

Issuance Date: February 24, 2021  
Effective Date: April 1, 2021  
Expiration Date: March 31, 2026

**National Pollutant Discharge Elimination System Waste Discharge  
and State Reclaimed Water Permit No. WA0029904**

State of Washington  
DEPARTMENT OF ECOLOGY  
Northwest Regional Office  
3190 160<sup>th</sup> Avenue SE  
Bellevue, Washington 98008-5452

In compliance with the provisions of  
The State of Washington Water Pollution Control Law  
Chapter 90.48 Revised Code of Washington  
The State of Washington Reclaimed Water Act,  
Chapter 90.46 Revised Code of Washington  
and  
The Federal Water Pollution Control Act  
(The Clean Water Act)  
Title 33 United States Code, Section 1342 et seq.

**Warm Beach Christian Camp and  
Conference Center**  
20800 Marine Drive  
Stanwood, Washington 98292

**Water & Wastewater Services, LLC**  
14263 Calhoun Road  
Mount Vernon, Washington 98273

is authorized to discharge in accordance with the Special and General Conditions that follow.

<u>Plant Location:</u> 20800 Marine Drive Stanwood, WA 98292	<u>Receiving Water (Outfall 001):</u> Puget Sound – Port Susan
<u>Treatment Type:</u> Aerated lagoons/wetlands and chlorine disinfection	<u>Reclaimed Water Class and Beneficial Use (Outfall 002):</u> Class B; Horse pasture irrigation



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Northwest Regional Office  
Washington State Department of Ecology

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## Summary of Permit Report Submittals

Refer to the Special and General Conditions of this permit for additional submittal requirements.

**Table 1: Summary of Permit Report Submittals**

Permit Section	Submittal	Frequency	First Submittal Date
<b>Wastewater Discharge through Outfall 001 to Port Susan</b>			
S3.A	Monthly Discharge Monitoring Report (DMR)	Monthly	May 15, 2021
S3.A	Annual DMR	Annually	January 15, 2022
S3.F	Reporting Permit Violations	As necessary	-
S3.G	Other Reporting	-	-
S4.B	Plans for Maintaining Adequate Capacity	As necessary	-
S5.G	Operations and Maintenance Manual Update	1/permit cycle	February 15, 2023
S8.	Outfall Evaluation	1/permit cycle	July 15, 2023
S9.	Operator Contract	1/permit cycle	September 30, 2021
S10.	Application for Permit Renewal	1/permit cycle	June 30, 2025
<b>Reclaimed Water Generation and Use</b>			
R3.A	DMR	Monthly	May 15, 2021
R3.B	Annual Summary Report	Annually	March 15, 2022
R3.D	Reporting Permit Violations	As necessary	-
R4.C	Cross Connection Control Evaluation Report	1/permit cycle	June 30, 2022
R6.C	Operations and Maintenance Manual Update	1/permit cycle	Prior to RW Production and Distribution
R9.	Application for Permit Renewal	1/permit cycle	June 30, 2025
<b>General Conditions</b>			
G1.	Notice of Change in Authorization	As necessary	-
G4.	Reporting Planned Changes	As necessary	-
G5.	Engineering Report for Construction or Modification Activities	As necessary	-
G7.	Notice of Permit Transfer	As necessary	-
G10.	Duty to Provide Information	As necessary	-
G20.	Compliance Schedules	As necessary	-
G21.	Contract Submittal	As necessary	-

## Special Conditions

### S1. Discharge limits

#### S1.A. Effluent limits

All discharges and activities authorized by this permit must comply with the terms and conditions of this permit. The discharge of any of the following pollutants more frequently than, or at a level in excess of, that identified and authorized by this permit violates the terms and conditions of this permit.

Beginning on the effective date of this permit, the Permittee may discharge treated domestic wastewater to Puget Sound – Port Susan at the permitted location subject to compliance with the following limits:

**Table 2: Effluent Limits: Outfall 001**

<b>Effluent Limits: Outfall 001</b>		
<b>Latitude 48.1901 Longitude -122.3568</b>		
<b>Parameter</b>	<b>Maximum Rate and Discharge Condition</b>	
Effluent Discharge	642 gallons per minute (gpm). The effluent must not be discharged when the water level in the receiving water is less than one foot above the crown of the diffuser.	
<b>Parameter</b>	<b>Average Monthly <sup>a</sup></b>	<b>Average Weekly <sup>b</sup></b>
Biochemical Oxygen Demand (5-day) (BOD <sub>5</sub> )	30 milligrams/liter (mg/L) 38 pounds/day (lbs/day) 85% removal of influent BOD <sub>5</sub>	45 mg/L 56 lbs/day
Total Suspended Solids (TSS)	30 mg/L 38 lbs/day 85% removal of influent TSS	45 mg/L 56 lbs/day
<b>Parameter</b>	<b>Minimum</b>	<b>Maximum</b>
pH	6.0 standard units	9.0 standard units
<b>Parameter</b>	<b>Monthly Geometric Mean</b>	<b>Maximum Daily</b>
Fecal Coliform Bacteria <sup>c</sup>	72/100 milliliter (mL)	285/100 mL
<b>Parameter</b>	<b>Average Monthly</b>	<b>Maximum Daily <sup>d</sup></b>
Total Residual Chlorine	33 micrograms/liter (µg/L)	69 µg/L

Footnote	Information
a	Average monthly effluent limit means the highest allowable average of daily discharges over a calendar month. To calculate the discharge value to compare to the limit, you add the value of each daily discharge measured during a calendar month and divide this sum by the total number of daily discharges measured. See footnote c for fecal coliform calculations.
b	Average weekly discharge limit means the highest allowable average of daily discharges over a calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges' measured during that week. See footnote c for fecal coliform calculations.
c	Ecology provides directions to calculate the monthly and the weekly geometric mean in publication No. 04-10-020, <a href="https://fortress.wa.gov/ecy/publications/documents/0410020.pdf">Information Manual for Treatment Plant Operators</a> available at <a href="https://fortress.wa.gov/ecy/publications/documents/0410020.pdf">https://fortress.wa.gov/ecy/publications/documents/0410020.pdf</a> .
d	Maximum daily effluent limit is the highest allowable daily discharge. The daily discharge is the average discharge of a pollutant measured during a calendar day. For pollutants with limits expressed in units of mass, calculate the daily discharge as the total mass of the pollutant discharged over the day. This does not apply to pH or temperature.

## S1.B. Mixing zone authorization

### Mixing zone for Outfall 001

The following paragraphs define the maximum boundaries of the mixing zones:

#### Chronic mixing zone

Perpendicular to the diffuser, the width of the mixing zone is 25% of the width of the channel, over the diffuser, at high tide. Parallel to the diffuser, the mixing zone extends 200 feet from the center line of the diffuser in both directions.

#### Acute mixing zone

Perpendicular to the diffuser, the width of the mixing zone is 25% of the width of the channel, over the diffuser, at high tide. Parallel to the diffuser, the mixing zone extends 20 feet from the center line of the diffuser in both directions.

**Table 3: Dilution Factor**

Available Dilution (dilution factor)	
Acute Aquatic Life Criteria	5.3
Chronic Aquatic Life Criteria	7.5
Human Health Criteria - Non-carcinogen	7.5

## S2. Monitoring requirements

### S2.A. Monitoring schedule

The Permittee must monitor in accordance with the following schedule and the requirements specified in Appendix A.

**Table 4: Wastewater influent**

Wastewater influent means the raw sewage flow from the collection system into the treatment facility. Sample the wastewater entering the headworks of the treatment plant excluding any side stream returns from inside the plant.

Parameter	Units & Speciation	Minimum Sampling Frequency	Sample Type
<b>(1) Wastewater influent</b>			
Flow	Million gallons per day (mgd)	Continuous <sup>a</sup>	Metered/recorded
Biochemical Oxygen Demand (BOD <sub>5</sub> )	mg/L	1/week <sup>c</sup>	24-hour Composite <sup>b</sup>
BOD <sub>5</sub>	lbs/day	1/week	Calculated <sup>g</sup>
Total Suspended Solids (TSS)	mg/L	1/week	24-hour Composite
TSS	lbs/day	1/week	Calculated

Footnote	Information
<sup>a</sup>	Continuous means uninterrupted except for brief lengths of time for calibration, power failure, or unanticipated equipment repair or maintenance. The time interval for the associated data logger must be no greater than 30 minutes.
<sup>b</sup>	24-hour Composite means a series of individual samples collected over a 24-hour period into a single container, and analyzed as one sample.
<sup>c</sup>	1/week means one time during each calendar week. 1/month means one time during each calendar month. Annually means one time during each calendar year.

**Table 5: Final wastewater effluent**

Final Wastewater Effluent means wastewater that is stored in the concrete effluent tank prior to discharge to Port Susan. The Permittee must dechlorinate and reseed the sample for BOD<sub>5</sub> analysis if chlorine is present in the final effluent. The Permittee may collect final wastewater effluent samples for fecal coliform and pH immediately downstream of the filtration process. Final wastewater effluent samples must be taken at the minimum sampling frequency, specified below, when the facility is discharging wastewater.

