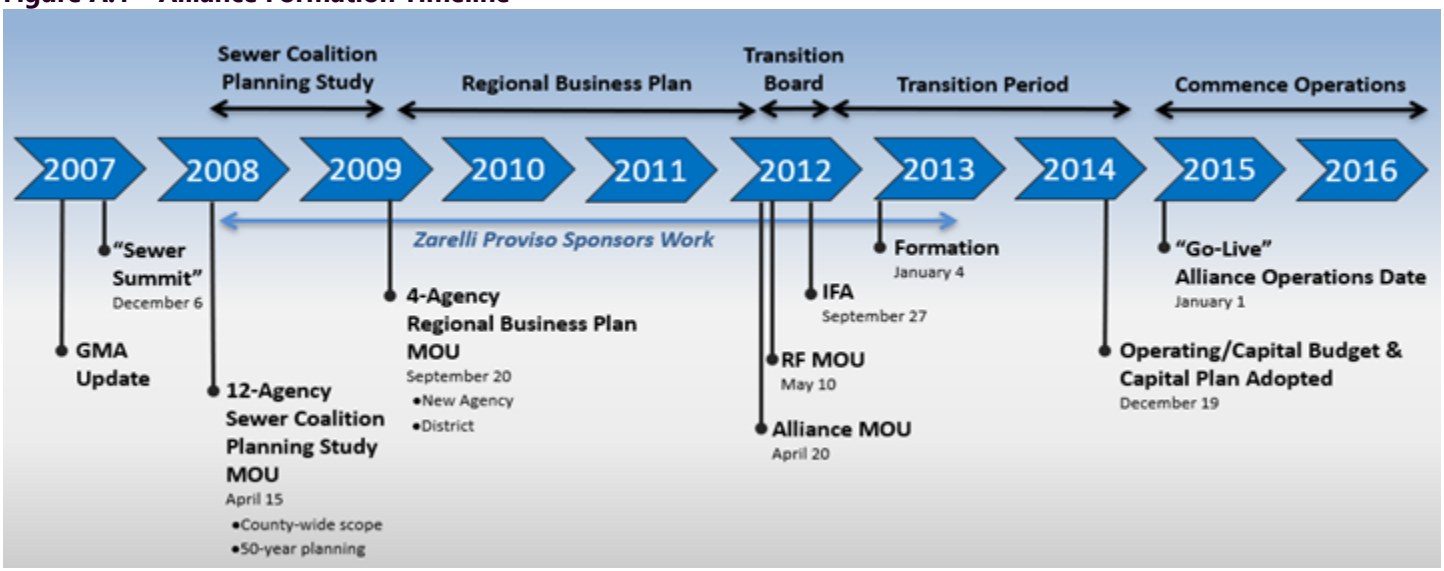
- provide a direct voice and a vote for agencies affected by regional infrastructure decisions
- align the authority to make decisions with the responsibility to pay for the resulting impacts of those decisions
- provide a forum to determine the appropriate balance between level-of-service and cost-of-service

As currently established, the Alliance serves four Member agencies – the City of Battle Ground, Clark County, Clark Regional Wastewater District, and the City of Ridgefield. The Members jointly own and jointly manage regional wastewater assets under Alliance ownership through an interlocal framework established under the State of Washington Joint Municipal Utility Services Act (JMUSA) (RCW 39.106).

The JMUSA statute was passed by the Washington State Legislature and signed by the Governor in 2011. The Discovery Clean Water Alliance was the second agency in the state to form under this statute, after the Cascade Water Alliance. While the Alliance is a regional wastewater transmission and treatment utility today, the statute allows for any form of municipal water-related utility service to be provided and supports any combination of municipal partner agencies as Members. This structure ensures the flexibility to accommodate changing needs of the regional service area over time.

A summary of the transition timeline and process that led to the formation of the Alliance is provided below.

Figure A.1 – Alliance Formation Timeline



- **<u>Sewer Summit</u>.** In September 2007, Clark County adopted an updated *20-Year Comprehensive Growth Management Plan,* addressing the future needs of the community. This planning process identified the growth potential and related infrastructure needs of several of the urban growth areas within Clark County. As a result, wastewater service providers in Clark County began to discuss the concept of regionalizing wastewater services to support a healthy environment and to provide infrastructure needed to realize the area's economic development potential. These discussions culminated in a "Sewer Summit" on December 6, 2007, where the idea of studying various regional services delivery models was first endorsed by a broad coalition of local agencies.

- **<u>Sewer Coalition Planning Study</u>.** The Sewer Summit discussions resulted in the *Sewer Coalition Planning Study*, started in 2008, and published in November 2009, with twelve local agencies. This study considered a 50-year vision for growth and infrastructure needs in a county-wide context. The study resulted in a *Memorandum of Understanding (MOU) to Develop the Structure for a Regional Wastewater Entity*. Four of the twelve agencies (today, the Members of the

Alliance) agreed in the MOU to move forward to form a new regional partnership. The remaining eight coordinating agencies would continue to coordinate with, and stay informed on, the process. A legislative proviso sponsored by State Senator Joseph Zarelli was utilized to provide for this and the subsequent planning and study work.

- **Regional Business Planning.** In 2010 and 2011, the four agencies conducted a regional business planning effort to explore specific options for how a new regional partnership might be structured, what services it might provide, what assets it might own, how it might be governed and how it might be funded.



This regional business planning effort resulted in a second MOU signed in April 2012, providing agreement-in-principle for the framework of the new partnership. Key elements of the MOU included formation of the new entity under JMUSA (RCW 39.106); use of an asset-based cost allocation model; oversight from a four-member Board of Directors composed of one elected official from each agency; and contracting key administrative and operational responsibilities to the Member agencies best suited to provide those services.

The asset-based cost allocation model consists of four primary types of costs:

1) operational costs shared by current actual flow contributions from the Members;
2) capital costs related to existing facilities by current capacity allocation or capacity "ownership" in those facilities;
3) capital costs related to new facilities by incremental purchase of capacity; and
4) administrative costs not related to operations are shared by capacity allocation in the treatment facilities.

- **Alliance Formation.** Building on the April 2012 MOU, an Interlocal Formation Agreement (IFA) was completed in September 2012, providing the necessary framework elements for the Discovery Clean Water Alliance. The IFA was registered with the Washington State Office of Secretary of State on January 4, 2013, to legally form the Alliance. The Alliance Board of Directors then met for the first time on January 18, 2013, where a series of initial resolutions were approved to establish the basic operating framework for the new regional authority. Also approved on that date was an initial two-year operating budget to support transition activities in 2013 and 2014.



The individuals serving on the Board of Directors at the first official meeting of the Alliance were: Mayor Lisa Walters – City of Battle Ground; Commissioner Tom Mielke – Clark County; Commissioner Neil Kimsey – Clark Regional Wastewater District; and Mayor Ron Onslow – City of Ridgefield. The IFA was amended and restated by resolution on August 15, 2014, to further clarify policies and procedures. The Alliance assumed full operational responsibility for the Regional Assets on January 1, 2015 (the Alliance Operations Date).

The Alliance is one of several regional water and wastewater agencies providing service to large urban areas in western Oregon and Washington. In much the same way that the boundaries of a natural watershed are different than political boundaries of cities and counties, utility systems are often most efficiently managed on a regional scale serving multiple local jurisdictions. While the corporate structures and functional arrangements vary widely, the Alliance is a peer agency in many respects with the following Pacific Northwest regional water and wastewater agencies shown on the following page.

Figure A.2 – Regional Utility Partnerships Located in Oregon and Washington



A.2 Alliance Name and Organizational Structure

As the Alliance was in its formative stages, it was necessary to establish a clear identity for the new agency. The name **Discovery Clean Water Alliance** was chosen after a review of possible options. Historically, the name "discovery" is tied to the Lewis and Clark expedition which traversed Clark County over two hundred years ago and was officially called the "Corps of Discovery." "Discovery" also was the name of the lead ship in George Vancouver's exploration of the North American west coast. This moniker offered historical significance and represented a positive future direction for the modern-day explorers charting the future of utility service for Clark County.

A graphical identity was also developed to complement the new entity name. Battle Ground staff offered to coordinate design development utilizing the talents of a local graphic design student. Options were reviewed and a design incorporating a water droplet, leaf and fish graphic was selected. The logo concept was created to contain the following elements represented by the new entity:

- **water droplet** – represents clean water; the color is blue for water
- **leaf** – plants require clean water and help create oxygen, a primary element in water; the color is green for a leaf, and for the official wastewater color used in utility locate functions
- **salmon** – a fish represents the need for wildlife to have clean water, and ties into the local rivers protected by the regional wastewater system

The Alliance Board unanimously approved the logo in 2013, which has since become a recognizable representation of the regional agency. The Alliance Board also provided a Certificate of Appreciation to the Battle Ground art student responsible for the winning entry.

The Member agencies continued their collaborative efforts through the development of the Alliance organizational framework. The framework is structured to foster significant interaction among the Alliance Members in all major operational, financial and infrastructure decisions. A summary of key roles and responsibilities is provided below.

- **Board of Directors and Legal Counsel.** The Board of Directors is composed of one elected official from each of the Member agencies to form a four-person policy and oversight body. The Board then selects from among the four appointed Directors to fill positions for Chair, Vice-Chair and Secretary. The Board has selected Foster Garvey to serve as legal counsel to the Alliance. Board responsibilities and functions are further depicted in the IFA and in a separately adopted resolution of Board Rules and Operating Procedures.

  A "House" and Senate" voting structure mandates a high level of regional consensus for "Significant Decisions" of the Alliance Board. This structure incorporates two voting mechanisms: (1) majority voting (Directors only) and (2) dual-majority voting (Directors and Treatment Facilities Allocated Capacity). Routine votes per IFA Section IV.F.4 require only a majority vote of Directors present. Significant Decisions, on the other hand, require "dual majority" approval by both the number of Directors present (the "Senate test") and the Directors representing the volume of Treatment Facilities Allocated Capacity (the "House test").

  Practically speaking under the current framework, regional consensus among 75% (3 out of 4) is required to form a simple majority for routine votes. 75% is also required to form a dual-majority

for Significant Decisions, with the additional requirement that the agency representing the largest customer base (today, the District) must be one of the three approving members (stated another way, the District's vote is required to meet the "House" portion of the test).

The following decisions related to capital planning for Regional Assets are classified as "Significant Decisions" in the IFA and require a Dual Majority Vote (passing 50% of both the Senate and House tests): the borrowing of money or issuance of Bonds, a change in the ownership of Regional Assets and the adoption of a Capital Budget.

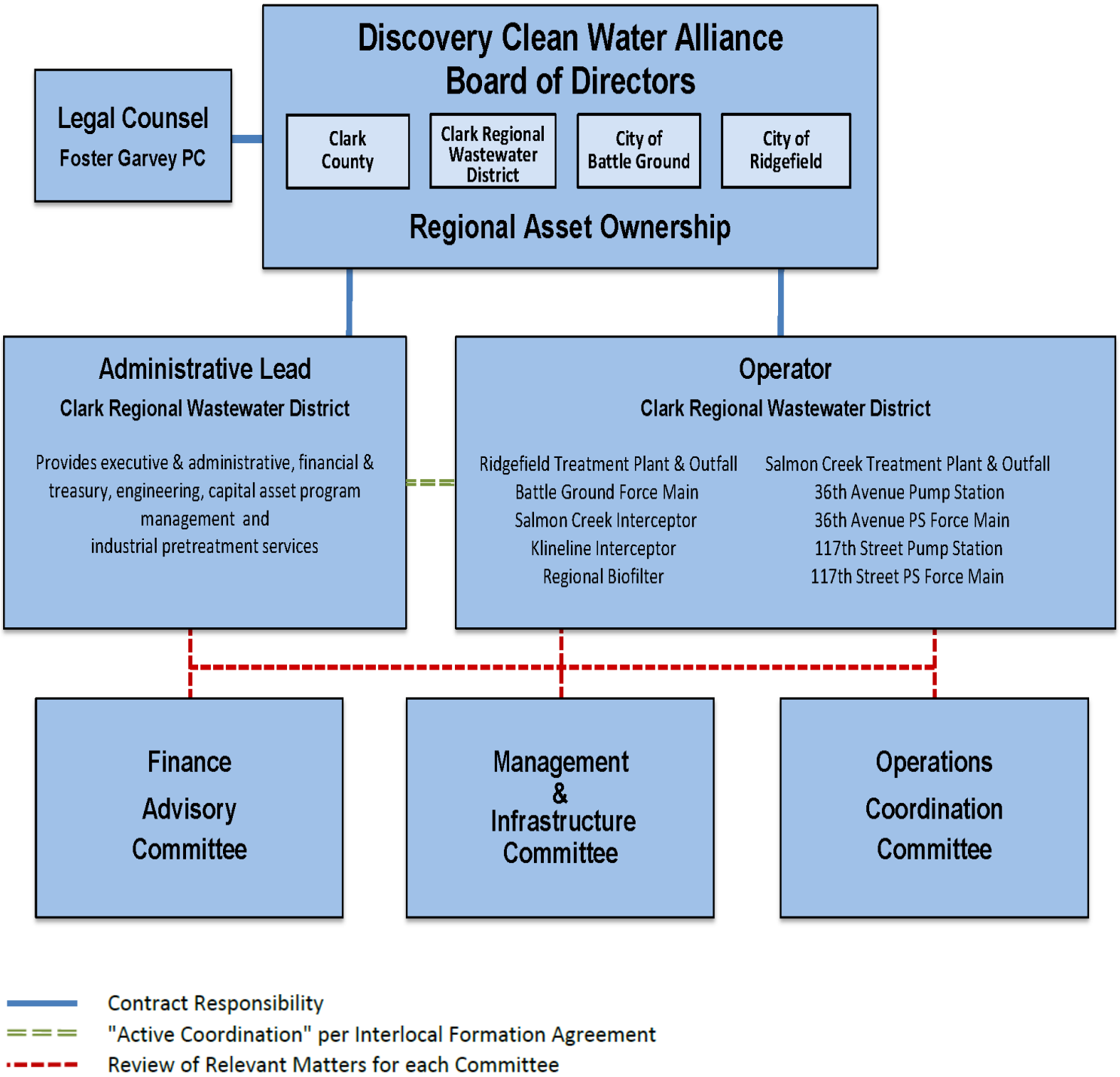
The following decisions related to capital planning for Regional Assets are classified as "Significant Decisions" in the IFA and require a Dual Super-Majority Vote (passing 60% of both the Senate and House tests): the adoption of a Capital Plan (including the allocation of costs pursuant to any such Capital Plan) and a change in Allocated Capacity.

- **Member Service Providers.** The Alliance structure relies on contracts with its Members to deliver the majority of services. Ridgefield and Clark County initially served as Operators for the Alliance at formation. The Ridgefield operational responsibilities were transferred to the District in 2018. Similarly, the Clark County operational responsibilities were transferred to the District in 2022. Today, the District serves as the Operator for all Alliance Regional Assets. The District is separately contracted with the Alliance as Administrative Lead to provide executive, administrative, financial, treasury, engineering, capital program management, and pretreatment services.

- **Standing Committees.** The Alliance has formed three Standing Committees to provide forums for vetting all Alliance issues. The Finance Advisory Committee (FAC) provides for Member input into financial matters for the Alliance. The Management and Infrastructure Committee (MIC) solicits guidance from the Members on management and infrastructure matters for the Alliance. An Operations Coordination Committee (OCC) allows for Member interaction and coordination on operations and maintenance matters for the Alliance.

The interaction among these groups is illustrated in Figure A.3, Alliance Contractual and Communication Flow Chart. The Member Service Providers (today, the District) share information with the Standing Committees and have direct contractual responsibility to the Board of Directors. Legal Counsel works directly for the Board, also through a contractual relationship.

Figure A.3 – Alliance Contractual and Communication Flow Chart



A.3 Governor's 2013 Smart Communities Award

Each of the Alliance Members was recognized by Washington Governor Jay Inslee with a Governor's 2013 Smart Communities Award. The award recognized the value the Alliance provides to its Members and the larger community served by the regional wastewater transmission and treatment system. Following is an excerpt from the official statement provided with the award:



The Governor established these awards to recognize the accomplishments of community leaders to create smart, livable places. The awards are designed to recognize the good work being done in large and small communities across Washington State. The values and priorities of each community shine through each and every one of the projects nominated for these awards.

As Washington works to further strengthen its position in the global economy, the work of the local governments and their partners in creating vibrant, quality communities is vital to our success. The leadership of Discovery Clean Water Alliance's award-winning nomination helps make Washington a great state in which to live and do business.

Discovery Clean Water Alliance, (DCWA) is a partnership between Clark County, Clark Regional Wastewater District, and the Cities of Ridgefield and Battle Ground. DCWA pools the various agencies' resources, funds, and talents. By connecting wastewater systems, the partners can meet future service demand without paying for repetitive facilities in each service area.

In summary, at its most fundamental level, the Alliance provides a framework for the Members to jointly own and jointly manage regional wastewater transmission and treatment infrastructure critical to the environmental health and economic well-being of the region. Each Member has a voice and a vote in the decisions made by the Alliance, and together the Members will shape the future of the delivery of this critical urban service for the benefit of the community served.

APPENDIX B

DISCOVERY CLEAN WATER ALLIANCE
ASSET MANAGEMENT POLICY

DISCOVERY CLEAN WATER ALLIANCE
ASSET MANAGEMENT POLICY

Purpose
To responsibly manage the Alliance's assets in a manner that provides reliable service, meets regulatory expectations, protects the environment, and provides for the health and safety of the public and workforce, while optimizing lifecycle costs.

Policy Statement
The Alliance is committed to the following guiding principles:

- Continuous Improvement – always building upon previous work and incrementally developing the sophistication of the related maintenance and asset management programs.
- Appropriate Use of Technology - leverage existing technology (e.g., Lucity) and new information/tools as appropriate.
- Lifecycle and Performance Based – identifying the lowest life-cycle costs while meeting performance requirements.
- Risk-Based – defining and quantifying risk as primary means of prioritizing levels of investment and re-investment.
- Regulatory Compliant – always meeting commitments to regulatory permits and other legal obligations.

Following these principles, the Alliance will develop and maintain asset management practices and procedures that provide for the following:

Established Practice:

- Develop and maintain a comprehensive list of key assets
- Define asset condition based on specific, qualitative feedback
- Determine asset criticality based on a defined matrix
- Define acceptable level of risk (condition x criticality)
- Prioritize investment to minimize risk

Program Advancements for 2023-2024:

- Asset Management Plan (AMP) – further develop the following linkages:
    a. Define Organizational Objectives
    b. Define Asset Management Objectives
    c. Establish Performance Metrics/ Levels of Service
- Key Asset Inventory – further develop scope and detail of asset inventory.
- Key Asset Condition Assessments with Expected Useful Life – add quantitative assessments where possible and provide initial estimate of expected useful life.
- System Based Risk Framework – add a system perspective to the risk evaluation.
- Critical Spare Parts Inventory – define and implement a critical spares program element.

John M. Peterson, Executive Director

June 16, 2023
Effective Date

REVIEWED:

APPENDIX C

EXISTING REGIONAL ASSETS

REPAIR AND REPLACEMENT PROGRAM
PROJECT PROFILES

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

CO

Project Name: SCTP Dewatering Equipment Replacement
Project Number: RA07-26-1
Prioritization Score: Carryover
Form Prepared/Updated: May 2026

Project Type: Existing Asset – Repair ☐
Existing Asset – Replacement ☒
New Asset – Capacity ☐
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. This project will improve the biosolids dewatering performance and improve dewatering system reliability by replacing existing belt filter presses with screw presses at the Salmon Creek Treatment Plant (SCTP). Based on pilot and bench testing, the dewatering performance is anticipated to increase from 13% solids currently to approximately 18% solids.

Scope of Work. The project will replace two belt filter presses with screw presses of similar capacity. The current belt filter presses are nearly 30 years old and at the end of their useful life.

Cost Allocation. Project cost allocations are based on the date of project initiation. Costs will be apportioned to Battle Ground and the District according to the Salmon Creek Treatment Plant and Outfall Phase 5 allocated capacity of 3.96 mgd (22.6%) for Battle Ground and 13.54 mgd (77.4%) for the District. For additional information related to this project, see the *Salmon Creek Treatment Plant Dewatering Equipment Replacement Project Engineering Report, Brown & Caldwell, April 2024*.

Safety and Security. No major changes to safety and security are expected.

Comply with Regulations and Alliance Commitments. This project will significantly enhance service reliability and support the ability to meet current and future regulatory requirements.

Promotes Efficiency. This project will reduce biosolids hauling costs, corrective maintenance costs, and filtrate pumping and treatment costs.

Photos:



Existing SCTP Belt Filter Press | *New Screw Press* | *SCTP Solids Processing Center*

Budget Information:

Project Cost Estimate		
Total Project Cost:	$9,000,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Class 1	
Project Cost Allocation		
Battle Ground:	22.6%	$2,000,000
District:	77.4%	$7,000,000

Schedule Information:

Activity	Year
Planning	2022-2023
Permitting	2025
Real Property/ROW	NA
Design	2023-2025
Bid	2026
Construction	2026-2028

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

CO

Project Name: SCTP UV System Replacement
Project Number: RA07-26-2
Prioritization Score: Carryover
Form Prepared/Updated: May 2026

Project Type: Existing Asset – Repair ☐
Existing Asset – Replacement ☒
New Asset – Capacity ☐
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. The project will improve performance and energy efficiency in the Salmon Creek Treatment Plant (SCTP) Ultraviolet (UV) system by replacing the existing, obsolete Trojan UV4000 system with newer technology and constructing a second Ultraviolet (UV) Disinfection channel and UV treatment unit.

Scope of Work. Replacement and expansion of the current UV disinfection system will further improve environmental quality through a significant reduction in power usage and chemical used for cleaning bulbs. Replacing the existing unit will save the Alliance an estimated $15,000 per year in electricity costs, while benefiting the community at large by allowing the treatment plant to operate with less energy, which is supported by the Clark Public Utilities. Due to the age of the current UV disinfection system, the manufacturer is no longer producing replacement parts, so the project is also expected to eliminate timely and costly workarounds for maintenance and repairs.

Cost Allocation. The replacement portion of the project costs are apportioned to Battle Ground and the District according to current treatment plant allocated capacity. The new capacity portion of the project costs are allocated based on the incremental capacity purchases by Battle Ground and the District. See supplemental information section (reverse side) for additional detail. For additional information related to this project, see the *Project Definition Report for the Salmon Creek Treatment Plant UV System Replacement Project, Jacobs July 2024*.

Safety and Security. There are improvements expected for both employees and public health and safety.

Comply with Regulations and Alliance Commitments. This project will significantly enhance or restore equipment function, address obsolete equipment, and meet future disinfection capacity requirements.

Promotes Efficiency. The use of new technology will significantly improve efficiency.

Photos:



Existing UV System



Existing UV System Expansion During Phase 4

Budget Information:

Project Cost Estimate		
Total Project Cost:	$7,200,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Class 1	
Project Cost Allocation		
Battle Ground:	17.2%	$1,200,000
District:	82.8%	$6,000,000

Schedule Information:

Activity	Year
Planning	2023
Permitting	2025
Real Property/ROW	NA
Design	2023-2026
Bid	2026
Construction	2026-2027

Supplemental Information:

SCTP UV System Replacement
Project-Specific Cost Allocation Based on Responsibility for Contributing Factors

Contributing Factor	RESPONSIBILITY ALLOCATION: Contributing Factor (percent)	RESPONSIBILITY ALLOCATION: Battle Ground Share (percent)	RESPONSIBILITY ALLOCATION: District Share (percent)	COST ALLOCATION: Battle Ground Share (percent)	COST ALLOCATION: District Share (percent)
1. Existing Capacity – R&R Allocation	50.0%	22.6%	77.4%	11.3%	38.7%
2. New Capacity – Phase 6 Allocation	50.0%	11.9%	88.1%	5.9%	44.1%
TOTAL	100.0%			**17.2%**	**82.8%**

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

CO

Project Name: SCTP Operations Center HVAC Replacement
Project Number: RA07-26-3
Prioritization Score: Carryover
Form Prepared/Updated: May 2026

Project Type:
Existing Asset – Repair ☐
Existing Asset – Replacement ☒
New Asset – Capacity ☐
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. Replacement of the heating, ventilation, and air conditioning (HVAC) system in the Operations Center (Building 85) at the Salmon Creek Treatment Plant (SCTP) due to its age, controllability issues, and broken valves. New system should solve the current need to manually override of the boiler controls to maintain a constant temperature setpoint in the laboratory – 68 °F with a maximum range of plus or minus one degree per regulations. In addition, the replacement system needs to be adaptable to expand in the future if changes are made to the building.

Scope of Work. Replace the HVAC system in the SCTP Operations Center with an effective solution that considers initial capital and annual operating costs.

Cost Allocation. Project cost allocations are based on the year that the project is bid for construction. Costs will be apportioned to Battle Ground and the District according to the Salmon Creek Treatment Plant and Outfall Phase 5 allocated capacity of 3.96 mgd (22.6%) for Battle Ground, and 13.54 mgd (77.4%) for the District.