Parameter	Units & Speciation	Minimum Sampling Frequency	Sample Type
<b>(2) Final Wastewater Effluent</b>			
Flow Rate	Gallons per minute (gpm)	Daily	Pumping Rate
Flow	MGD	Continuous <sup>a</sup>	Metered/Recorded
Biochemical Oxygen Demand (BOD <sub>5</sub> )	mg/L	1/week	24-Hour Composite <sup>b</sup>
BOD <sub>5</sub>	lbs/day	1/week	Calculated <sup>g</sup>
BOD <sub>5</sub>	% removal <sup>d</sup>	1/month	Calculated
Total Suspended Solids (TSS)	mg/L	1/week	24-Hour Composite <sup>b</sup>
TSS	lbs/day	1/week	Calculated <sup>g</sup>
TSS	% removal <sup>d</sup>	1/month	Calculated
Chlorine (Total Residual)	µg/L	Daily	Grab <sup>f</sup>
Fecal Coliform <sup>e</sup>	#/100 mL	1/week	Grab <sup>f</sup>
pH	Standard Units	Daily	Grab <sup>f</sup>
Total Ammonia	mg/L as N	1/month	Grab <sup>f</sup>
Nitrate plus Nitrite	mg/L as N	1/month	Grab <sup>f</sup>
The Permittee must record and report the wastewater treatment plant flow discharged on the day it collects the sample for testing with the discharge monitoring report. Annual sampling should occur only when the facility is operating and discharging. Therefore, if the facility is nonoperational in the winter months, samples should not be taken in the winter.			
Temperature	Degrees Celsius	Annually	Grab <sup>f</sup>
Dissolved Oxygen	mg/L	Annually	Grab <sup>f</sup>
Total Kjeldahl Nitrogen	mg/L as n	Annually	Grab <sup>f</sup>
Oil and Grease	mg/L	Annually	Grab <sup>f</sup>
Phosphorus (Total)	mg/L as P	Annually	Grab <sup>f</sup>
Total Dissolved Solids	mg/L	Annually	Grab <sup>f</sup>

Footnote	Information
a	Continuous means uninterrupted except for brief lengths of time for calibration, power failure, or unanticipated equipment repair or maintenance. The time interval for the associated data logger must be no greater than 30 minutes.
b	24-hour Composite means a series of individual samples collected over a 24-hour period into a single container, and analyzed as one sample.
c	1/week means one time during each calendar week. 1/month means 1 time during each calendar month. Annually means 1 time during each calendar year.
d	$\% \text{ removal} = \frac{\text{Influent concentration (mg/L)} - \text{Effluent concentration (mg/L)}}{\text{Influent concentration (mg/L)}} \times 100$ Calculate the percent (%) removal of BOD <sub>5</sub> and TSS using the above equation.
e	Report a numerical value for fecal coliforms following the procedures in Ecology's <a href="https://fortress.wa.gov/ecy/publications/documents/0410020.pdf">Information Manual for Wastewater Treatment Plant Operators</a> , Publication Number 04-10-020 available at <a href="https://fortress.wa.gov/ecy/publications/documents/0410020.pdf">https://fortress.wa.gov/ecy/publications/documents/0410020.pdf</a> . Do not report a result as too numerous to count (TNTC).
f	Grab means an individual sample collected over a fifteen (15) minute, or less, period.
g	Calculated means figured concurrently with the respective sample, using the following formula: Concentration (in mg/L) X Flow (in MGD) X Conversion Factor (8.34) = lbs/day

## S2.B. Sampling and analytical procedures

Samples and measurements taken to meet the requirements of this permit must represent the volume and nature of the monitored parameters. The Permittee must conduct representative sampling of any unusual discharge or discharge condition, including bypasses, upsets, and maintenance-related conditions that may affect effluent quality.

Sampling and analytical methods used to meet the monitoring requirements specified in this permit must conform to the latest revision of the *Guidelines Establishing Test Procedures for the Analysis of Pollutants* contained in 40 CFR Part 136 (or as applicable in 40 CFR subchapters N [Parts 400–471] or O [Parts 501-503]) unless otherwise specified in this permit. Ecology may only specify alternative methods for parameters without permit limits and for those parameters without an EPA approved test method in 40 CFR Part 136.

## S2.C. Flow measurement, field measurement, and continuous monitoring devices

The Permittee must:

1. Select and use appropriate flow measurement, field measurement, and continuous monitoring devices and methods consistent with accepted scientific practices.
2. Install, calibrate, and maintain these devices to ensure the accuracy of the measurements is consistent with the accepted industry standard, the manufacturer's recommendation, and approved O&M manual procedures for the device and the wastestream.
3. Use field measurement devices as directed by the manufacturer and do not use reagents beyond their expiration dates.
4. Establish a calibration frequency for each device or instrument in the O&M manual that conforms to the frequency recommended by the manufacturer.
  - a. Calibrate flow monitoring devices at a minimum frequency of at least one calibration per year.
5. Maintain calibration records for at least three years.

#### **S2.D. Laboratory accreditation**

The Permittee must ensure that all monitoring data required by Ecology for permit specified parameters is prepared by a laboratory registered or accredited under the provisions of chapter 173-50 WAC, *Accreditation of Environmental Laboratories*. Flow, temperature, settleable solids, conductivity, pH, and internal process control parameters are exempt from this requirement. The Permittee must obtain accreditation for conductivity and pH if it must receive accreditation or registration for other parameters.

### **S3. Reporting and recording requirements**

The Permittee must monitor and report in accordance with the following conditions. Falsification of information submitted to Ecology is a violation of the terms and conditions of this permit.

#### **S3.A. Discharge monitoring reports**

The first monitoring period begins on the effective date of the permit (unless otherwise specified).

The Permittee must:

1. Summarize, report, and submit monitoring data obtained during each monitoring period on the electronic discharge monitoring report (DMR) form provided by Ecology within the Water Quality Permitting Portal. Include data for each of the parameters tabulated in Special Condition S2 and as required by the form. Report a value for each day sampling occurred (unless specifically exempted in the permit) and for the summary values (when applicable) included on the electronic form.
2. Ensure that DMRs are electronically submitted no later than the dates specified below, unless otherwise specified in this permit.
3. The Permittee must also submit an electronic copy of the contract laboratory report as an attachment using WQWebDMR. The contract laboratory reports must also include information on the chain of custody, QA/QC results, and documentation of accreditation for the parameter.
4. Submit DMRs for parameters with the monitoring frequencies specified in S2 (monthly, quarterly, annual, etc.) at the reporting schedule identified below.

The Permittee must:

- a. Submit **monthly** DMRs by the 15<sup>th</sup> day of the following month. The first monthly DMR must be submitted by May 15, 2021 for the month of April, 2021.
  - b. Submit **annual** DMRs, unless otherwise specified in the permit, by January 15 for the previous calendar year. The annual sampling period is the calendar year. The first annual DMR must be submitted by January 15, 2022 for the 2021 calendar year.
5. Enter the “No Discharge” reporting code for an entire DMR, for a specific monitoring point, or for a specific parameter as appropriate, if the Permittee did not discharge wastewater or a specific pollutant during a given monitoring period.
  6. Report single analytical values below detection as “less than the detection level (DL)” by entering < followed by the numeric value of the detection level (e.g. < 2.0) on the DMR. If the method used did not meet the minimum DL and quantitation level (QL) identified in the permit, report the actual QL and DL in the comments or in the location provided.

7. Report single analytical values between the detection level (DL) and the quantitation level (QL) by entering the estimated value, the code for estimated value/below quantitation limit (j) and any additional information in the comments. Submit a copy of the laboratory report as an attachment using WQWebDMR.
8. **Not** report zero for bacteria monitoring. Report as required by the laboratory method.
9. Calculate and report an arithmetic average value for each day for bacteria if multiple samples were taken in one day.
10. Calculate the geometric mean values for bacteria (unless otherwise specified in the permit) using:
  - a. The reported numeric value for all bacteria samples measured above the detection value except when it took multiple samples in one day. If the Permittee takes multiple samples in one day it must use the arithmetic average for the day in the geometric mean calculation.
  - b. The detection value for those samples measured below detection.
11. Report the test method used for analysis in the comments if the laboratory used an alternative method not specified in the permit and as allowed in Appendix A.
12. Calculate average values and calculated total values (unless otherwise specified in the permit) using:
  - a. The reported numeric value for all parameters measured between the detection value and the quantitation value for the sample analysis.
  - b. One-half the detection value (for values reported below detection) if the lab detected the parameter in another sample from the same monitoring point for the reporting period.
  - c. Zero (for values reported below detection) if the lab did not detect the parameter in another sample for the reporting period.

### **S3.B. Permit Submittals and Schedules**

The Permittee must use the Water Quality Permitting Portal – Permit Submittals application (unless otherwise specified in the permit) to submit all other written permit-required reports by the date specified in the permit.

When another permit condition requires submittal of a paper (hard-copy) report, the Permittee must ensure that it is postmarked or received by Ecology no later than the dates specified by this permit.

Send these paper reports to Ecology at:

Water Quality Permit Coordinator  
Department of Ecology  
Northwest Regional Office  
3190 160<sup>th</sup> Avenue SE  
Bellevue, Washington 98008-5452

### **S3.C. Records retention**

The Permittee must retain records of all monitoring information for a minimum of three years. Such information must include all calibration and maintenance records and all original recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit. The Permittee must extend this period of retention during the course of any unresolved litigation regarding the discharge of pollutants by the Permittee or when requested by Ecology.

### **S3.D. Recording of results**

For each measurement or sample taken, the Permittee must record the following information:

1. The date, exact place, method, and time of sampling or measurement.
2. The individual who performed the sampling or measurement.
3. The dates the analyses were performed.
4. The individual who performed the analyses.
5. The analytical techniques or methods used.
6. The results of all analyses.