Safety and Security. A new HVAC system will reduce risk of fire or electrical hazards due to outdated components. This project does not affect ongoing security of the Operations Building.

Comply with Regulations and Alliance Commitments. Staff will be able to meet the laboratory's temperature compliance more easily with this new system and save money on energy costs moving forward.

Promotes Efficiency. The preferred variable refrigerant flow (VRF) system is four times more efficient than equivalent heat pumps that would replace the current system in-kind. Installing energy recovery ventilation (ERV) devices will further reduce the heating required for the HVAC to perform.

Photos:



Existing Boiler



Existing Laboratory Makeup Air Unit

Budget Information:

Project Cost Estimate		
Total Project Cost:	$2,000,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Class 1	
Project Cost Allocation		
Battle Ground:	22.6%	$450,000
District:	77.4%	$1,550,000

Schedule Information:

Activity	Year
Planning	2023
Permitting	2025
Real Property/ROW	NA
Design	2024-2025
Bid	2026
Construction	2026-2027

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

CO

Project Name: SCTP Influent Flow Meter Replacements
Project Number: RA07-27-1
Prioritization Score: Carryover
Form Prepared/Updated: May 2026

Project Type: Existing Asset – Repair ☐
Existing Asset – Replacement ☒
New Asset – Capacity ☐
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. This project replaces the two influent flow meters at the Salmon Creek Treatment Plant (SCTP). The existing flow meters electronics are obsolete and not supported by the manufacturer. Reliability of these meters is critical to the plant operation.

Scope of Work. The project will develop a flow bypass plan and replace the two influent flow meters with similar technology.

Cost Allocation. Project cost allocations are based on the year that the project is bid for construction. Costs will be apportioned to Battle Ground and the District according to the Salmon Creek Treatment Plant and Outfall Phase 5 allocated capacity of 3.96 mgd (22.6%) for Battle Ground, and 13.54 mgd (77.4%) for the District.

Safety and Security. No major changes to safety and security are expected.

Comply with Regulations and Alliance Commitments. This project will significantly enhance service reliability and support the ability to meet current and future regulatory requirements.

Promotes Efficiency. This project will reduce staff maintenance time by addressing data integrating issues and avoid process related issues due to data interruptions.

Photos:



Existing Influent Flow Sensors



Existing Digital Monitors

Budget Information:

Project Cost Estimate		
Total Project Cost:	$1,300,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Class 2	
Project Cost Allocation		
Battle Ground:	22.6%	$290,000
District:	77.4%	$1,010,000

Schedule Information:

Activity	Year
Planning	2025
Permitting	2025-2026
Real Property/ROW	NA
Design	2025-2027
Bid	2027
Construction	2028

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

CO

Project Name: SCTP Aeration Equipment Replacement
Project Number: RA07-27-2
Prioritization Score: Carryover
Form Prepared/Updated: May 2026

Project Type:
Existing Asset – Repair ☐
Existing Asset – Replacement ☒
New Asset – Capacity ☐
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. Replace aging positive displacement (PD) blowers (which are nearing the end of their useful life) for energy efficiency, process control, and reliability and to reduce ongoing corrective maintenance.

Scope of Work. This project includes replacing four PD blowers with new blower technology (high-speed, gearless, single stage. "turbo" centrifugal). It will also add monitoring, including multi-point dissolved oxygen monitoring, and replacing air piping valves and actuators, as necessary.

Cost Allocation. Project cost allocations are based on the year that the project is bid for construction. Costs will be apportioned to Battle Ground and the District according to the Salmon Creek Treatment Plant and Outfall Phase 5 allocated capacity of 3.96 mgd (22.6%) for Battle Ground, and 13.54 mgd (77.4%) for the District.

Safety and Security. No major changes to safety and security are expected. There is a slight improvement in public health and safety.

Comply with Regulations and Alliance Commitments. New blowers will provide operational flexibility that is not achievable with the existing positive displacement blowers resulting in reduced energy usage. This results in more efficient blower operation and process control. The new blowers will also reduce corrective maintenance costs and staff resources.

Promotes Efficiency. Operational efficiencies will be gained through operational flexibility, reduced resources, and energy needs.

Photos:



Existing Positive Displacement Blower *Example Turbo Blower*

Budget Information:

Project Cost Estimate		
Total Project Cost:	$3,100,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Class 2	
Project Cost Allocation		
Battle Ground:	22.6%	$700,000
District:	77.4%	$2,400,000

Schedule Information:

Activity	Year
Planning	2025
Permitting	2026
Real Property/ROW	NA
Design	2026-2027
Bid	2027
Construction	2028-2029

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

CO

Project Name: SCTP Groundwater Well #1 Replacement
Project Number: RA07-29-1
Prioritization Score: Carryover
Form Prepared/Updated: May 2026

Project Type:
Existing Asset – Repair ☐
Existing Asset – Replacement ☒
New Asset – Capacity ☐
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. If the existing well #1 at the Salmon Creek Treatment Plant (SCTP) fails, replace it with a new well to ensure there is sufficient redundancy for potable water supply.

Scope of Work. Install a 150-foot, 12-inch well with a 10-hp submersible 6-inch well pump – or equivalent to match the demand served by well #1 – to serve as the second water supply well at the SCTP.

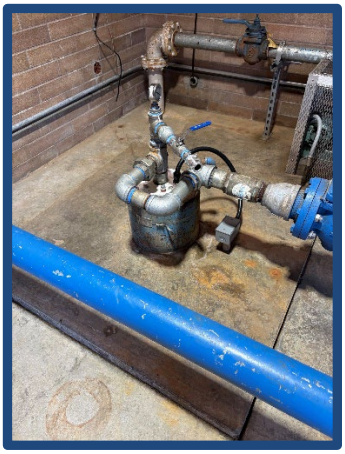
Cost Allocation. Project cost allocations are based on the year that the project is bid for construction. Costs will be apportioned to Battle Ground and the District according to the Salmon Creek Treatment Plant and Outfall Phase 5 allocated capacity of 3.96 mgd (22.6%) for Battle Ground, and 13.54 mgd (77.4%) for the District.

Safety and Security. No major changes to safety and security are expected.

Comply with Regulations and Alliance Commitments. This project is anticipated to greatly improve service reliability by replacing aged equipment and electrical systems.

Promotes Efficiency. Efficiencies are expected through the use of new technology and will fully optimize the use of existing facilities.

Photos:



Existing Well #1



Replacement Well similar to Existing Well #2

Budget Information:

Project Cost Estimate		
Total Project Cost:	$650,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Class 2	
Project Cost Allocation		
Battle Ground:	22.6%	$150,000
District:	77.4%	$500,000

Schedule Information:

Activity	Year
Planning	2025
Permitting	2025-2026
Real Property/ROW	N/A
Design	2025-2026
Bid	2029
Construction	2029

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

#1

Project Name: SCTP Solids Hopper Controls Replacement
Project Number: RA07-28-1
Prioritization Score: 58.8
Form Prepared/Updated: May 2026

Project Type:
Existing Asset – Repair ☐
Existing Asset – Replacement ☒
New Asset – Capacity ☐
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. To replace the obsolete solids hopper weight measuring control system.

Scope of Work. The project replaces the solids hopper controls, including the cake loadout control panel, load cells that measure the weight in the hopper, related instrumentation including the hopper level indicator and high-high level switch, the discharge gate and discharge gate actuator, air receiver tank, and various air valves.

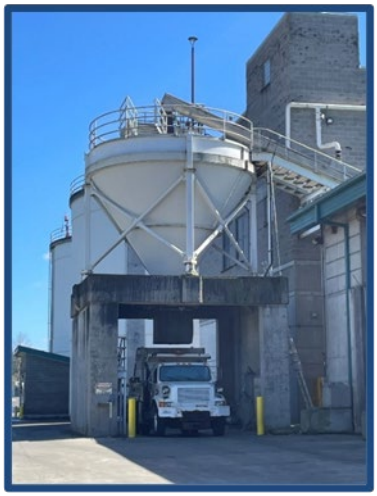
Cost Allocation. Project cost allocations are based on the year that the project is bid for construction. Costs will be apportioned to Battle Ground and the District according to the Salmon Creek Treatment Plant and Outfall Phase 5 allocated capacity of 3.96 mgd (22.6%) for Battle Ground, and 13.54 mgd (77.4%) for the District.

Safety and Security. Project maintains safety and security by replacing aged safety related controls.

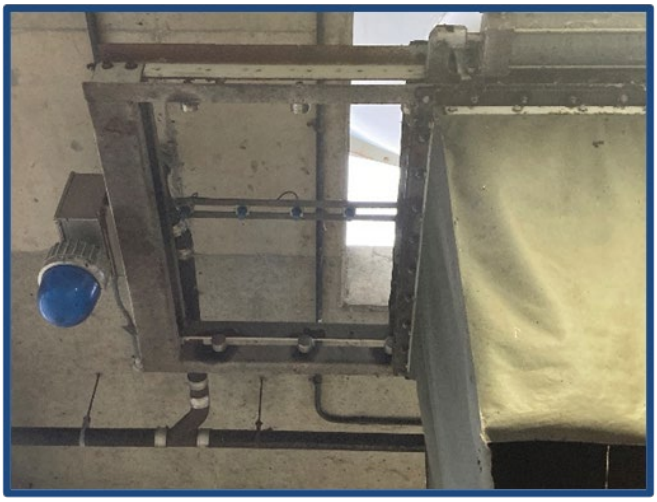
Comply with Regulations and Alliance Commitments. Accurate biosolids weights are important to the overall biosolids application program and related permit requirements. This project is anticipated to improve hopper service reliability and reduce ongoing maintenance costs.

Promotes Efficiency. The use of new technology is expected to provide more efficient loadout of hauling trucks.

Photos:



Existing Solids Hopper - Overall



Existing Solids Hopper – Gate Position Proximity Switches

Budget Information:

Project Cost Estimate		
Total Project Cost:	$990,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Class 4	
Project Cost Allocation		
Battle Ground:	22.6%	$220,000
District:	77.4%	$770,000

Schedule Information:

Activity	Year
Planning	2026
Permitting	NA
Real Property/ROW	NA
Design	2027
Bid	2028
Construction	2028

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

#2

Project Name: SCTP Potable Water Supply Replacement
Project Number: RA07-30-1
Prioritization Score: 58.6
Form Prepared/Updated: May 2026

Project Type:
Existing Asset – Repair ☐
Existing Asset – Replacement ☒
New Asset – Capacity ☐
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. Replace existing water supply system that is reliant on two older wells with a piped system with water supplied by Clark Public Utilities to and through the Salmon Creek Treatment Plant (SCTP) site.

Scope of Work. Project includes extending a Clark Public Utilities water line to and through the SCTP to replace the existing water supply system. Construction of this new piped system will occur in two segments to match investment with the grown water demand. The first part will install an 8" water line into the SCTP from the east, a water meter, a new hydrant, and appurtenances to connect to the existing pipe network in the plant. The second part will align with the SCTP Phase 7 upgrades and extend this 8" line though the plant and back to the existing water line on NW 59th Avenue. The second part will also decommission the existing two wells. For additional information related to this project, see the *SCTP Potable Water Supply Evaluation Report*, Jacobs 2026.

Cost Allocation. Project cost allocations are based on the years that the project is bid for construction. Costs will be apportioned to Battle Ground and the District according to the treatment plant allocated total capacity following the completion of SCTP Phases 5 and 6. See the Supplemental Information section (reverse side) for additional detail.

Safety and Security. No major changes to safety and security are expected.

Comply with Regulations and Alliance Commitments. This project is anticipated to greatly improve service reliability by replacing aged equipment and electrical systems.

Promotes Efficiency. Efficiencies are expected through the use of new technology and will fully optimize the use of existing facilities.