### **S3.E. Additional monitoring by the Permittee**

If the Permittee monitors any pollutant more frequently than required by Special Condition S2 of this permit, then the Permittee must include the results of such monitoring in the calculation and reporting of the data submitted in the Permittee's DMR unless otherwise specified by Special Condition S2.

### **S3.F. Reporting permit violations**

The Permittee must take the following actions when it violates or is unable to comply with any permit condition:

1. Immediately take action to stop, contain, and cleanup unauthorized discharges or otherwise stop the noncompliance and correct the problem.

2. If applicable, immediately repeat sampling and analysis. Submit the results of any repeat sampling to Ecology within thirty (30) days of sampling.

**a. Immediate reporting**

The Permittee must immediately report to Ecology and the Department of Health, Shellfish Program, and the Local Health Jurisdiction (at the numbers listed below), all:

- Failures of the disinfection system.
- Collection system overflows.
- Plant bypasses discharging to marine surface waters.
- Any other failures of the sewage system (pipe breaks, etc.).

Northwest Regional Office (425) 649-7000

Department of Health, (360) 236-3330 (business hours)  
Shellfish Program (360) 789-8962 (after hours)

Snohomish Health District (425) 339-5250 (business hours)  
(425) 339-5295 (after hours)

**b. Twenty-four-hour reporting**

The Permittee must report the following occurrences of noncompliance by telephone, to Ecology at the telephone numbers listed above, within 24 hours from the time the Permittee becomes aware of any of the following circumstances:

1. Any noncompliance that may endanger health or the environment, unless previously reported under immediate reporting requirements.
2. Any unanticipated bypass that causes an exceedance of an effluent limit in the permit (See Part S5.F, "Bypass Procedures").
3. Any upset that causes an exceedance of an effluent limit in the permit (See G.15, "Upset").
4. Any violation of a maximum daily or instantaneous maximum discharge limit for any of the pollutants in Section S1.A of this permit.
5. Any overflow prior to the treatment works, whether or not such overflow endangers health or the environment or exceeds any effluent limit in the permit.

**c. Report within five days**

The Permittee must also submit a written report within five days of the time that the Permittee becomes aware of any reportable event under subparts a or b, above.

The report must contain:

1. A description of the noncompliance and its cause.
2. The period of noncompliance, including exact dates and times.
3. The estimated time the Permittee expects the noncompliance to continue if not yet corrected.
4. Steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
5. If the noncompliance involves an overflow prior to the treatment works, an estimate of the quantity (in gallons) of untreated overflow.

**d. Waiver of written reports**

Ecology may waive the written report required in subpart c, above, on a case-by-case basis upon request if the Permittee has submitted a timely oral report.

**e. All other permit violation reporting**

The Permittee must report all permit violations, which do not require immediate or within 24 hours reporting, when it submits monitoring reports for S3.A ("Reporting"). The reports must contain the information listed in subpart c, above. Compliance with these requirements does not relieve the Permittee from responsibility to maintain continuous compliance with the terms and conditions of this permit or the resulting liability for failure to comply.

**S3.G. Other reporting**

**a. Spills of Oil or Hazardous Materials**

The Permittee must report a spill of oil or hazardous materials in accordance with the requirements of RCW 90.56.280 and chapter 173-303-145. You can obtain further instructions on [How to Report a Spill](https://ecology.wa.gov/About-us/Get-involved/Report-an-environmental-issue/Report-a-spill) at <https://ecology.wa.gov/About-us/Get-involved/Report-an-environmental-issue/Report-a-spill>.

**b. Failure to submit relevant or correct facts**

Where the Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application, or in any report to Ecology, it must submit such facts or information promptly.

### **S3.H. Maintaining a copy of this permit**

The Permittee must keep a copy of this permit at the facility and make it available upon request to Ecology inspectors.

## **S4. Facility loading**

### **S4.A. Design criteria**

The flows or waste loads for the permitted facility must not exceed the following design criteria:

**Table 6: Design criteria**

<b>Flow</b>	<b>Unit</b>
Maximum Month Design Flow (MMDF)	0.15 MGD
BOD5 Influent Loading for Maximum Month	380 lbs/day

### **S4.B. Plans for maintaining adequate capacity**

#### **a. Conditions triggering plan submittal**

The Permittee must submit a plan and a schedule for continuing to maintain capacity to Ecology when:

1. The actual flow or waste load reaches 85 percent of any one of the design criteria in S4.A for three consecutive months.
2. The projected plant flow or loading would reach design capacity within five years.

#### **b. Plan and schedule content**

The plan and schedule must identify the actions necessary to maintain adequate capacity for the expected population growth and to meet the limits and requirements of the permit. The Permittee must consider the following topics and actions in its plan.

1. Analysis of the present design and proposed process modifications
2. Reduction or elimination of excessive infiltration and inflow of uncontaminated ground and surface water into the sewer system
3. Limits on future sewer extensions or connections or additional waste loads
4. Modification or expansion of facilities
5. Reduction of industrial or commercial flows or waste loads

Engineering documents associated with the plan must meet the requirements of WAC 173-240-060, "Engineering Report," and be approved by Ecology prior to any construction.

#### **S4.C. Duty to mitigate**

The Permittee must take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

#### **S4.D. Notification of new or altered sources**

1. The Permittee must submit written notice to Ecology whenever any new discharge or a substantial change in volume or character of an existing discharge into the wastewater treatment plant is proposed which:
  - a. Would interfere with the operation of, or exceed the design capacity of, any portion of the wastewater treatment plant.
  - b. Is not part of an approved general sewer plan or approved plans and specifications.
  - c. Is subject to pretreatment standards under 40 CFR Part 403 and Section 307(b) of the Clean Water Act.
2. This notice must include an evaluation of the wastewater treatment plant's ability to adequately transport and treat the added flow and/or waste load, the quality and volume of effluent to be discharged to the treatment plant, and the anticipated impact on the Permittee's effluent [40 CFR 122.42(b)].

### **S5. Operation and maintenance**

The Permittee must at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances), which are installed to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance also includes keeping a daily operation logbook (paper or electronic), adequate laboratory controls, and appropriate quality assurance procedures. This provision of the permit requires the Permittee to operate backup or auxiliary facilities or similar systems only when the operation is necessary to achieve compliance with the conditions of this permit.

#### **S5.A. Certified operator**

This permitted facility must be operated by an operator certified by the state of Washington for at least a Class I plant. This operator must be in responsible charge of the day-to-day operation of the wastewater treatment plant. An operator certified for at least a Class I plant must be in charge during all regularly scheduled shifts.

### **S5.B. Operation and maintenance program**

The Permittee must:

1. Institute an adequate operation and maintenance program for the entire sewage system.
2. Keep maintenance records on all major electrical and mechanical components of the treatment plant, as well as the sewage system and pumping stations. Such records must clearly specify the frequency and type of maintenance recommended by the manufacturer and must show the frequency and type of maintenance performed.
3. Make maintenance records available for inspection at all times.

### **S5.C. Short-term reduction**

The Permittee must schedule any facility maintenance, which might require interruption of wastewater treatment and degrade effluent quality, during non-critical water quality periods and carry this maintenance out according to the approved O&M manual or as otherwise approved by Ecology.

If a Permittee contemplates a reduction in the level of treatment that would cause a violation of permit discharge limits on a short-term basis for any reason, and such reduction cannot be avoided, the Permittee must:

1. Give written notification to Ecology, if possible, thirty (30) days prior to such activities.
2. Detail the reasons for, length of time of, and the potential effects of the reduced level of treatment.

This notification does not relieve the Permittee of its obligations under this permit.

### **S5.D. Electrical power failure**

The Permittee must ensure that adequate safeguards prevent the discharge of untreated wastes or wastes not treated in accordance with the requirements of this permit during electrical power failure at the treatment plant and/or sewage lift stations.

Adequate safeguards include, but are not limited to, alternate power sources, standby generator(s), or retention of inadequately treated wastes.

The permittee must cease effluent discharge into Port Susan immediately after and throughout the period of electrical power failure at the treatment facility.

**S5.E. Prevent connection of inflow**

The Permittee must strictly enforce its sewer ordinances and not allow the connection of inflow (roof drains, foundation drains, etc.) to the sanitary sewer system.

**S5.F. Bypass procedures**

A bypass is the intentional diversion of waste streams from any portion of a treatment facility. This permit prohibits all bypasses except when the bypass is for essential maintenance, as authorized in special condition S5.F.1, or is approved by Ecology as an anticipated bypass following the procedures in S5.F.2.

1. Bypass for essential maintenance without the potential to cause violation of permit limits or conditions.

This permit allows bypasses for essential maintenance of the treatment system when necessary to ensure efficient operation of the system. The Permittee may bypass the treatment system for essential maintenance only if doing so does not cause violations of effluent limits. The Permittee is not required to notify Ecology when bypassing for essential maintenance. However the Permittee must comply with the monitoring requirements specified in special condition S2.B.

2. Anticipated bypasses for non-essential maintenance

Ecology may approve an anticipated bypass under the conditions listed below. This permit prohibits any anticipated bypass that is not approved through the following process.

- a. If a bypass is for non-essential maintenance, the Permittee must notify Ecology, if possible, at least ten (10) days before the planned date of bypass.

The notice must contain:

- A description of the bypass and the reason the bypass is necessary.
- An analysis of all known alternatives which would eliminate, reduce, or mitigate the potential impacts from the proposed bypass.
- A cost-effectiveness analysis of alternatives.
- The minimum and maximum duration of bypass under each alternative.
- A recommendation as to the preferred alternative for conducting the bypass.
- The projected date of bypass initiation.
- A statement of compliance with SEPA.