Photos:



Existing SCTP Well House for Potable Water Supply



Existing Hydrant at SCTP

Budget Information:

Project Cost Estimate		
Total Project Cost:	$6,400,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Class 5	
Project Cost Allocation		
Battle Ground:	22.1%	$1,400,000
District:	77.9%	$5,000,000

Schedule Information:

Activity	Year
Planning	2026
Permitting	2029-2030 and 2034
Real Property/ROW	2028-2034
Design	2028-2030 and 2034
Bid	2030 and 2034
Construction	2031-2032 and 2035-2036

Supplemental Information:

SCTP UV System Replacement
Project-Specific Cost Allocation Based on Responsibility for Contributing Factors

Contributing Factor	RESPONSIBILITY ALLOCATION: Contributing Factor (percent)	RESPONSIBILITY ALLOCATION: Battle Ground Share (percent)	RESPONSIBILITY ALLOCATION: District Share (percent)	COST ALLOCATION: Battle Ground Share (percent)	COST ALLOCATION: District Share (percent)
1. Existing Capacity – R&R Allocation (Phase 5)	41.7%	22.6%	77.4%	9.4%	32.3%
2. Existing Capacity – R&R Allocation (Phase 6)	58.3%	21.7%	78.3%	12.7%	45.6%
TOTAL	100.0%			**22.1%**	**77.9%**

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

#3

Project Name: SCTP Aeration Blower #5 Improvement
Project Number: RA07-28-2
Prioritization Score: 48.6
Form Prepared/Updated: May 2026

Project Type:
Existing Asset – Repair ☐
Existing Asset – Replacement ☒
New Asset – Capacity ☐
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. To improve the operational range of Blower #5 and properly integrate it with the other three blowers that supply air to Aeration Basins #5, 6, and 7.

Scope of Work. The single-stage centrifugal geared blower, Blower #5, was installed in the 1990s and has low operating hours due to its limitation in the turndown capability. The scope of work for this project includes replacing the volute, adding inlet guide vanes, and upgrading the SCADA system for overall blower operations.

Cost Allocation. Project cost allocations are based on the year that the project is bid for construction. Costs will be apportioned to Battle Ground and the District according to the Salmon Creek Treatment Plant and Outfall Phase 5 allocated capacity of 3.96 mgd (22.6%) for Battle Ground, and 13.54 mgd (77.4%) for the District.

Safety and Security. No major changes to safety and security are expected.

Comply with Regulations and Alliance Commitments. Blower operations will provide more reliable service of Blower #5 and, thus, offer more redundancy for a wider range of conditions to meet regulatory requirements.

Promotes Efficiency. These Blower #5 improvements allow it to function efficiently in a broader range of operating conditions and better incorporated into the overall blower system, which reduces the runtime hours of other units moving forward and extend their service lives.

Photos:



Existing Aeration Basin Blower #5



Blower Inlet Guide Vane

Budget Information:

Project Cost Estimate		
Total Project Cost:	$250,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Class 2	
Project Cost Allocation		
Battle Ground:	22.6%	$60,000
District:	77.4%	$190,000

Schedule Information:

Activity	Year
Planning	2026
Permitting	2027
Real Property/ROW	N/A
Design	2027
Bid	2028
Construction	2028

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

#4

Project Name: SCTP Influent Screen Replacement
Project Number: RA07-30-2
Prioritization Score: 39.8
Form Prepared/Updated: May 2026

Project Type:
Existing Asset – Repair ☐
Existing Asset – Replacement ☒
New Asset – Capacity ☐
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. The project will replace the two existing mechanically cleaned influent screens and compactors to reduce the labor hours required to maintain the operation of the aging screens.

Scope of Work. The project will install two new mechanically cleaned influent screens to replace the existing units, which were installed in 1998 as part of the Salmon Creek Treatment Plant (SCTP) Phase 3 Expansion. The equipment is aging, and a rebuild project was performed in 2017 to extend the life of the equipment until replacement. In addition to the screens, new screening compactors are required. The current schedule is based on coupling the replacement with the addition of a third bar screen, programmed as part of the Phase 6 Expansion program for efficiency and system compatibility.

Cost Allocation. Project cost allocations are based on the year that the project is bid for construction. Costs will be apportioned to Battle Ground and the District according to the Salmon Creek Treatment Plant and Outfall Phase 5 allocated capacity of 3.96 mgd (22.6%) for Battle Ground, and 13.54 mgd (77.4%) for the District. For additional information related to this project, see the *Salmon Creek Wastewater Treatment Plant Maintenance Assessment, CH2M HILL, March 2016.*

Safety and Security. No major changes to safety and security are expected.

Comply with Regulations and Alliance Commitments. This project will somewhat enhance service reliability. It will help meet regulatory requirements and address obsolete or failing equipment.

Promotes Efficiency. This project will optimize the use of existing facilities. It will also create operations efficiency by saving on resource requirements.

Photos:



Existing Influent Screens – Front Side



Existing Influent Screens – Back Side

Budget Information:

Project Cost Estimate		
Total Project Cost:	$3,200,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Class 3	
Project Cost Allocation		
Battle Ground:	22.6%	$700,000
District:	77.4%	$2,500,000

Schedule Information:

Activity	Year
Planning	2025-2026
Permitting	2028-2030
Real Property/ROW	NA
Design	2028-2030
Bid	2030
Construction	2031-2032

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

#5

Project Name: SCTP Thickening Equipment Replacement
Project Number: RA07-30-3
Prioritization Score: 39.2
Form Prepared/Updated: May 2026

Project Type:
Existing Asset – Repair ☐
Existing Asset – Replacement ☒
New Asset – Capacity ☐
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. Replacement of the existing thickening system (two gravity belt thickeners), control panels, PLC integration, and associated pipes and pumping systems. The Gravity Belt Thickeners (GBT), originally installed in Phase 2 and 3 respectively, are operating beyond their 30-year expected useful life.

Scope of Work. This project encompasses the replacement of Gravity Belt Thickeners (GBT) 1 and 2, control panels and PLC integration. The scope of this project will include procurement of new, 3-meter-wide thickening equipment and appurtenances, dismantling and removal of existing GBT, installation of new mechanical, electrical and instrumentation components, and integration with SCADA and PLC controllers.

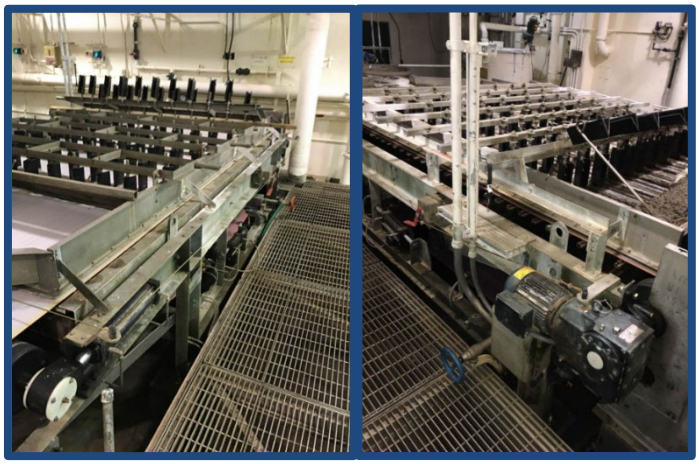
Cost Allocation. Project cost allocations are based on the year that the project is bid for construction. Costs will be apportioned to Battle Ground and the District according to the Salmon Creek Treatment Plant and Outfall Phase 5 allocated capacity of 3.96 mgd (22.6%) for Battle Ground, and 13.54 mgd (77.4%) for the District.

Safety and Security. No major changes to safety and security are expected.

Comply with Regulations and Alliance Commitments. This project will enhance service reliability and will address failed or obsolete assets.

Promotes Efficiency. This project is expected to optimize system efficiency and decrease corrective maintenance costs.

Photos:



Existing Gravity Belt Thickeners

Budget Information:

Project Cost Estimate		
Total Project Cost:	$7,700,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Class 5	
Project Cost Allocation		
Battle Ground:	22.6%	$1,700,000
District:	77.4%	$6,000,000

Schedule Information:

Activity	Year
Planning	2025-2026
Permitting	2029-2030
Real Property/ROW	NA
Design	2028-2030
Bid	2030
Construction	2031-2032

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

#6

Project Name: SCTP Grit System Replacement
Project Number: RA07-34-1
Prioritization Score: 37.6
Form Prepared/Updated: May 2026

Project Type:
Existing Asset – Repair ☐
Existing Asset – Replacement ☒
New Asset – Capacity ☐
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. Rehabilitation and retrofit of aged grit removal systems.

Scope of Work. Rehabilitation of the Grit System includes the cyclone, separator, washing, and compacting systems. Replacement decision for existing system components will be based on final inspection of grit chamber basin for concrete repair and mechanical operations, including isolation gates and actuators, valves, pumps, motors, and piping. Complete scope of the grit rehabilitation will rely on the evaluation and selection of retrofit options to improve grit removal performance. Scope does not include replacement of grit basins.

Cost Allocation. Project cost allocations are based on the year that the project is bid for construction. Costs will be apportioned to Battle Ground and the District according to the Salmon Creek Treatment Plant Phase 6 allocated capacity of 4.25 mgd (21.7%) for Battle Ground and 15.35 mgd (78.3%) for the District.

Safety and Security. No major changes to safety and security are expected.

Comply with Regulations and Alliance Commitments. The project supports one or more regulatory requirements. The project improves service reliability.

Promotes Efficiency. Some efficiencies are expected from this project. It will somewhat improve operational efficiency, and it uses new technology to realize efficiencies.

Photos:



Existing Grit Classifier and Conveyor System

Budget Information:

Project Cost Estimate		
Total Project Cost:	$3,600,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Class 3	
Project Cost Allocation		
Battle Ground:	21.7%	$780,000
District:	78.3%	$2,820,000

Schedule Information:

Activity	Year
Planning	2026
Permitting	2033-2034
Real Property/ROW	NA
Design	2032-2034
Bid	2034
Construction	2035-2036

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

#7

Project Name: RTP Secondary Clarifier Rehabilitation
Project Number: RA08-27-1
Prioritization Score: 33.0
Form Prepared/Updated: May 2026

Project Type:
Existing Asset – Repair ☒
Existing Asset – Replacement ☐
New Asset – Capacity ☐
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. Keep mechanisms of Ridgefield Treatment Plant (RTP) Secondary Clarifier operational to ensure permit compliance for remainder of plant life.

Scope of Work. These repairs involve re-coating clarifier arms, blasting and re-coating launders, replacing the seals between weirs and launders, and re-sealing the weirs.

Cost Allocation. Work specifically at the RTP will be allocated fully to the District.

Safety and Security. No major changes to safety and security are expected.

Comply with Regulations and Alliance Commitments. This project preserves secondary clarifier capacity and operations necessary to meet its permit requirements.

Promotes Efficiency. This project extends the service life of existing assets by increasing its effectiveness and maintaining its intended functionality while the plant remains in operation.

Photo:



RTP Secondary Clarifier

Budget Information:

Project Cost Estimate		
Total Project Cost:	$150,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Class 3	
Project Cost Allocation		
Battle Ground:	0%	$0
District:	100%	$150,000

Schedule Information:

Activity	Year
Planning	2026
Permitting	NA
Real Property/ROW	NA
Design	2027
Bid	2027
Construction	2028

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

#8

Project Name: SCTP Secondary Clarifier Rehabilitation
Project Number: RA07-30-3
Prioritization Score: 27.0
Form Prepared/Updated: May 2026

Project Type:
Existing Asset – Repair ☒
Existing Asset – Replacement ☒
New Asset – Capacity ☐
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. Ongoing rehabilitation of Secondary Clarifiers at Salmon Creek Treatment Plant (SCTP).

Scope of Work. This program rehabilitates a secondary clarifier at SCTP every five years.

Part 1, Secondary Clarifier 1 rehab includes the following improvements: Replace submersible RAS pumps with Flygt pumps, replace the scum pumps and appurtenances, sandblast and re-coat mechanism, re-seal weirs, install new launder covers, sandblast and re-coat concrete tank, and replace drive mechanism.

Subsequent parts will include similar work for Secondary Clarifiers 3, 4, and 5.

Cost Allocation. Project cost allocations are based on the year that the project is bid for construction. Costs for Part 1 will be apportioned to Battle Ground and the District according to the Salmon Creek Treatment Plant and Outfall Phase 5 allocated capacity of 3.96 mgd (22.6%) for Battle Ground, and 13.54 mgd (77.4%) for the District. Costs for subsequent parts are to be based on the cost split relative to future plant capacity upgrades.

Safety and Security. No changes to safety and security.

Comply with Regulations and Alliance Commitments. This project preserves secondary clarifier capacity and operations necessary to meet its permit requirements.

Promotes Efficiency. This project extends the service life of existing assets by increasing its effectiveness and reducing maintenance with the installation of launders.

Photos:



Existing Secondary Clarifier 1



Existing Secondary Clarifiers 3 & 4

Budget Information (20-year Program):

Program Cost Estimate		
Total Project Cost:	$1,500,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Class 5	
Program Cost Allocation		
Battle Ground:	22.6%	$350,000
District:	77.4%	$1,150,000

Schedule Information:

Activity	Year
Planning	2029, 2034, 2039, 2044
Permitting	NA
Real Property/ROW	NA
Design	2029, 2034, 2039, 2044
Bid	2030, 2035, 2040, 2045
Construction	2030, 2035, 2040, 2045

Budget Information (2027-2028):

Project Cost Estimate		
Total Project Cost:	$600,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Class 4	
Project Cost Allocation		
Battle Ground:	22.6%	$140,000
District:	77.4%	$460,000

Schedule Information:

Activity	Year
Planning	2029
Permitting	NA
Real Property/ROW	NA
Design	2029
Bid	2030
Construction	2030

Supplemental Information:

SCTP Secondary Clarifier Rehabilitation Cost Summary By Part

Regional Asset	Project	Cost Estimate	Cost Allocation		Construction
			Battle Ground	District	
Salmon Creek Treatment Plant	Secondary Clarifier Rehab - Part 1	$600,000	22.6%	77.4%	2030
Salmon Creek Treatment Plant	Secondary Clarifier Rehab - Part 2	$300,000	21.7%	78.3%	2035
Salmon Creek Treatment Plant	Secondary Clarifier Rehab - Part 3	$300,000	21.4%	78.6%	2040
Salmon Creek Treatment Plant	Secondary Clarifier Rehab - Part 4	$300,000	21.4%	78.6%	2045
Total Program		**$1,500,000**			

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

NS

Project Name: Battle Ground Force Main / Eaton Road Relocation
Project Number: RA09-27-1
Prioritization Score: Not Scored (Relocation)
Form Prepared/Updated: April 2026

Project Type:
Existing Asset – Repair ☐
Existing Asset – Replacement ☒
New Asset – Capacity ☐
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. This project will relocate portions of the Battle Ground Force Main (BGFM) as necessary to accommodate the City of Battle Ground Public Works' SW Eaton Boulevard Road Improvement project.

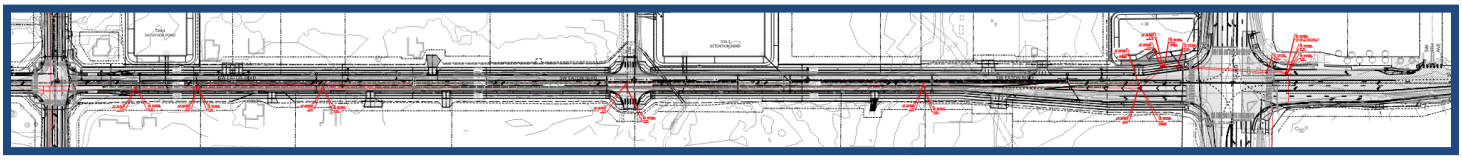
Scope of Work. The BGFM (1993) conveys flow from the Battle Ground Pump Station to the Alliance-owned Klineline Interceptor. The City of Battle Ground is proposing a road improvement project along SW Eaton Boulevard from SW 20th Avenue to SW 9th Avenue, and the BGFM passes through the entirety of the project corridor. Conflicts with the City's proposed storm and sewer systems may necessitate relocation of approximately 300 LF of the existing 16-inch PVC BGFM. The BGFM would be kept in service while the new line is installed and tested. To allow for connection between the existing and new lines, flows would be temporarily diverted into the City of Battle Ground's Equalization Basin. If relocation is necessary, the City would design the BGFM relocation and include the work as a separate bid schedule within the overall road improvement construction contract.

Cost Allocation. Project cost allocations are based on the year that the project is bid for construction. Costs will be apportioned to Battle Ground and the District according to the pipe's allocated capacity of 3.44 mgd (78.2%) for Battle Ground and 0.96 mgd (21.8%) for the District.

Photos:



Battle Ground Force Main along SW Eaton Blvd from SW 20th Ave to SW 9th Ave



Proposed road improvements along SW Eaton Blvd from SW 20th Ave to SW 9th Ave

Budget Information:

Project Cost Estimate		
Total Project Cost:	$330,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition	Class 3	
Project Cost Allocation		
Battle Ground:	78.2%	$260,000
District:	21.8%	$70,000
Total:	100.0%	$330,000

Schedule Information:

Activity	Year
Planning	2024
Permitting	2025-2027
Right-of-Way	2024-2027
Design	2024-2027
Bid	2027
Construction	2028

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

NS

Project Name: SCADA Server Replacement
Project Number: PS-29-1
Prioritization Score: Not Scored (Program)
Form Prepared/Updated: May 2026

Project Type: Existing Asset – Repair ☐
Existing Asset – Replacement ☒
New Asset – Capacity ☐
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. The SCADA Operating Technology Replacement Program will evaluate and replace hardware and software every eight years to provide system reliability while minimizing cybersecurity risks.

Scope of Work. The work includes completing a SCADA system evaluation and recommendations every eight years. At a minimum, the operating system replacements will include replacing the SCADA server, disaster recovery server, firewalls, modems, operating system, workstations and thin clients, and any remote connection devices. Implementation will include SCADA/HMI software updates and Programmable Logic Controller (PLC) firmware updates to align with the new operating system. The system evaluation may identify other required improvements such as technology and cybersecurity risks that develop over time.

Cost Allocation. Project cost allocations are based on the year that the project is bid for construction. The first replacement will be apportioned to Battle Ground and the District according to the Salmon Creek Treatment Plant and Outfall Phase 5 allocated capacity of 3.96 mgd (22.6%) for Battle Ground, and 13.54 mgd (77.4%) for the District. Costs for subsequent parts are to be based on the cost split relative to future plant capacity upgrades.

Safety and Security. Program will continue to minimize cybersecurity risks.

Comply with Regulations and Alliance Commitments. Maintaining current operating technology meets the Alliance commitment to service reliability.

Promotes Efficiency. Efficiencies are gained through maintaining current hardware and software that utilizes current technology that is supported by manufacturers.

Photos:



Existing Operational Technology Server Room



SCADA Control Room

Budget Information:

Project Cost Estimate		
Total Project Cost:	$2,100,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Class 4	
Project Cost Allocation		
Battle Ground:	22.6%	$470,000
District:	77.4%	$1,630,000

Schedule Information:

Activity	Year
Planning	2027, 2035, 2043
Permitting	NA
Real Property/ROW	NA
Design	2029, 2037, 2045
Bid	2029, 2037, 2045
Construction	2030, 2038, 2046

NS

Project Name: System-wide Instrumentation Replacement
Project Number: PS-27-1
Prioritization Score: Not Scored (Program)
Form Prepared/Updated: May 2026

Project Type: Existing Asset – Repair ☐
Existing Asset – Replacement ☒
New Asset – Capacity ☐
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. This project will systematically replace instrumentation across all Alliance assets. This comprehensive replacement will address aging and obsolete instrumentation, mitigate maintenance challenges related to legacy equipment, and leverage current technologies to improve data collection, analysis, and reporting.

Scope of Work. The scope encompasses the replacement of 634 aging instrumentation infrastructure, including advanced level sensors, gas detection systems, flow meters, pressure transmitters, and analytical instruments, throughout all treatment processes. This strategic upgrade will integrate with the existing SCADA architecture. The project will be executed annually focusing on the highest risk assets first. This will be a 7-year phased program allowing for approximately 90 instruments to be replaced annually. Estimates are based on the assumption that major flow meters of approximately 12" or greater for liquid service and 20" or greater for gas/air service will be replaced by a Contractor, which accounts for approximately 14% of the total cost. The remaining instrumentations will be replaced by District staff.

Investment for 2027-2028 Biennium. Replace 59 instruments at Salmon Creek Treatment Plant (SCTP). Most of these instruments have not been replaced since they were installed during SCTP Phase 3 (1997-1999) and are past their useful life. Costs for this scope assume replacement work will be performed by District staff.

Cost Allocation. Costs will be apportioned to Battle Ground and the District according to the tables included in the Supplemental Information section.

Photos:



Flow Meter



Gas Meter – Lower Explosive Limit

Budget Information (20-year Program):

Program Cost Estimate		
Program Total Cost:	$14,100,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Class 5	
Program Cost Allocation		
Battle Ground:	22.6%	$3,200,000
District:	77.4%	$10,900,000

Schedule Information:

Activity	Year
Planning	Ongoing
Permitting	As Needed
Real Property/ROW	NA
Design	As Needed
Bid	As Needed
Construction	2027-2046

Budget Information (2027-2028):

Biennium Cost Estimate		
Total Biennium Cost:	$600,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Class 5	
Project Cost Allocation		
Battle Ground:	22.6%	$140,000
District:	77.4%	$460,000

Schedule Information:

Activity	Year
Planning	2026
Permitting	NA
Real Property/ROW	NA
Design	2027
Bid	2027
Construction	2028

Supplemental Information:

Cost Splits By Regional Asset and By Phase

Regional Asset	Cost Split Phase	Cost Allocation		
		Battle Ground	District	Construction
Salmon Creek Treatment Plant	Phase 5	22.6%	77.4%	2027-2032
Salmon Creek Treatment Plant	Phase 6	21.5%	78.5%	2033-2036
Salmon Creek Treatment Plant	Phase 7	21.3%	78.7%	2037-2046
117th Street Pump Station	Current	24.8%	75.2%	2027-2030
117th Street Pump Station	Post-Expansion (of 117th)	22.0%	78.0%	2031-2046
36th Avenue Pump Station	Current	24.8%	75.2%	2027-2046
Ridgefield Treatment Plant	Current	0%	100%	2027-2046

Note: These cost allocations are based on current projected timelines for capacity expansion phases and thus are subject to change based on actual construction completion and increased capacity recognition by Department of Ecology.

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

NS

Project Name: System-wide Valving Replacement
Project Number: PS-27-2
Prioritization Score: Not Scored (Program)
Form Prepared/Updated: May 2026

Project Type:
Existing Asset – Repair ☐
Existing Asset – Replacement ☒
New Asset – Capacity ☐
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. This project will systematically replace valves across all Alliance assets, beginning with valves near the end of their useful life. Valves have an expected 30-year lifespan; a programmatic approach will replace valves on a rotating basis, starting with valves installed 25 years ago or more.

Scope of Work. The program will replace 15-16 valves per year depending on size and cost, beginning with valves near the end of their useful life. For older valves, surrounding piping determined to be in poor condition will be replaced along with the valve. The valve program is proposed to be ongoing and provide for replacement of valves every 30 years. A detailed assessment of valve groups during 2027-2028 biennium will refine and identify future valve replacements. Currently, 11 valves are past useful life and approximately 200 were installed 25 years ago or more.

Investment for 2027-2028 Biennium. Replace 7 valves including 4 at the Salmon Creek Treatment Plant (SCTP) and 3 at 36th Avenue Pump Station. These assets have been identified by District staff for their poor condition or difficulty to operate. Costs for this biennium assume replacement.

Cost Allocation. Costs will be apportioned to Battle Ground and the District according to the tables included in the Supplemental Information section.

Photos:



Example Plug Valve



Example Pinch Valve

Budget Information (20-year Program):

Program Cost Estimate		
Program Total Cost:	$4,700,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Class 5	
Program Cost Allocation		
Battle Ground:	22.6%	$1,100,000
District:	77.4%	$3,600,000

Schedule Information:

Activity	Year
Planning	Ongoing
Permitting	As Needed
Real Property/ROW	NA
Design	As Needed
Bid	As Needed
Construction	2027-2046

Budget Information (2027-2028):

Biennium Cost Estimate		
Total Biennium Cost:	$230,000	
Basis of Estimate -		
Year Completed:	2026	
Project Definition:	Class 5	
Project Cost Allocation		
Battle Ground:	22.6%	$50,000
District:	77.4%	$180,000

Schedule Information:

Activity	Year
Planning	2026
Permitting	NA
Real Property/ROW	NA
Design	NA
Bid	2027
Construction	2028

Supplemental Information:

Cost Summary By Asset for 2027-2028 Budget

		Allocation %		Cost Splits		
Regional Asset	**Cost Estimate**	**Battle Ground**	**District**	**Battle Ground**	**District**	**Construction**
Salmon Creek Treatment Plant	$150,000	22.6%	77.4%	$30,000	$120,000	2027-2028
36th Avenue Pump Station	$80,000	24.8%	75.2%	$20,000	$60,000	2027-2028
Total 2-Year Program	**$230,000**			**$50,000**	**$180,000**	

Note: Cost Allocation will change over time with plant or pump station expansion projects. The allocations listed above apply for the 2027-2028 budget period.