- A request for modification of water quality standards as provided for in WAC 173-201A-410, if an exceedance of any water quality standard is anticipated.
  - Details of the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.
- b. For probable construction bypasses, the Permittee must notify Ecology of the need to bypass as early in the planning process as possible. The Permittee must consider the analysis required above during the project planning and design process. The project-specific engineering report as well as the plans and specifications must include details of probable construction bypasses to the extent practical. In cases where the Permittee determines the probable need to bypass early, the Permittee must continue to analyze conditions up to and including the construction period in an effort to minimize or eliminate the bypass.
- c. Ecology will determine if the Permittee has met the conditions of special condition S5.F.2 a and b and consider the following prior to issuing a determination letter, an administrative order, or a permit modification as appropriate for an anticipated bypass:
- If the Permittee planned and scheduled the bypass to minimize adverse effects on the public and the environment.
  - If the bypass is unavoidable to prevent loss of life, personal injury, or severe property damage. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which would cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass.
  - If feasible alternatives to the bypass exist, such as:
    - The use of auxiliary treatment facilities.
    - Retention of untreated wastes.
    - Stopping production.
    - Maintenance during normal periods of equipment downtime, but not if the Permittee should have installed adequate backup equipment in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance.
    - Transport of untreated wastes to another treatment facility.

## **S5.G. Operations and maintenance (O&M) manual**

### **a. O&M manual submittal and requirements**

The Permittee must:

1. Update the Operations and Maintenance (O&M) Manual that meets the requirements of 173-240-080 WAC and submit it to Ecology for approval by February 15, 2023.
2. Submit to Ecology for review and approval substantial changes or updates to the O&M Manual whenever it incorporates them into the manual.
3. Keep the approved O&M Manual at the permitted facility.
4. Follow the instructions and procedures of this manual.

### **b. O&M manual components**

In addition to the requirements of WAC 173-240-080(1) through (5), the O&M Manual must be consistent with the guidance in Table G1-3 in the [Criteria for Sewage Works Design](https://apps.ecology.wa.gov/publications/documents/9837) (Orange Book), 2008 located online at <https://apps.ecology.wa.gov/publications/documents/9837>.

The O&M Manual must include:

1. Emergency procedures for cleanup in the event of wastewater system upset or failure.
2. A review of system components which if failed could pollute surface water or could impact human health. Provide a procedure for a routine schedule of checking the function of these components.
3. Wastewater system maintenance procedures that contribute to the generation of process wastewater.
4. Reporting protocols for submitting reports to Ecology to comply with the reporting requirements in the discharge permit.
5. Any directions to maintenance staff when cleaning or maintaining other equipment or performing other tasks which are necessary to protect the operation of the wastewater system (for example, defining maximum allowable discharge rate for draining a tank, blocking all floor drains before beginning the overhaul of a stationary engine).
6. The treatment plant process control monitoring schedule.
7. Minimum staffing adequate to operate and maintain the treatment processes and carry out compliance monitoring required by the permit.

## **S6. Pretreatment**

### **S6.A. General requirements**

The Permittee must work with Ecology to ensure that all commercial and industrial users of the publicly owned treatment works (POTW) comply with the pretreatment regulations in 40 CFR Part 403 and any additional regulations that the Environmental Protection Agency (U.S. EPA) may promulgate under Section 307(b) (pretreatment) and 308 (reporting) of the Federal Clean Water Act.

### **S6.B. Duty to enforce discharge prohibitions**

1. Under federal regulations (40 CFR 403.5(a) and (b)), the Permittee must not authorize or knowingly allow the discharge of any pollutants into its POTW which may be reasonably expected to cause pass through or interference, or which otherwise violate general or specific discharge prohibitions contained in 40 CFR Part 403.5 or WAC 173-216-060.
2. The Permittee must not authorize or knowingly allow the introduction of any of the following into their treatment works:
  - a. Pollutants which create a fire or explosion hazard in the POTW (including, but not limited to waste streams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21).
  - b. Pollutants which will cause corrosive structural damage to the POTW, but in no case discharges with pH lower than 5.0, or greater than 11.0 standard units, unless the works are specifically designed to accommodate such discharges.
  - c. Solid or viscous pollutants in amounts that could cause obstruction to the flow in sewers or otherwise interfere with the operation of the POTW.
  - d. Any pollutant, including oxygen-demanding pollutants, (BOD<sub>5</sub>, etc.) released in a discharge at a flow rate and/or pollutant concentration which will cause interference with the POTW.
  - e. Petroleum oil, non-biodegradable cutting oil, or products of mineral origin in amounts that will cause interference or pass through.
  - f. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity which may cause acute worker health and safety problems.

- g. Heat in amounts that will inhibit biological activity in the POTW resulting in interference but in no case heat in such quantities such that the temperature at the POTW headworks exceeds 40 degrees Centigrade (104 degrees Fahrenheit) unless Ecology, upon request of the Permittee, approves, in writing, alternate temperature limits.
  - h. Any trucked or hauled pollutants, except at discharge points designated by the Permittee.
  - i. Wastewaters prohibited to be discharged to the POTW by the Dangerous Waste Regulations (chapter 173-303 WAC), unless authorized under the Domestic Sewage Exclusion (WAC 173-303-071).
3. The Permittee must also not allow the following discharges to the POTW unless approved in writing by Ecology:
- a. Noncontact cooling water in significant volumes.
  - b. Stormwater and other direct inflow sources.
  - c. Wastewaters significantly affecting system hydraulic loading, which do not require treatment, or would not be afforded a significant degree of treatment by the system.
4. The Permittee must notify Ecology if any industrial user violates the prohibitions listed in this section (S6.B), and initiate enforcement action to promptly curtail any such discharge.

## **S7. Solid wastes**

### **S7.A. Solid waste handling**

The Permittee must handle and dispose of all solid waste material in such a manner as to prevent its entry into state ground or surface water.

### **S7.B. Leachate**

The Permittee must not allow leachate from its solid waste material to enter state waters without providing all known, available, and reasonable methods of treatment, nor allow such leachate to cause violations of the State Surface Water Quality Standards, Chapter 173-201A WAC, or the State Ground Water Quality Standards, Chapter 173-200 WAC. The Permittee must apply for a permit or permit modification as may be required for such discharges to state ground or surface waters.

## **S8. Outfall evaluation**

The Permittee must inspect the outfall diffuser to document its integrity and continued function. The Permittee must include photographic verification in the report. By July 15, 2023, the Permittee must submit the inspection report to Ecology through the Water Quality Permitting Portal – Permit Submittals application.

The inspector must at minimum:

- Assess the physical condition of the outfall pipe, diffuser, and associated couplings.
- Determine the extent of sediment accumulation in the vicinity of the diffuser.
- Ensure diffuser ports are free of obstructions and are allowing uniform flow.

## **S9. Operator contract review**

The Permittee must submit to Ecology the operator contract for the operation of the facility covered by this permit by September 30, 2021. The Permittee must also submit any contracts or contract changes proposed in the future as required by General Condition G21. Ecology will review the contract(s) to ensure consistency with chapter 90.48 RCW. In the event that Ecology does not comment within a thirty-day (30) period, the permittee may assume consistency and proceed with the contract.

## **S10. Application for permit renewal or modification for facility changes**

The Permittee must submit an application for renewal of this permit by June 30, 2025.

The Permittee must also submit a new application or addendum at least one hundred eighty (180) days prior to commencement of discharges, resulting from the activities listed below, which may result in permit violations. These activities include any facility expansions, production increases, or other planned changes, such as process modifications, in the permitted facility.

## Reclaimed Water Conditions

The Permittee may not produce or distribute Class B reclaimed water prior to Ecology approval of the Operations and Maintenance manual as outlined in Special Condition R6.C.

### R1. Water quality limits

#### R1.A. Reclaimed water limits

All activities authorized by this permit for the production and distribution of reclaimed water must comply with the terms and conditions of this permit. The distribution of reclaimed water containing any of the following constituents more frequently than, or at a concentration in excess of, that identified and authorized by this permit violates the terms and conditions of this permit.

**After Ecology approval of the Operations and Maintenance manual as outlined in Special Condition R6.C**, the Permittee may produce and distribute Class B reclaimed water for the beneficial uses, and to the locations, listed in Reclaimed Water Condition R4 subject to the following water quality limits. In addition to the product water limits below, the reclaimed water must at all times comply with the limits on BOD<sub>5</sub>, TSS, and pH in Special Condition S1 of this permit.

**Table 7: Biological Oxidation Performance Standards**

Reclaimed Water Limits – Biological Oxidation Performance Standard <sup>a</sup>		
Parameter	Minimum	Maximum
Dissolved Oxygen (DO)	≥ 0.2 mg/L <sup>b</sup>	N/A

**Table 8: Product Water**

Reclaimed Water Limits – Product Water		
Parameter	7-Day Median <sup>c</sup>	Sample Maximum <sup>d</sup>
Total Coliform	23 # CFU/100 mL	240 # CFU /100 mL

Footnote	Information
<sup>a</sup>	Source water for the reclaimed water facility must meet or exceed minimum technology-based secondary treatment requirements in WAC 173-221-040 to satisfy the biological oxidation treatment standard.
<sup>b</sup>	The standard for dissolved oxygen is “must be measurably present”. The limit for dissolved oxygen is set at the minimum quantitation level listed in Appendix A.
<sup>c</sup>	Determine the 7-day median value using all of the bacteriological results of the last 7 days of analyses (the reporting day and the previous 6 days).