Cost Splits By Regional Asset and By Phase

		Cost Allocation		
Regional Asset	**Cost Split Phase**	**Battle Ground**	**District**	**Construction**
Salmon Creek Treatment Plant	Phase 5	22.6%	77.4%	2027-2032
Salmon Creek Treatment Plant	Phase 6	21.5%	78.5%	2033-2036
Salmon Creek Treatment Plant	Phase 7	21.3%	78.7%	2037-2046
117th Street Pump Station	Current	24.8%	75.2%	2027-2030
117th Street Pump Station	Post-Expansion (of 117th)	22.0%	78.0%	2031-2046
36th Avenue Pump Station	Current	24.8%	75.2%	2027-2046
Ridgefield Treatment Plant	Current	0%	100%	2027-2046

Note: These cost allocations are based on current projected timelines for capacity expansion phases and thus are subject to change based on actual construction completion and increased capacity recognition by Department of Ecology.

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

NS

Project Name: System-wide VFD Replacement
Project Number: PS-27-3
Prioritization Score: Not Scored (Program)
Form Prepared/Updated: May 2026

Project Type: Existing Asset – Repair ☐
Existing Asset – Replacement ☒
New Asset – Capacity ☐
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. This project will systematically replace Variable Frequency Drives (VFDs) throughout all Alliance assets. This comprehensive upgrade will replace aging and obsolete drives with energy-efficient models to integrate with the plant's SCADA system.

Scope of Work. Project entails the replacement of aging or obsolete variable frequency drives throughout the Alliance system. For a given budget period, the VFDs will be evaluated to determine what assets need replacement and what ancillary equipment will be impacted. The scope encompasses the removal and replacement of legacy VFD systems with modern, high-efficiency units across all relevant process areas. For planning purposes, this will be a phased project allowing $310,000 for up to 8 VFDs to be replaced annually, assuming a 10-year service life.

Investment for 2027-2028 Biennium. Replace four VFDs (three at the Salmon Creek Treatment Plant and one at 36th Avenue Pump Station), control panels, and upgraded communications to support system standardization. These assets were identified primarily through the District's asset management program (scoring for age, condition, risk of failure), and specific scope was determined by plant staff review. Due to control panel replacement scope, this work will need to be performed by a Contractor.

Cost Allocation. Costs will be apportioned to Battle Ground and the District according to the tables included in the Supplemental Information section.

Photo:



Example VFD Panel Interior



Example VFD Set

Budget Information (20-year Program):

Program Cost Estimate		
Program Total Cost:	$5,400,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Class 2	
Program Cost Allocation		
Battle Ground:	22.6%	$1,200,000
District:	77.4%	$4,200,000

Schedule Information:

Activity	Year
Planning	Ongoing
Permitting	As Needed
Real Property/ROW	NA
Design	As Needed
Bid	Ongoing
Construction	2027-2046

Budget Information (2027-2028):

Biennium Cost Estimate		
Total Biennium Cost:	$160,000	
Basis of Estimate -		
Year Completed:	2026	
Project Definition:	Class 2	
Project Cost Allocation		
Battle Ground:	22.6%	$40,000
District:	77.4%	$120,000

Schedule Information:

Activity	Year
Planning	2026
Permitting	NA
Real Property/ROW	NA
Design	NA
Bid	2027
Construction	2027-2028

Supplemental Information:

Cost Summary By Asset for 2027-2028 Budget

Regional Asset	Cost Estimate	Allocation %		Cost Splits		
		Battle Ground	District	Battle Ground	District	Construction
Salmon Creek Treatment Plant	$140,000	22.6%	77.4%	$30,000	$110,000	2027-2028
36th Avenue Pump Station	$20,000	24.8%	75.2%	$5,000	$15,000	2027-2028
Total 2-Year Program	**$160,000**			**$35,000**	**$125,000**	

Note: Cost Allocation will change over time with plant or pump station expansion projects. The allocations listed above apply for the 2027-2028 budget period.

Cost Splits By Regional Asset and By Phase

Regional Asset	Cost Split Phase	Cost Allocation		
		Battle Ground	District	Construction
Salmon Creek Treatment Plant	Phase 5	22.6%	77.4%	2027-2032
Salmon Creek Treatment Plant	Phase 6	21.5%	78.5%	2033-2036
Salmon Creek Treatment Plant	Phase 7	21.3%	78.7%	2037-2046
117th Street Pump Station	Current	24.8%	75.2%	2027-2030
117th Street Pump Station	Post-Expansion (of 117th)	22.0%	78.0%	2031-2046
36th Avenue Pump Station	Current	24.8%	75.2%	2027-2046
Ridgefield Treatment Plant	Current	0%	100%	2027-2046

Note: These cost allocations are based on current projected timelines for capacity expansion phases and thus are subject to change based on actual construction completion and increased capacity recognition by Department of Ecology.

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

NS

Project Name: SCTP Solids Vessel Inspection and Repair
Project Number: PS-27-4
Prioritization Score: Not Scored (Program)
Form Prepared/Updated: May 2026

Project Type:
Existing Asset – Repair ☒
Existing Asset – Replacement ☐
New Asset – Capacity ☐
New Asset – Regulatory ☐
New Asset – Level of Service ☐

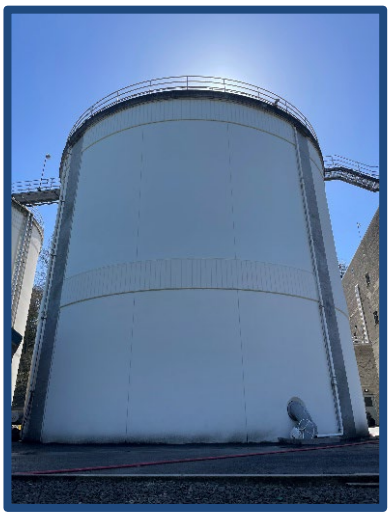
Project Definition:

Objective. Routinely clean and repair solids vessels at the Salmon Creek Treatment Plant (SCTP) in keeping with industry standard.

Scope of Work. The cleaning process involves the following steps for each digester and day tank: pumping down sludge level, removing all liquid, grit, scum, rags, sludge, and foreign material, and transporting and disposing of removed materials. Subsequently, Consultants will perform structural, vessel, and mechanical inspections of each vessel. Finally, a Contractor will complete repairs as needed based on findings from the inspections. Assumes SCTP will have two digesters through Phase 6 and four thereafter.

Cost Allocation. Project cost allocations are based on the year that the project is bid for construction. Costs will be apportioned to Battle Ground and the District according to the table included in the Supplemental Information section.

Photo:



SCTP Digester #2

Budget Information (20-year Program):

Program Cost Estimate		
Program Total Cost:	$8,400,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Class 3	
Program Cost Allocation		
Battle Ground:	22.6%	$1,900,000
District:	77.4%	$6,500,000

Schedule Information:

Activity	Year
Planning	2025-2026
Permitting	2027 and every 6 years thereafter
Real Property/ROW	N/A
Design	2026 and every 6 years thereafter
Bid	2027 and every 6 years thereafter
Construction	2027-2028 and every 6 years thereafter

Budget Information (2027-2028):

Biennium Cost Estimate		
Total Biennium Cost:	$1,500,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Class 3	
Project Cost Allocation		
Battle Ground:	22.6%	$340,000
District:	77.4%	$1,160,000

Schedule Information:

Activity	Year
Planning	2025-2026
Permitting	2027-2028
Real Property/ROW	NA
Design	2026
Bid	2026
Construction	2027-2028

Supplemental Information:

Program Cost Splits By Phase

		Allocation %s		Cost Splits		
Regional Asset - Phase	**Cost Estimate**	**Battle Ground**	**District**	**Battle Ground**	**District**	**Construction**
SCTP – Phase 5	$1,500,000	22.6%	77.4%	$340,000	$1,160,000	2027-2028
SCTP – Phase 6	$1,800,000	21.7%	78.3%	$390,000	$1,410,000	2033-2034
SCTP – Phase 7	$5,100,000	21.4%	78.6%	$1,090,000	$4,010,000	2039-2042 2045-2046
Total Program	**$8,400,000**			**$1,820,000**	**$6,580,000**	

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

NS

Project Name: System-wide HVAC Replacement
Project Number: BS-27-1
Prioritization Score: Not Scored (Program)
Form Prepared/Updated: May 2026

Project Type: Existing Asset – Repair ☐
Existing Asset – Replacement ☒
New Asset – Capacity ☐
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. Replace aging heating, ventilation, and air conditioning (HVAC) assets across the Alliance system in order to maintain functionality.

Scope of Work. The scope encompasses the replacement of aging HVAC assets, prioritized annually based on highest risk. A long-term sustaining annual amount of $400,000 has been budgeted based on a 20-year lifespan for HVAC assets, Jacobs' 2021 *Facility Condition Assessments*, as well as the current SCTP Operations Center HVAC Replacement project, are being utilized to inform this program.

Investment for the 2027-2028 Biennium. HVAC work for this biennium focuses on replacing components beyond their useful life in Buildings 10 and 47 at Salmon Creek Treatment Plant. These include the following assets in both buildings: make-up air units and exhaust fans. These components were prioritized based on District staff assessments, asset condition and age of the components (all nearing 30 years), and other attributes documented in Jacobs' 2026 *SCTP HVAC Replacements Evaluation*. Work will be performed by a contractor.

Cost Allocation. Costs will be apportioned to Battle Ground and the District according to the tables included in the Budget and Supplemental Information sections.

Photos:



SCTP Building 47 Rooftop Air Supply Unit



SCTP Corroded Supply Fan

Budget Information (20-year Program):

Program Cost Estimate		
Program Total Cost:	$7,400,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Class 4	
Program Cost Allocation		
Battle Ground:	22.6%	$1,700,000
District:	77.4%	$5,700,000

Schedule Information:

Activity	Year
Planning	Ongoing
Permitting	As Needed
Real Property/ROW	NA
Design	Ongoing
Bid	Ongoing
Construction	Ongoing

Budget Information (2027-2028):

Biennium Cost Estimate		
Total Biennium Cost:	$700,000	
Basis of Estimate -		
Year Completed:	2026	
Project Definition:	Class 4	
Project Cost Allocation		
Battle Ground:	22.6%	$160,000
District:	77.4%	$540,000

Schedule Information:

Activity	Year
Planning	2026
Permitting	NA
Real Property/ROW	NA
Design	2027
Bid	2027
Construction	2027-2028

Supplemental Information:

Cost Splits By Regional Asset and By Phase

		Cost Allocation		
Regional Asset	**Cost Split Phase**	**Battle Ground**	**District**	**Construction**
Salmon Creek Treatment Plant	Phase 5	22.6%	77.4%	2027-2032
Salmon Creek Treatment Plant	Phase 6	21.5%	78.5%	2033-2036
Salmon Creek Treatment Plant	Phase 7	21.3%	78.7%	2037-2046
117th Street Pump Station	Current	24.8%	75.2%	2027-2030
117th Street Pump Station	Post-Expansion (of 117th)	22.0%	78.0%	2031-2046
36th Avenue Pump Station	Current	24.8%	75.2%	2027-2046
Ridgefield Treatment Plant	Current	0%	100%	2027-2046

Note: These cost allocations are based on current projected timelines for capacity expansion phases and thus are subject to change based on actual construction completion and increased capacity recognition by Department of Ecology.

APPENDIX D

NEW REGIONAL ASSETS

CAPITAL IMPROVEMENT PROGRAM
PROJECT PROFILES

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

Project Name: 117th Street PS Capacity Upgrade
Project Number: RA04-30-1
Form Prepared/Updated: March 2026

Project Type: Existing Asset – Repair ☐
Existing Asset – Replacement ☒
New Asset – Capacity ☒
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. This project will increase the pumping capacity of the 117th Street Pump Station to meet the projected future capacity needs of the regional wastewater management system.

Scope of Work. The project will replace the five existing 250-HP raw sewage pumps, motors, and variable frequency drives with new equipment of larger size and capacity. The project will also install a second engine-generator to provide backup power service as required by Ecology. The pump station's structure and site are designed to accommodate this future upgrade. As a result, there is limited site or structure work required. The project is required to be complete before the system flows reach 34.2 mgd peak hour flow.

Cost Allocation. The cost allocation is based on increasing pumping capacity to match force main capacity for the facility. For additional information related to this project, see the *Klineline Pump Station and Force Main Project, Preliminary Design Report, Brown & Caldwell, April 2005*.

Photos *(if available)*:



Existing Pump Assembly | *Pump Station Structure* | *Existing Engine Generator*

Budget Information:

Project Cost Estimate		
Total Project Cost:	$19,200,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	5% design	(Class 5)
Project Cost Allocation		
Battle Ground:	22.0%	$4,200,000
District:	78.0%	$15,000,000

Schedule Information:

Activity	Year
Planning	2028
Permitting	2029
Real Property/ROW	N/A
Design	2029
Bid	2030
Construction	2030-2031

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

Project Name: SCTP Phase 5B (Treatment Plant) Expansion
Project Number: RA07-22-1
Form Prepared/Updated: March 2026

Project Type: Existing Asset – Repair ☐
Existing Asset – Replacement ☐
New Asset – Capacity ☒
New Asset – Regulatory ☒
New Asset – Level of Service ☒

Project Definition:

Objective. This project will provide an increase to Alliance Members' Allocated Capacity in the Salmon Creek Treatment Plant (SCTP) and address applicable regulatory and level of service requirements for the facility.