Footnote	Information
d	The number of total coliform organisms must not exceed the sample maximum limit value in any single sample. If the Permittee collects multiple samples in a single day, it must report the highest sample value of all samples taken as the sample maximum.

## R2. Monitoring requirements

### R2.A. Class B reclaimed water monitoring

The Permittee must monitor in accordance with the following schedule and the requirements specified in Appendix A.

The Permittee must monitor the domestic wastewater influent to the treatment facility in accordance with Special Condition S2 of this permit.

**Table 9: Reclaimed water**

The Permittee must monitor the reclaimed water to verify it meets the minimum biological oxidation performance standards. The compliance point for this monitoring is at the concrete effluent basin prior to distribution.

Reclaimed Water Monitoring			
Parameter	Units	Minimum Sampling Frequency	Sample Type
<b>(1) Source Water Monitoring</b>			
Flow	mgd	Continuous <sup>a</sup>	Metered
BOD <sub>5</sub>	mg/L	1/week	Grab <sup>b</sup>
TSS	mg/L	1/week	Grab <sup>b</sup>
pH	Standard Units	Daily	Grab <sup>b</sup>
Dissolved Oxygen	mg/L	Daily	Grab <sup>b</sup>
<b>(2) Membrane Filtration and Disinfection Monitoring</b>			
The Permittee must monitor the filtered reclaimed water after disinfection and before the concrete effluent basin for total chlorine residual. The Permittee must monitor total coliform at the concrete effluent basin.			
Total Chlorine Residual	mg/L	Daily	Grab <sup>b</sup>
Total Coliform <sup>c</sup>	#/100 mL	Daily	Grab <sup>b</sup>

<b>(3) Permit Renewal Monitoring</b>	
The Permittee may be required to conduct permit renewal monitoring during the final year of the permit as directed by the permit application.	
<b>Footnote</b>	<b>Information</b>
a	Continuous means uninterrupted except for brief lengths of time for calibration, for power failure, or for unanticipated equipment repair or maintenance. The Permittee must measure and record continuous data at least every 30 minutes.
b	Grab means an individual sample collected over a fifteen (15) minute, or less, period. Grab samples must be taken at the same time daily when water characteristics are the most demanding on the treatment facilities and disinfection processes.
c	Report a daily numerical value for total coliforms. Do not report a result as too numerous to count (TNTC). The Permittee must also calculate and report a daily value for the 7-day median as described in Reclaimed Water Condition R1.

**R2.B. Sampling and analytical procedures**

The Permittee must use sampling and analytical procedures consistent with Special Condition S2.B of this permit, with the following change. The Permittee may use sampling and analytical methods listed in either 40 CFR Part 136 (Guidelines Establishing Test Procedures for the Analysis of Pollutants) or 40 CFR Part 141 (National Primary Drinking Water Regulations) for reclaimed water monitoring.

**R2.C. Flow measurement, field measurement and continuous monitoring devices**

The Permittee must use flow measurement and continuous monitoring devices consistent with Special Condition S2.C of this permit.

**R2.D. Laboratory accreditation**

The Permittee must comply with the laboratory accreditation requirement in Special Condition S2.D of this permit.

**R3. Reporting and recording requirements**

The Permittee must monitor and report in accordance with Special Condition S3 of this permit and the following additional conditions.

### **R3.A. Discharge monitoring reports**

The first monitoring period begins on the effective date of the permit (unless otherwise specified). The Permittee must submit discharge monitoring reports to report the tabulated data in Reclaimed Condition R2 according to the instructions in Special Condition S3.A of this permit and the instructions below.

If the Permittee monitors any pollutant more frequently than required by Reclaimed Water Condition R2, then the Permittee must include the results of such monitoring in the calculation and reporting of the data submitted in the DMR, unless otherwise specified by Reclaimed Water Condition R2.

The Permittee must:

1. Report the highest value of any total coliform sample for each day if multiple samples were taken in one day.
2. Calculate the 7-day median values for total coliform using:
  - a. The reported numeric value for all daily total coliform samples measured above the detection value except when it took multiple samples in one day. If the Permittee takes multiple samples in one day it must use the highest value for the day in the 7-day median calculation.
  - b. The detection value for those samples measured below detection.

### **R3.B. Annual summary report**

The Permittee must submit an annual report by March 15<sup>th</sup> of each year using the Annual Report Questionnaire Form provided by Ecology in the Water Quality Permitting Portal – Permit Submittals application. The first annual summary report is due March 15, 2022 for the 2021 calendar year. The Permittee will generally provide summaries of reclaimed water production topics for the previous calendar year in the questionnaire. Summary topics include, but may not be limited to:

- Number of days of reclaimed water production and distribution.
- Total volume of reclaimed water produced and distributed.
- Total volume of reclaimed water distributed to each use category authorized in reclaimed condition R4.A.
- Total volume of off-spec reclaimed water diverted for disposal or retreatment, if any.
- Total volume of reclaimed water diverted from authorized use locations due to distribution system maintenance or repair.
- Number of reclaimed water quality limit violations reported on monthly DMRs, if any.

- Number of backflow incidents discovered and reported to water purveyors, if any.

In addition to providing the data listed above, the questionnaire will require the Permittee to upload supplemental summary documents that provide the following information:

- The annual volume of reclaimed water distributed to each use location.
- A list of any new users or distributors that signed agreements during the year.
- Description of the circumstances that led to the disposal of off-spec reclaimed water along with a description of corrective actions taken.
- A summary of any actions taken to enforce requirements in use or distribution agreements, including nature of the violation and the remedial action taken.
- A Cross-connection Control Program Summary.

### **R3.C. Records retention**

The Permittee must retain all records pertaining to the annual cross-connection control report that is submitted to the Department of Health, Office of Drinking Water, by the water purveyor(s) that provides potable water to any reclaimed water use area for a minimum of three (3) years. This report must identify all cross-connection control assemblies tested and any cross-connection incident that occurred relating to the reclaimed water system. This report only applies to those control assemblies under the control of the Permittee.

The Permittee must retain all records pertaining to the Reclaimed Water Use Plan for a minimum of three (3) years and must retain the plan onsite.

### **R3.D. Reporting permit violations**

In the event of an action that violates the terms and conditions of this permit, the Permittee must immediately take action to stop, contain, and remedy unauthorized generation, distribution, or use of reclaimed water. The Permittee must report the noncompliance as directed below.

#### **a. Immediate reporting**

1. The Permittee must immediately report to Ecology and the Local Health jurisdiction (at the numbers listed below), all noncompliance that threatens public health or the environment, including:
  - Any failure of the reclaimed water treatment system resulting in the distribution of improperly treated water.

- Plant bypasses resulting in distribution of improperly treated water. Overflows or leaks of transmission or irrigation pipelines that discharge to a waterbody used as a source of drinking or irrigation water.

Northwest Regional Office (425) 649-7000

Snohomish Health District (425) 339-5250 (business hours)  
(425) 339-5295 (after hours)

**b. Written violation reports**

The Permittee must also submit a written report within thirty days of the time that the Permittee becomes aware of any reportable event under subpart a above.

The report must contain:

1. A description of the noncompliance and its cause.
2. The period of noncompliance, including exact dates and times.
3. The estimated time the Permittee expects the noncompliance to continue if not yet corrected.
4. A description of the corrective actions taken.
5. Steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
6. Maps, drawings, aerial photographs, or pictures as necessary to show the location and cause(s) of the non-compliance.

**c. All other permit violation reporting**

The Permittee must report all permit violations that do not require reporting under subparts a or b according to the requirements in Special Condition S3.F of this permit.

**R4. Reclaimed Water Distribution and Use**

**R4.A. Authorized uses and locations**

1. The Permittee may produce and distribute Class B reclaimed water for the following beneficial uses: Irrigation of trees, fodder, fiber, or seed crops in pastures not accessed by milking animals.
2. The Permittee may only distribute water for beneficial use on the Warm Beach Christian Camps and Conference Center horse pasture.

3. All distribution and use of reclaimed water must comply with the terms and conditions of this permit. The distribution or release of inadequately treated water or the distribution and use of water to locations not identified in this permit is prohibited.

#### **R4.B. Use and distribution constraints**

The Permittee must document in its O&M Manual, as required by R6.C, procedures and practices operators will follow to ensure compliance with the distribution and use requirements described below.

##### **a. Distribution requirements**

The Permittee must comply with the following requirements for the distribution of reclaimed water produced at the permitted facility.

The Permittee must:

1. Label or color code all new reclaimed water piping, valves, outlets, storage facilities, and other appurtenances to identify the components as part of the reclaimed water distribution system. Color coding must be Pantone 512, 522 or other shade of purple color approved in the reclaimed water engineering report.
2. Maintain adequate separation between pipes conveying reclaimed water and any nearby sanitary sewer lines, storm sewer lines, potable water lines, and potable water wells.
3. Notify all owners of potable water supplies with sources within 1,000 feet of reclaimed water storage facilities. Notification requirement applies to all new reclaimed water storage facilities and existing storage facilities for which the Permittee has not previously provided notification.
4. Maintain a minimum 200 foot horizontal separation between reclaimed water distribution and storage infrastructure and all potable water intakes, including well heads, springs, surface water, or designated groundwater under the influence of surface water.
5. Manage cross-connection controls between reclaimed water and potable water as well as between reclaimed water and systems conveying lower quality waters, such as wastewaters and stormwater. Cross-connection controls must comply with the requirements in Reclaimed Water condition R4.C of this permit and with WAC 173-219-310.
6. Take appropriate steps to contain and divert to the sanitary sewer system or to an approved use area any reclaimed water released from the distribution system during distribution system maintenance. Maintenance releases may result line flushing or pipeline repair.

Any release of reclaimed water to surface water or to any area not identified in this permit or a signed use agreement is prohibited.

**b. Use requirements**

The Permittee must:

1. Describe the authorized use(s) of reclaimed water at the site covered by the permit.
2. Maintain a 50-foot setback of reclaimed water use from public access.
3. Follow the requirements for cross-connection control consistent with Permit Condition R4.C below.
4. Identification of the area where reclaimed water will be used. This identification must list whether the use area is included in a wellhead protection area or critical aquifer recharge area.
5. Have advisory notification at the use site. Advisory notices may include signs or distributed notices that include the following: "Reclaimed Water – Do Not Drink". The requirement may also use alternate language that is consistent with the Washington State Uniform Plumbing Code (WAC 51-56) or approved by the Department of Health.
6. Design all new pipes carrying reclaimed water at the use site to comply with labeling and separation requirements in reclaimed water condition R4.B.b above and WAC 173-219-360.
7. Restrict operation of reclaimed water valves and outlets at the use site to authorized personnel and restrict access to hose bibs on reclaimed water lines.
8. Establish Best Management Practices (BMPs) designed to prevent incidental site runoff.

**R4.C. Cross-connection control**

The Permittee must comply with the cross-connection control requirements in this permit and in WAC 173-219-310. It must take the actions specified below to eliminate or prevent cross-connections between water supplies at the reclaimed water production facility and throughout the reclaimed water distribution system.

**a. Cross-connection control program**

The Permittee must develop and implement a cross-connection control program to ensure protection of reclaimed water from lower quality water.

The program must document how the Permittee will coordinate with potable water purveyors to evaluate and prevent potential cross connection between reclaimed water and potable water supplies.

The program must ensure protection of reclaimed water at all stages, starting at the production facility and ending at the property line of each use location. The Permittee must ensure that all determinations of the appropriate method of backflow prevention needed to eliminate or control cross-connections is made by a cross-connection control specialist certified under RCW 70.119.

The Permittee must take the steps listed below to begin developing a cross-connection control program. The Permittee must evaluate areas of potential cross-connection within the treatment facility and distribution system and submit a Cross-Connection Evaluation Report to Ecology by June 1, 2022. The evaluation report must be completed by a certified Cross-Connection Control Specialist (CCS) and include the following:

1. An assessment of potential cross-connections at the facility and within the distribution system and use area.
2. Identification of alternatives for appropriate backflow prevention assemblies required to prevent or control each potential cross-connection.
3. An estimated schedule to install necessary backflow prevention assemblies.
4. Discussion of the implementation procedures for selected backflow prevention assembly along with procedures for periodic inspections and maintenance of inspection records.

Ecology will require the Permittee to finalize and implement the program, as outlined in R4.C.b below, by the start of the next permit term, with a final compliance date of March 31, 2026. The cross-connection control program must be incorporated into the O&M Manual and submitted to Ecology for review and approval per WAC 173-219-240.

The Permittee must also provide a status update on the development of the program as an element of the Annual Summary Report required in condition R3.B.

**b. Program requirements**

The Permittee must use good engineering practices in the development and implementation of the cross-connection control program. The program must include the following minimum elements:

1. Adoption of a local ordinance, resolution, code, bylaw, or other written legal instrument that establishes the Permittee's authority to implement the program; describes the program's operating policies and technical provisions; and establishes corrective actions needed to enforce the program.
2. Development and implementation procedures and schedules to eliminate or control cross-connections through the proper installation and periodic inspection of approved backflow prevention assemblies at new and existing use locations.
3. Adequate personnel to develop and implement the program, including at least one cross-connection control specialist certified under RCW 70.119.
4. Procedures for responding to backflow incidents.
5. Development and maintenance of a records system that documents locations where potential cross-connections exist; identifies properties where the Permittee provides reclaimed water; identifies the potable water purveyor supplying water to properties receiving reclaimed water, if potable supply is present; a detailed inventory of cross-connection control devices used at each location; and a system for providing annual reports of the cross-connection control program and backflow incident reports.

**c. Water purveyor coordination**

The Permittee must coordinate with all potable water purveyors in the service area of the reclaimed water system to eliminate potential cross-connections between the reclaimed water treatment and distribution systems and the potable water systems. The written cross-connection control program must document and describe the procedures used to coordinate with water purveyors and delineate responsibilities.

The Permittee must notify any water purveyor supplying potable water to the proposed use site of their intent to supply reclaimed water to the site. The notice must:

- describe the treatment requirements for the reclaimed water,
- identify the proposed use(s) at the site, and
- identify any proposed measures to protect the potable water supply.

The Permittee may not provide water to a use location before the potable water purveyor has certified that an appropriate backflow prevention assembly has been correctly installed on the potable supply line to the use location property.

**d. Backflow prevention assemblies**

Whenever the use of backflow prevention assemblies is necessary to prevent cross-connection between lower-quality water and higher-quality water, the Permittee must ensure that each assembly used is recognized as an approved device on the current *University of Southern California Foundation for Cross-Connection Control and Hydraulic Research* approved backflow assemblies list. The Permittee must review plans for each installation to verify that the device will not be submerged during flooding; that the installation will comply with applicable safety regulations; and that any bypass piping around a backflow prevention assembly includes at least the same level of protection as the assembly being bypassed.

The Permittee must inspect or test backflow protection assemblies, including air gaps, at the following intervals:

- At the time of installation to verify proper construction
- At least annually after installation. More frequent inspection may be required for assemblies installed at premises or in systems that may pose a high risk of cross-connection hazard or that have a repeated history of failure.
- After a backflow incident.
- After a repair, reinstallation, or relocation of a system.

**R4.D. Water rights protection**

The use of reclaimed water produced at the permitted facility must not impair any existing water right downstream of the freshwater discharge point(s) of the facility unless the Permittee makes appropriate compensation or mitigation to the affected right holder.

Existing water rights include any permits, claims, certificates, or instream flows established pursuant to RCW 90.22 and RCW 90.54, along with all federally reserved water rights existing at the time the Permittee completed their initial impairment analysis.

The Permittee must document in the next application for permit renewal how the use of reclaimed water from the permitted facility complies with the water rights protection provisions in WAC 173-219-090 and RCW 90.46.130.

**R5. Facility loading**

The Permittee must comply with the Facility Loading requirements in Special Condition S4 of this permit for the influent wastewater to the treatment facility.

## **R6. Operation and maintenance**

The Permittee must at all times properly operate and maintain all facilities or systems of treatment and control (and related appurtenances) installed to produce and distribute reclaimed water in compliance with the terms and conditions of this permit. Proper operation and maintenance includes keeping a daily operation logbook (paper or electronic), adequate laboratory controls, and appropriate quality assurance procedures.

The Permittee must keep maintenance records on all major electrical and mechanical components of the treatment plant and reclaimed water distribution system. Such records must clearly specify the frequency and type of maintenance recommended by the manufacturer and must show the frequency and type of maintenance performed. It must make maintenance records available for inspection at all times.

This condition supplements Operations and Maintenance requirements in Special Condition S5 of this permit.

### **R6.A. Certified operator**

The Permittee must comply with the Operator Certification requirements in Special Condition S5 of this permit.

### **R6.B. Treatment reliability**

The Permittee must ensure compliance with the reliability requirements of WAC 173-219-350. It must use adequate safeguards to prevent the distribution of water that is not treated in accordance with the requirements of this permit. Adequate safeguards include, but are not limited to alarms to alert operators of problems, use of redundant power sources, retention of inadequately treated wastes, and automatic diversions of water to storage or other authorized disposal when problems occur.

#### **a. Reclaimed water bypass prohibited**

The Permittee must not bypass inadequately treated wastewater from the permitted facility to the distribution system or any point of use. It must divert any water not treated in accordance with the reclaimed water requirements of this permit to storage for retreatment or to disposal as authorized by Special Condition S1 of this permit.

#### **b. Alarms and automatic diversion**

The Permittee must use alarm systems at the permitted facility to alert operators to failures in critical treatment unit processes. All alarms must sound at an attended location or through an automated notification system that will alert a designated, on-call operator of the need to take corrective action.

The alarm system must include automated response programming that, upon failure of a critical system, starts back-up components, diverts water to storage, or diverts water to authorized disposal.

Critical systems include, but are not limited to, primary plant power supply, biological treatment, membrane filtration and disinfection treatment processes. Any programming to automatically divert water to storage or disposal must include a requirement for an operator to manually reset after verifying correction of the initial failure.

**c. Power supply**

The Permittee must at all time maintain power sufficient to operate all vital treatment components, alarms, and critical lighting and ventilation during peak flow conditions. Vital treatment components include biological treatment units, membrane filtration and disinfection. Upon loss of primary power, the Permittee must ensure one of the following actions occur.

1. An alarm alerts the plant operator to the loss of power and automated flow control equipment divert wastewater to storage for retreatment after power returns.
2. An alarm alerts the plant operator to the loss of power and automated flow control equipment divert wastewater to an authorized disposal location.

The power supply to all alarms and automated flow diversion equipment must be independent of the primary power supply for the reclaimed water facility or use an independent, uninterruptible back-up power source.

**d. Restoring service**

The Permittee may not restore reclaimed water distribution until appropriate back-up systems have been brought online or until the plant failure has been corrected.