Scope of Work. The Phase 5B (Treatment Plant) Expansion project will be delivered in two separate construction contracts, referred to as 5B "Package 1" (5BP1) and 5B "Package 2" (5BP2). These contracts are summarized below, and a detailed scope of work is provided on the reverse side of this form.

- The 5BP1 contract will construct new odor control systems for the Preliminary/Primary Treatment processes and the Solids Handling processes. In addition, this contract will make improvements to existing facilities throughout the site to enhance process reliability, plant staff safety and site security. The contract includes a new oil and lubricant storage building and demolition of an aging building as needed for new treatment processes associated with the long-term master plan for the site.
- The 5BP2 contract constructs new secondary treatment facilities to provide increased overall plant capacity. The project also completes planned work for site security to comply with industry standard guidance, including *Guidelines for the Physical Security of Wastewater/Stormwater Utilities, ASCE/ AWWA/ WEF, published December 2011 (WEF Security Guidance)*. Digester gas treatment system improvements will optimize performance and ensure permit compliance for this portion of the facility.

Cost Allocation. The SCTP expansion costs will be allocated based on capacity purchased in the system (see reverse side for supplemental capacity allocation information).

Photos *(if available)*:



Existing Primary Clarifiers | *Primary Clarifier Covers* | *Bio Trickling Filter Tower*

Budget Information:

Project Cost Estimate		
Total Project Cost:	$34,600,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Bid	(Class 1)
Project Cost Allocation		
Battle Ground:	19.2%	$6,600,000
District:	80.8%	$28,000,000

Schedule Information ("Package 2" Shown):

Activity	Year
Planning	2020-2021
Permitting	2021-2022
Real Property/ROW	N/A
Design	2021-2022
Bid	2022
Construction	2022-2027

Supplemental Information:

Salmon Creek Treatment Plant Expansion Program
Cost Allocation Based on Allocated Capacity

Allocated Capacity Summary (MGD, MMF) (SCWMS Wastewater Facilities Plan Table 3-1)				INCREMENTAL CAPACITY PURCHASED			COST ALLOCATION	
				Plant Capacity (mgd)	Battle Ground Capacity (mgd)	District Capacity (mgd)	Battle Ground Share (percent)	District Share (percent)
Expansion Phase	**Plant Capacity**	**Battle Ground**	**District**					
Phase 4 (Existing)	*14.95*	*3.47*	*11.48*					
	100.0%	*23.2%*	*76.8%*	*2.55*	*0.49*	*2.06*	*19.2%*	*80.8%*
Phase 5B (Plant)	*17.50*	*3.96*	*13.54*					
	100.0%	*22.6%*	*77.4%*					

Scope of Work	Project Cost Information		
	Battle Ground	**District**	**Total**
Phase 5B – "Package 1" Odor Control/Existing Facilities Improvements • *New Primary Clarifier Covers* • *New Preliminary and Primary Treatment Odor Control System* • *Existing Aeration Basins 5 & 6 Improvements* • *Existing Return Activated Sludge (RAS) Piping Improvements* • *New RAS Chlorination System* • *New Secondary Clarifier Effluent Launder Covers* • *Updated Solids Processing Center Pipe Supports* • *Updated UV System Disinfection System Cover* • *New Solids Handling Odor Control System* • *Updated Waste Gas Incinerator Controls Cover* • *Demolition of Existing Building 87* • *Entrance Gate Security Improvements* • *New Oil & Lubricant Storage Building*	$1,800,000	$7,800,000	$9,600,000
Phase 5B – "Package 2" Secondary Treatment Process Improvements • *New Aeration Basin 7* • *Blower Building Modifications/New Blower 8* • *Demolition of Secondary Clarifier 2* • *New Secondary Clarifier 5* • *Perimeter Fence Security Improvements* • *Surveillance Cameras Security Improvements* • *RAS System Pumping Improvements (7 New Pumps)* • *New Digester Gas Treatment System (Micro-aeration and ferric chloride chemical addition)*	$4,800,000	$20,200,000	$25,000,000
Total Phase 5B (Treatment Plant) Expansion	**$6,600,000**	**$28,000,000**	**$34,600,000**

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

Project Name: SCTP Phase 6 Expansion
Project Number: RA07-30-1
Form Prepared/Updated: March 2026

Project Type: Existing Asset – Repair ☐
Existing Asset – Replacement ☐
New Asset – Capacity ☒
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. This project will provide an increase to Alliance Members' Allocated Capacity in the Salmon Creek Treatment Plant (SCTP), in order to meet the needs of a growing service area.

Scope of Work. The Phase 6 Expansion project will construct a new Influent Screen 3 and a new Primary Clarifier 5. Aeration Basin 8 will be constructed, and the blower building (Facility 37) will be expanded to provide additional blower capacity for the future, including one additional blower with this project. A building will be erected to cover the UV and effluent pump station (EPS) facility. New effluent pumps are required at this phase of expansion, with modifications also required for the structure to accommodate system hydraulics. Anaerobic Digester 3 will be constructed along with the supporting mechanical mixing and heating systems for this new digester.

Cost Allocation. The SCTP expansion costs will be allocated based on capacity purchased in the system (see reverse side for supplemental capacity allocation information).

Photos *(if available)*:



Existing Influent Screen



Existing RAS/WAS Pump Station



Existing UV Disinfection

Budget Information:

Project Cost Estimate		
Total Project Cost:	$53,100,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Placeholder	(Class 5)
Project Cost Allocation		
Battle Ground:	13.8%	$7,300,000
District:	86.2%	$45,800,000

Schedule Information:

Activity	Year
Planning	2027
Permitting	2028-2029
Real Property/ROW	N/A
Design	2028-2029
Bid	2030
Construction	2030-2032

Supplemental Information:

Salmon Creek Treatment Plant Expansion Program
Cost Allocation Based on Allocated Capacity

	Allocated Capacity Summary (MGD, MMF) (SCWMS Wastewater Facilities Plan Table 3-1)			INCREMENTAL CAPACITY PURCHASED			COST ALLOCATION	
				Plant Capacity (mgd)	Battle Ground Capacity (mgd)	District Capacity (mgd)	Battle Ground Share (percent)	District Share (percent)
Expansion Phase	**Plant Capacity**	**Battle Ground**	**District**					
Phase 4 (Existing)	*14.95*	*3.47*	*11.48*					
	100.0%	*23.2%*	*76.8%*	*2.55*	*0.49*	*2.06*	*19.2%*	*80.8%*
Phase 5B (Plant)	*17.50*	*3.96*	*13.54*					
	100.0%	*22.6%*	*77.4%*	2.10	0.29	1.81	13.8%	86.2%
Phase 6	*19.60*	*4.25*	*15.35*					
	100.0%	*21.7%*	*78.3%*	4.20	0.84	3.36	20.0%	80.0%
Phase 7	*23.80*	*5.09*	*18.71*					
	100.0%	*21.4%*	*78.6%*	3.20	0.63	2.57	19.7%	80.3%
Phase 8	*27.00*	*5.72*	*21.28*					
	100.0%	*21.2%*	*78.8%*	3.70	0.74	2.96	20.0%	80.0%
Phase 9	*30.70*	*6.46*	*24.24*					
	100.0%	*21.0%*	*79.0%*					
TOTAL				15.75	2.99	12.76		

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

Project Name: SCTP Class A Biosolids Upgrade
Project Number: RA07-34-1
Form Prepared/Updated: March 2026

Project Type: Existing Asset – Repair ☐
Existing Asset – Replacement ☐
New Asset – Capacity ☐
New Asset – Regulatory ☒
New Asset – Level of Service ☒

Project Definition:

Objective. This project proposes to install a biosolids dryer at the SCTP site that will result in the production of a Class A biosolids material, upgrading the current Class B biosolids program. The upgrade provides several benefits to the Alliance biosolids program, including (1) reduced program risk related to legislative, regulatory and political challenges to Class B programs, (2) increased program flexibility, reliability and control, including the ability to reuse the biosolids material within the local community, (3) substantially reduced truck traffic volume (by approximately a 6:1 ratio) with the residential community near the SCTP. A variety of different markets have been evaluated on a preliminary basis to ensure there are multiple end uses for the type and quantity of material that would be available within Clark County.

Scope of Work. The project will construct the biosolids dryer and related material handling and odor control systems, primarily in two of the existing four bays of the existing Biosolids Storage facility. This allows the remaining two bays to continue to serve in a biosolids storage capacity for the finished Class A material. Miscellaneous site improvements would also be required to support the equipment installation.

Cost Allocation. The project is scheduled to be completed with the Phase 7 Expansion project. Therefore, the overall Phase 7 Allocated Capacity is used as the basis of cost allocation. See the *Technical Memorandum – Class A Biosolids Cost Update, Brown and Caldwell, May 2017,* for additional information. The overall Class A and Class B program costs are similar, with the Class A program being incrementally higher cost through year 18 of the study period. After that point, the Class A program is more cost effective overall.

Photos *(if available)*:



Paddle Dryer - Exterior View | *Paddle Dryer - Interior View* | *Class A Biosolids Product*

Budget Information:

Project Cost Estimate		
Total Project Cost:	$21,300,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Placeholder	(Class 5)

Project Cost Allocation		
Battle Ground:	21.7%	$4,600,000
District:	78.3%	$16,700,000

Schedule Information:

Activity	Year
Planning	2031
Permitting	2032-2033
Real Property/ROW	N/A
Design	2032-2033
Bid	2034
Construction	2034-2036

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

Project Name: SCTP Phase 7 Expansion
Project Number: RA07-34-2
Form Prepared/Updated: March 2026

Project Type: Existing Asset – Repair ☐
Existing Asset – Replacement ☐
New Asset – Capacity ☒
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. This project will provide an increase to Alliance Members' Allocated Capacity in the Salmon Creek Treatment Plant, in order to meet the needs of a growing service area.

Scope of Work. The Phase 7 Expansion project will construct a new Primary Clarifier 6 and a new Aeration Basin 9. An additional blower is added with this project to support the new basin. A new Mixed Liquor splitter box is required to direct flow to new Secondary Clarifier 6. A new RAS/WAS pump station facility is also required to support the new secondary clarifier. Two new effluent pumps are required to convey peak flow rates to the Columbia River. Anaerobic Digester 4 will be constructed along with the supporting mechanical mixing and heating systems for this new digester. To provide space for the new secondary clarifier and RAS/WAS pump station, the plant's original aerobic digester and maintenance storage facility must be demolished, per the long-term site master plan. A replacement maintenance storage facility is also provided elsewhere on the site with this project.

Cost Allocation. The SCTP expansion costs will be allocated based on capacity purchased in the system (see reverse side for supplemental capacity allocation information).

Photos *(if available)*:



Salmon Creek Treatment Plant Aerial



Existing Primary Clarifier



Existing Anaerobic Digester

Budget Information:

Project Cost Estimate		
Total Project Cost:	$51,500,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Placeholder	(Class 5)
Project Cost Allocation		
Battle Ground:	20.0%	$10,300,000
District:	80.0%	$41,200,000

Schedule Information:

Activity	Year
Planning	2031
Permitting	2032-2033
Real Property/ROW	N/A
Design	2032-2033
Bid	2034
Construction	2034-2036

Supplemental Information:

Salmon Creek Treatment Plant Expansion Program
Cost Allocation Based on Allocated Capacity

	Allocated Capacity Summary (MGD, MMF) (SCWMS Wastewater Facilities Plan Table 3-1)			INCREMENTAL CAPACITY PURCHASED			COST ALLOCATION	
				Plant Capacity (mgd)	Battle Ground Capacity (mgd)	District Capacity (mgd)	Battle Ground Share (percent)	District Share (percent)
Expansion Phase	**Plant Capacity**	**Battle Ground**	**District**					
Phase 4 (Existing)	*14.95*	*3.47*	*11.48*					
	100.0%	*23.2%*	*76.8%*	*2.55*	*0.49*	*2.06*	*19.2%*	*80.8%*
Phase 5B (Plant)	*17.50*	*3.96*	*13.54*					
	100.0%	*22.6%*	*77.4%*	2.10	0.29	1.81	13.8%	86.2%
Phase 6	*19.60*	*4.25*	*15.35*					
	100.0%	*21.7%*	*78.3%*	4.20	0.84	3.36	20.0%	80.0%
Phase 7	*23.80*	*5.09*	*18.71*					
	100.0%	*21.4%*	*78.6%*	3.20	0.63	2.57	19.7%	80.3%
Phase 8	*27.00*	*5.72*	*21.28*					
	100.0%	*21.2%*	*78.8%*	3.70	0.74	2.96	20.0%	80.0%
Phase 9	*30.70*	*6.46*	*24.24*					
	100.0%	*21.0%*	*79.0%*					
TOTAL				15.75	2.99	12.76		

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

Project Name: SCTP Phase 8 Expansion
Project Number: RA07-44-1
Form Prepared/Updated: March 2026

Project Type: Existing Asset – Repair ☐
Existing Asset – Replacement ☐
New Asset – Capacity ☒
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. This project will provide an increase to Alliance Members' Allocated Capacity in the Salmon Creek Treatment Plant, to meet the needs of a growing service area.