It must develop and implement checklists and standard operating procedures for operators to use in determining that the plant has been restored to normal operation. The checklists and standard operating procedures must be included in the operations and maintenance manual approved by Ecology in accordance with Reclaimed Water Condition R6.C.

**e. Short-term reduction**

The Permittee must schedule any facility maintenance, which might require interruption of reclaimed water treatment system and degrade reclaimed water quality, during non-critical production periods and carry this maintenance out according to the approved O&M manual or as otherwise approved by Ecology.

If a Permittee contemplates a reduction in the level of treatment that would cause a violation of permit discharge limits on a short-term basis for any reason, and such reduction cannot be avoided, the Permittee must:

1. Give written notification to Ecology, if possible, thirty (30) days prior to such activities.
2. Detail the reasons for, length of time of, and the potential effects of the reduced level of treatment.
3. Store inadequately treated flow and retreat after full treatment capability has been restored, or divert all inadequately treated flow to permitted disposal.
4. If available storage capacity is insufficient to store all flow during the short-term reduction period and permitted disposal is not available, the Permittee must work with Ecology to develop options for managing the excess off-spec water.
5. Follow the requirements for "Restoring service" listed above before resuming reclaimed water production.

This notification does not relieve the Permittee of its obligations under this permit.

**R6.C. Operations and maintenance manual**

The Permittee must at all times operate and maintain all facilities or systems of control installed to achieve compliance with the reclaimed water conditions in this permit according to the instructions in an Operations and Maintenance (O&M) manual approved by Ecology. The required content for the O&M manual for the reclaimed water facility, outlined below, should be incorporated into the overall wastewater treatment O&M manual (S5.G).

**a. O&M manual submittal and requirements**

The Permittee must:

1. Update the O&M Manual to meet the requirements of WAC 173-219-240 and submit it to Ecology for approval prior to reclaimed water production and distribution.

2. Submit to Ecology for review and approval substantial changes or updates to the O&M Manual whenever it incorporates them into the manual.
3. Keep the approved O&M Manual at the permitted facility.
4. Follow the instructions and procedures of this manual.

**b. O&M manual components**

The O&M manual for the reclaimed water facility must include all contents listed in WAC 173-219-240(2) and be consistent with the guidance in section 5.2.6 of the *Reclaimed Water Facilities Manual* (Purple Book). The Permittee may also use the guidance in Table G1-3 in the *Criteria for Sewage Works Design* (Orange Book), 2008. Required content for the O&M manual include, but are not limited to:

1. Emergency procedures for plant shutdown and cleanup in event of wastewater or reclaimed water system upset or failure, or distribution system leak.
2. System maintenance procedures that contribute to the generation of wastewater or may result in the discharge of reclaimed water at an unauthorized location.
3. A review of system components which if failed could pollute surface water or could impact human health. Provide a procedure for a routine schedule of checking the function of these components.
4. Reporting protocols for submitting reports to Ecology to comply with the reporting requirements in this permit.
5. Any directions to maintenance staff when cleaning, or maintaining other equipment or performing other tasks which are necessary to protect the operation of the wastewater or reclaimed water system (for example, defining maximum allowable discharge rate for draining a tank, blocking all floor drains before beginning the overhaul of a stationary engine).
6. Treatment plant process control monitoring schedule.
7. Sampling protocols and procedures for compliance with the sampling and reporting requirements in the reclaimed water permit.
8. Procedures to ensure that "off spec" reclaimed water is re-treated so that it meets all reclaimed water permit limits or is discharged through an approved NPDES outfall according to the terms and conditions of the NPDES permit. "Off spec" refers to water produced by the reclaimed water facility that does not meet required water quality requirements or is otherwise not treated according to the requirements of this reclaimed water permit.

9. Description of all uses of water produced at the facility for internal purposes (i.e. for washing or cleaning equipment at the treatment facility).
10. Procedures to decontaminate reclaimed water piping and other appurtenances prior to returning the facilities to reclaimed water service following incidents when off spec reclaimed water is produced or when non-reclaimed water is produced for disposal to Puget Sound.
11. Minimum staffing adequate to operate and maintain the treatment processes and carry out compliance monitoring required by the permit.
12. Documentation of procedures and practices operators will follow to ensure compliance with the distribution and use requirements as outlined in R4.B.

## **R7. Pretreatment and source control**

The Permittee must implement source water controls that prevent the presence of substances that may affect the reclaimed water quality or impact the ability to produce reclaimed water in accordance with this permit. The treatment of domestic sewage used as a source water for the permitted facility must comply with special condition S6, Pretreatment, of this permit.

## **R8. Solid wastes**

The Permittee must comply with the solid waste requirements in Special Condition S7 of this permit.

## **R9. Application for permit renewal or modification for facility changes**

The Permittee must submit an application for renewal of this permit by June 30, 2025.

The Permittee must also submit a new or supplemental application at least one hundred eighty (180) days prior to commencement of discharges, resulting from the activities listed below, which may result in permit violations. These activities include increasing the class of water produced at the permitted facility from Class B to Class A; facility expansions, production increases, or other planned changes, such as process modifications, in the permitted facility.

## General Conditions

### G1. Signatory requirements

1. All applications submitted to Ecology must be signed and certified.
  - a. In the case of corporations, by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
    - A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation, or
    - The manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
  - b. In the case of a partnership, by a general partner.
  - c. In the case of sole proprietorship, by the proprietor.
  - d. In the case of a municipal, state, or other public facility, by either a principal executive officer or ranking elected official.

Applications for permits for domestic wastewater facilities that are either owned or operated by, or under contract to, a public entity shall be submitted by the public entity.
2. All reports required by this permit and other information requested by Ecology must be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
  - a. The authorization is made in writing by a person described above and submitted to Ecology.
  - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters.

(A duly authorized representative may thus be either a named individual or any individual occupying a named position).

3. Changes to authorization. If an authorization under paragraph G1.2, above, is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph G1.2, above, must be submitted to Ecology prior to or together with any reports, information, or applications to be signed by an authorized representative.

4. Certification. Any person signing a document under this section must make the following certification:

"I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

## **G2. Right of inspection and entry**

The Permittee must allow an authorized representative of Ecology, upon the presentation of credentials and such other documents as may be required by law:

1. To enter upon the premises where a discharge is located or where any records must be kept under the terms and conditions of this permit.
2. To have access to and copy, at reasonable times and at reasonable cost, any records required to be kept under the terms and conditions of this permit.
3. To inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, methods, or operations regulated or required under this permit.
4. To sample or monitor, at reasonable times, any substances or parameters at any location for purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act.

## **G3. Permit actions**

This permit may be modified, revoked and reissued, or terminated either at the request of any interested person (including the Permittee) or upon Ecology's initiative. However, the permit may only be modified, revoked and reissued, or terminated for the reasons specified in 40 CFR 122.62, 40 CFR 122.64 or WAC 173-220-150 according to the procedures of 40 CFR 124.5.

1. The following are causes for terminating this permit during its term, or for denying a permit renewal application:
  - a. Violation of any permit term or condition.
  - b. Obtaining a permit by misrepresentation or failure to disclose all relevant facts.
  - c. A material change in quantity or type of waste disposal.
  - d. A determination that the permitted activity endangers human health or the environment, or contributes to water quality standards violations and can only be regulated to acceptable levels by permit modification or termination.
  - e. A change in any condition that requires either a temporary or permanent reduction, or elimination of any discharge or sludge use or disposal practice controlled by the permit.
  - f. Nonpayment of fees assessed pursuant to RCW 90.48.465.
  - g. Failure or refusal of the Permittee to allow entry as required in RCW 90.48.090.
  
2. The following are causes for modification but not revocation and reissuance except when the Permittee requests or agrees:
  - a. A material change in the condition of the waters of the state.
  - b. New information not available at the time of permit issuance that would have justified the application of different permit conditions.
  - c. Material and substantial alterations or additions to the permitted facility or activities which occurred after this permit issuance.
  - d. Promulgation of new or amended standards or regulations having a direct bearing upon permit conditions, or requiring permit revision.
  - e. The Permittee has requested a modification based on other rationale meeting the criteria of 40 CFR Part 122.62.
  - f. Ecology has determined that good cause exists for modification of a compliance schedule, and the modification will not violate statutory deadlines.
  - g. Incorporation of an approved local pretreatment program into a municipality's permit.
  
3. The following are causes for modification or alternatively revocation and reissuance:
  - a. When cause exists for termination for reasons listed in 1.a through 1.g of this section, and Ecology determines that modification or revocation and reissuance is appropriate.

- b. When Ecology has received notification of a proposed transfer of the permit. A permit may also be modified to reflect a transfer after the effective date of an automatic transfer (General Condition G7) but will not be revoked and reissued after the effective date of the transfer except upon the request of the new Permittee.

#### **G4. Reporting planned changes**

The Permittee must, as soon as possible, but no later than one hundred eighty (180) days prior to the proposed changes, give notice to Ecology of planned physical alterations or additions to the permitted facility, production increases, or process modification which will result in:

1. The permitted facility being determined to be a new source pursuant to 40 CFR 122.29(b).
2. A significant change in the nature or an increase in quantity of pollutants discharged.
3. A significant change in the Permittee's sludge use or disposal practices. Following such notice, and the submittal of a new application or supplement to the existing application, along with required engineering plans and reports, this permit may be modified, or revoked and reissued pursuant to 40 CFR 122.62(a) to specify and limit any pollutants not previously limited. Until such modification is effective, any new or increased discharge in excess of permit limits or not specifically authorized by this permit constitutes a violation.