Scope of Work. The Phase 8 Expansion project will construct a new Aeration Basin 10, Aeration Blower, Secondary Clarifier 7, RAS Pumps, and Effluent Pumps (3A/4A).

Cost Allocation. The Salmon Creek Treatment Plant expansion costs will be allocated based on capacity purchased in the system (see reverse side for supplemental capacity allocation information).

Photos *(if available)*:



Existing Effluent Pump Station



Existing Aeration Basins 5 & 6



Existing Secondary Clarifiers 3 & 4

Budget Information:

Project Cost Estimate		
Total Project Cost:	$21,100,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Placeholder	(Class 5)
Project Cost Allocation		
Battle Ground:	19.7%	$4,200,000
District:	80.3%	$16,900,000

Schedule Information:

Activity	Year
Planning	2041
Permitting	2042-2043
Real Property/ROW	N/A
Design	2042-2043
Bid	2044
Construction	2044-2046

Supplemental Information:

Salmon Creek Treatment Plant Expansion Program
Cost Allocation Based on Allocated Capacity

	Allocated Capacity Summary (MGD, MMF) (SCWMS Wastewater Facilities Plan Table 3-1)			INCREMENTAL CAPACITY PURCHASED			COST ALLOCATION	
				Plant Capacity (mgd)	Battle Ground Capacity (mgd)	District Capacity (mgd)	Battle Ground Share (percent)	District Share (percent)
Expansion Phase	**Plant Capacity**	**Battle Ground**	**District**					
Phase 4 (Existing)	*14.95*	*3.47*	*11.48*					
	100.0%	*23.2%*	*76.8%*	*2.55*	*0.49*	*2.06*	*19.2%*	*80.8%*
Phase 5B (Plant)	*17.50*	*3.96*	*13.54*					
	100.0%	*22.6%*	*77.4%*	2.10	0.29	1.81	13.8%	86.2%
Phase 6	*19.60*	*4.25*	*15.35*					
	100.0%	*21.7%*	*78.3%*	4.20	0.84	3.36	20.0%	80.0%
Phase 7	*23.80*	*5.09*	*18.71*					
	100.0%	*21.4%*	*78.6%*	3.20	0.63	2.57	19.7%	80.3%
Phase 8	*27.00*	*5.72*	*21.28*					
	100.0%	*21.2%*	*78.8%*	3.70	0.74	2.96	20.0%	80.0%
Phase 9	*30.70*	*6.46*	*24.24*					
	100.0%	*21.0%*	*79.0%*					
TOTAL				15.75	2.99	12.76		

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

Project Name: Ridgefield Treatment Plant Effluent Cooling
Project Number: RA08-27-1
Form Prepared/Updated: April 2026

Project Type: Existing Asset – Repair ☐
Existing Asset – Replacement ☐
New Asset – Capacity ☐
New Asset – Regulatory ☒
New Asset – Level of Service ☐

Project Definition:

Objective. This project will address a new regulatory requirement requiring the Ridgefield Treatment Plant effluent to be maintained at or below a temperature threshold of 24.6 degrees C (76.3 degrees F). This requirement became effective in the Fall of 2025 when Ecology re-issued the NPDES permit for the facility. The facility currently has no effluent temperature regulating systems. To address this new requirement, the District commissioned an effluent cooling alternatives review, published in February 2026. This project is based on a solar shading approach where the two aeration basins would be outfitted with a shade canopy, to reduce the amount of heat absorbed into the basins.

Scope of Work. This project is based on work with a canopy vendor that would design a light frame structure over the aeration basins to support a sun-blocking canopy. The project will need to be structurally designed to anchor the canopy. Details of the frame anchorage, type and color of fabric, and other operational features would be further developed in the design phase. Coordination with the Port and City of Ridgefield would occur through the design period, to ensure support for the visual change on the Ridgefield Treatment Plant site.

Cost Allocation. All capacity related to the Ridgefield Treatment Plant and Outfall is allocated to the District; therefore, 100% of costs of this project are the responsibility of the District.

Photos *(if available)*:



Ridgefield Treatment Plant Site



Example Solar Shading Equipment

Budget Information:

Project Cost Estimate		
Total Project Cost:	$590,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:		(Class 5)

Project Cost Allocation		
Battle Ground:	0%	$0
District:	100%	$590,000

Schedule Information:

Activity	Year
Planning	2025
Permitting	2027
Real Property/ROW	N/A
Design	2026-2027
Bid	2027
Construction	2027

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

Project Name: Ridgefield Treatment Plant Decommissioning
Project Number: RA08-33-1
Form Prepared/Updated: March 2026

Project Type: Existing Asset – Repair ☐
Existing Asset – Replacement ☒
New Asset – Capacity ☐
New Asset – Regulatory ☐
New Asset – Level of Service ☐

Project Definition:

Objective. This project provides for the proper decommissioning of the Ridgefield Treatment Plant and Outfall at the end of the facility's useful life.

Scope of Work. This project will demolish all WWTP structures to three feet below ground level. Above ground waste from this demolition will be disposed of at a construction landfill. Below grade waste will be kept onsite and used as back fill material for the empty basins. All below-grade piping, including the outfall, will be filled with low strength concrete and abandoned in place. All structures more than three feet below grade will remain. Basins will be filled with sand to bring them to existing ground level. Due to the hazardous soils on site, a HAZWOPER supervisor will be required to witness all excavation and material handling. It is assumed that no material will be excavated and hauled offsite. Upon completion of demolition work, placement of a geo-textile on top of contaminated soils, along with a two-foot cap of clean fill material will be required to complete the decommissioning. The site will then be reclaimed for other uses by the City of Ridgefield. The work will be completed in accordance with the consent decree terms and conditions required for excavating on the Pacific Wood Treating Corporation Site (Ecology Site No. 1019).

Cost Allocation. All capacity related to the Ridgefield Treatment Plant and Outfall is allocated to the District, therefore 100% of costs of this project are the responsibility of the District.

Photos *(if available)*:



Ridgefield Treatment Plant Site

Budget Information:

Project Cost Estimate		
Total Project Cost:	$5,500,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Placeholder	(Class 5)
Project Cost Allocation		
Battle Ground:	0%	$0
District:	100%	$5,500,000

Schedule Information:

Activity	Year
Planning	2028
Permitting	2029
Real Property/ROW	N/A
Design	2028-2029
Bid	2033
Construction	2033-2034

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

Project Name: Battle Ground Force Main Parallel Force Main
Project Number: RA09-30-1
Form Prepared/Updated: March 2026

Project Type: Existing Asset – Repair ☐
Existing Asset – Replacement ☐
New Asset – Capacity ☒
New Asset – Regulatory ☐
New Asset – Level of Service ☐

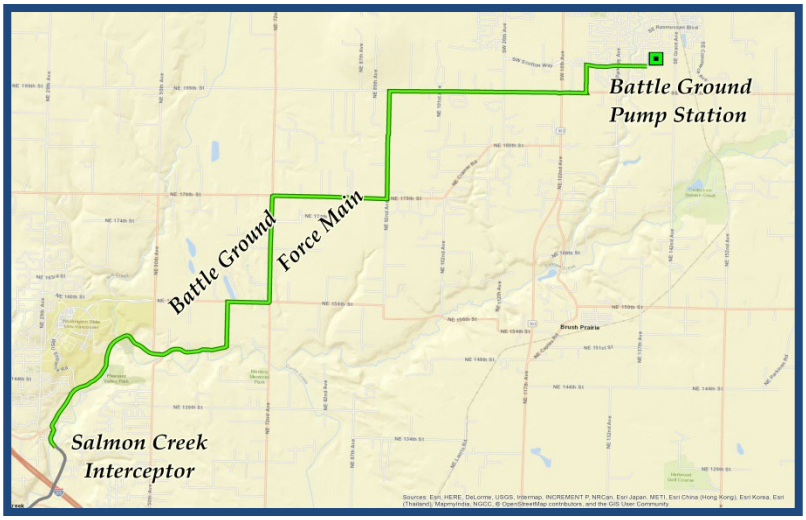
Project Definition:

Objective. The project will increase capacity in the Battle Ground Force Main system to support continued growth in the Battle Ground service area.

Scope of Work. The project will construct a second, parallel force main pipeline from Battle Ground to a point of connection with the Klineline Interceptor. The new pipeline is estimated to be 24 inches in diameter and is anticipated to largely follow the route of the current force main. Additional planning and engineering work will be completed in advance of construction to confirm pipe sizing and specific routes.

Cost Allocation. The project provides capacity only for the Battle Ground service area, and therefore, 100% of costs are allocated to Battle Ground. For additional information related to this project, see the *City of Battle Ground General Sewer Plan, Wallis Engineering, March 2011*.

Photos *(if available)*:



Battle Ground Force Main Route

Budget Information:

Project Cost Estimate		
Total Project Cost:	$50,500,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Placeholder	(Class 5)
Project Cost Allocation		
Battle Ground:	100%	$50,500,000
District:	0%	$0

Schedule Information:

Activity	Year
Planning	2028
Permitting	2028-2029
Real Property/ROW	2028-2029
Design	2028-2030
Bid	2030
Construction	2030-2032

Discovery Clean Water Alliance
CAPITAL PROJECT PROFILE

Project Name: General Sewer Plan/Phase 6 Engineering Report

Project Number: GSP-ER-25

Form Prepared/Updated: March 2026

Project Type: Existing Asset – Repair ☐
Existing Asset – Replacement ☐
New Asset – Capacity ☒
New Asset – Regulatory ☒
New Asset – Level of Service ☒

Project Definition:

Objective. This project will develop the first Alliance regulatory planning document for Alliance-owned infrastructure, providing a report meeting the Ecology definition for a General Sewer Plan (GSP) and an Engineering Report (ER) for the Phase 6 Expansion project. To date, the Alliance has relied on planning documents inherited from Member agencies at formation. Those documents are sufficiently dated that a new plan for Alliance infrastructure is needed at this time to guide future capital investments.

Scope of Work. The plan will provide a recommended program for future investments that meet the growth demands on the system, is consistent with regulatory requirements and reflects Alliance values. The plan will provide updated flow and loading assessments, considering current and future regulatory requirements, and explore alternatives in these areas:

- Regional wastewater transmission options associated with routing future Battle Ground area flows and future upgrades for the 117th Street Pump Station.
- Regional wastewater treatment needs, including plans for Ridgefield Treatment Plant decommissioning.
- Reclaimed water alternatives and cost-effectiveness (per RCW 90.48.112).
- Residuals and resource recovery options, including Class A biosolids and digester gas utilization.
- Stormwater master plan/regulatory review update for Salmon Creek Treatment Plant site.
- Support facility evaluation and program updates (maintenance needs, chemical storage, vehicle storage, etc.).

Cost Allocation. Administrative costs are determined by total Treatment Facilities Allocated Capacity. After Phase 5 capacity is recognized, costs would be allocated based on District Allocated Capacity of 14.24 mgd (78.2%) and Battle Ground Allocated Capacity of 3.96 mgd (21.8%). A similar planning effort will be required for the Phase 8 Expansion. After Phase 7 capacity is recognized, costs would be allocated based on District Allocated Capacity of 18.71 mgd (78.6%) and Battle Ground Allocated Capacity of 5.09 mgd (21.4%).

Photos *(if available)*:



Alliance Regional Assets Service Area

Budget Information:

Project Cost Estimate		
Total Project Cost:	$2,500,000	
Basis of Estimate		
Year Completed:	2026	
Project Definition:	Placeholder	(Class 5)
Project Cost Allocation		
Battle Ground:	21.8%	$500,000
District:	78.2%	$2,000,000

Schedule Information:

Activity	Year
Planning	2025-2027
Permitting	NA
Real Property/ROW	NA
Design	NA
Bid	NA
Construction	NA