#### **G5. Plan review required**

Prior to constructing or modifying any wastewater control facilities, an engineering report and detailed plans and specifications must be submitted to Ecology for approval in accordance with chapter 173-240 WAC. Engineering reports, plans, and specifications must be submitted at least one hundred eighty (180) days prior to the planned start of construction unless a shorter time is approved by Ecology. Facilities must be constructed and operated in accordance with the approved plans.

#### **G6. Compliance with other laws and statutes**

Nothing in this permit excuses the Permittee from compliance with any applicable federal, state, or local statutes, ordinances, or regulations.

#### **G7. Transfer of this permit**

In the event of any change in control or ownership of facilities from which the authorized discharge emanate, the Permittee must notify the succeeding owner or controller of the existence of this permit by letter, a copy of which must be forwarded to Ecology.

1. Transfers by Modification

Except as provided in paragraph (2) below, this permit may be transferred by the Permittee to a new owner or operator only if this permit has been modified or revoked and reissued under 40 CFR 122.62(b)(2), or a minor modification made under 40 CFR 122.63(d), to identify the new Permittee and incorporate such other requirements as may be necessary under the Clean Water Act.

2. Automatic Transfers

This permit may be automatically transferred to a new Permittee if:

- a. The Permittee notifies Ecology at least thirty (30) days in advance of the proposed transfer date.
- b. The notice includes a written agreement between the existing and new Permittees containing a specific date transfer of permit responsibility, coverage, and liability between them.
- c. Ecology does not notify the existing Permittee and the proposed new Permittee of its intent to modify or revoke and reissue this permit. A modification under this subparagraph may also be minor modification under 40 CFR 122.63. If this notice is not received, the transfer is effective on the date specified in the written agreement.

**G8. Reduced production for compliance**

The Permittee, in order to maintain compliance with its permit, must control production and/or all discharges upon reduction, loss, failure, or bypass of the treatment facility until the facility is restored or an alternative method of treatment is provided. This requirement applies in the situation where, among other things, the primary source of power of the treatment facility is reduced, lost, or fails.

**G9. Removed substances**

Collected screenings, grit, solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters must not be resuspended or reintroduced to the final effluent stream for discharge to state waters.

**G10. Duty to provide information**

The Permittee must submit to Ecology, within a reasonable time, all information which Ecology may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Permittee must also submit to Ecology upon request, copies of records required to be kept by this permit.

### **G11. Other requirements of 40 CFR**

All other requirements of 40 CFR 122.41 and 122.42 are incorporated in this permit by reference.

### **G12. Additional monitoring**

Ecology may establish specific monitoring requirements in addition to those contained in this permit by administrative order or permit modification.

### **G13. Payment of fees**

The Permittee must submit payment of fees associated with this permit as assessed by Ecology.

### **G14. Penalties for violating permit conditions**

Any person who is found guilty of willfully violating the terms and conditions of this permit is deemed guilty of a crime, and upon conviction thereof shall be punished by a fine of up to ten thousand dollars (\$10,000) and costs of prosecution, or by imprisonment in the discretion of the court. Each day upon which a willful violation occurs may be deemed a separate and additional violation.

Any person who violates the terms and conditions of a waste discharge permit may incur, in addition to any other penalty as provided by law, a civil penalty in the amount of up to ten thousand dollars (\$10,000) for every such violation. Each and every such violation is a separate and distinct offense, and in case of a continuing violation, every day's continuance is deemed to be a separate and distinct violation.

### **G15. Upset**

Definition – “Upset” means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limits because of factors beyond the reasonable control of the Permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limits if the requirements of the following paragraph are met.

A Permittee who wishes to establish the affirmative defense of upset must demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

1. An upset occurred and that the Permittee can identify the cause(s) of the upset.
2. The permitted facility was being properly operated at the time of the upset.

3. The Permittee submitted notice of the upset as required in Special Condition S3.F.
4. The Permittee complied with any remedial measures required under S3.F of this permit.

In any enforcement action the Permittee seeking to establish the occurrence of an upset has the burden of proof.

### **G16. Property rights**

This permit does not convey any property rights of any sort, or any exclusive privilege.

### **G17. Duty to comply**

The Permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

### **G18. Toxic pollutants**

The Permittee must comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if this permit has not yet been modified to incorporate the requirement.

### **G19. Penalties for tampering**

The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than two (2) years per violation, or by both. If a conviction of a person is for a violation committed after a first conviction of such person under this condition, punishment shall be a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than four (4) years, or by both.

### **G20. Compliance schedules**

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit must be submitted no later than fourteen (14) days following each schedule date.

## **G21. Service agreement review**

The Permittee must submit to Ecology any proposed service agreements and proposed revisions or updates to existing agreements for the operation of any wastewater treatment facility covered by this permit.

The review is to ensure consistency with chapters 90.46 and 90.48 RCW as required by RCW 70.150.040(9). In the event that Ecology does not comment within a thirty-day (30) period, the Permittee may assume consistency and proceed with the service agreement or the revised/updated service agreement.

## Appendix A

### List of Pollutants with Analytical Methods, Detection Limits, and Quantitation Levels

The Permittee must use the specified analytical methods, detection limits (DLs) and quantitation levels (QLs) in the following table for permit and application required monitoring unless:

- Another permit condition specifies other methods, detection levels, or quantitation levels.
- The method used produces measurable results in the sample and EPA has listed it as an EPA-approved method in 40 CFR Part 136.

If the Permittee uses an alternative method, not specified in the permit and as allowed above, it must report the test method, DL, and QL on the discharge monitoring report or in the required report.

If the Permittee is unable to obtain the required DL and QL in its effluent due to matrix effects, the Permittee must submit a matrix-specific detection limit (MDL) and a quantitation limit (QL) to Ecology with appropriate laboratory documentation.

When the permit requires the Permittee to measure the base neutral compounds in the list of priority pollutants, it must measure all of the base neutral pollutants listed in the table below. The list includes EPA required base neutral priority pollutants and several additional polynuclear aromatic hydrocarbons (PAHs). The Water Quality Program added several PAHs to the list of base neutrals below from Ecology's Persistent Bioaccumulative Toxics (PBT) List. It only added those PBT parameters of interest to Appendix A that did not increase the overall cost of analysis unreasonably.

Ecology added this appendix to the permit in order to reduce the number of analytical "non-detects" in permit-required monitoring and to measure effluent concentrations near or below criteria values where possible at a reasonable cost.

The lists below include conventional pollutants (as defined in CWA section 502(6) and 40 CFR Part 122.), toxic or priority pollutants as defined in CWA section 307(a)(1) and listed in 40 CFR Part 122 Appendix D, 40 CFR Part 401.15 and 40 CFR Part 423 Appendix A), and nonconventionals. 40 CFR Part 122 Appendix D (Table V) also identifies toxic pollutants and hazardous substances which are required to be reported by dischargers if expected to be present. This permit appendix A list does not include those parameters.

**Table 1: Conventional Pollutants**

<b>Pollutant</b>	<b>CAS Number (if available)</b>	<b>Recommended Analytical Protocol</b>	<b>Detection (DL)<sup>1</sup> µg/L unless specified</b>	<b>Quantitation Level (QL)<sup>2</sup> µg/L unless specified</b>
Biochemical Oxygen Demand		SM5210-B		2 mg/L
Biochemical Oxygen Demand, Soluble		SM5210-B <sup>3</sup>		2 mg/L
Fecal Coliform		SM 9221E,9222	N/A	Specified in method - sample aliquot dependent
Oil and Grease (HEM) (Hexane Extractable Material)		1664 A or B	1,400	5,000
pH		SM4500-H <sup>+</sup> B	N/A	N/A
Total Suspended Solids		SM2540-D		5 mg/L

**Table 2: Nonconventional Pollutants**

<b>Pollutant &amp; CAS No. (if available)</b>	<b>CAS Number (if available)</b>	<b>Recommended Analytical Protocol</b>	<b>Detection (DL)<sup>1</sup> µg/L unless specified</b>	<b>Quantitation Level (QL)<sup>2</sup> µg/L unless specified</b>
Alkalinity, Total		SM2320-B		5 mg/L as CaCO <sub>3</sub>
Aluminum, Total	7429-90-5	200.8	2.0	10
Ammonia, Total (as N)		SM4500-NH <sub>3</sub> -B and C/D/E/G/H		20
Barium Total	7440-39-3	200.8	0.5	2.0
BTEX (benzene +toluene + ethylbenzene + m,o,p xylenes)		EPA SW 846 8021/8260	1	2
Boron, Total	7440-42-8	200.8	2.0	10.0
Chemical Oxygen Demand		SM5220-D		10 mg/L
Chloride		SM4500-Cl B/C/D/E and SM4110 B		Sample and limit dependent
Chlorine, Total Residual		SM4500 Cl G		50.0
Cobalt, Total	7440-48-4	200.8	0.05	0.25
Color		SM2120 B/C/E		10 color units
Dissolved oxygen		SM4500-OC/OG		0.2 mg/L
Flow		Calibrated device		
Fluoride	16984-48-8	SM4500-F E	25	100

Pollutant & CAS No. (if available)	CAS Number (if available)	Recommended Analytical Protocol	Detection (DL) <sup>1</sup> µg/L unless specified	Quantitation Level (QL) <sup>2</sup> µg/L unless specified
Hardness, Total		SM2340B		200 as CaCO <sub>3</sub>
Iron, Total	7439-89-6	200.7	12.5	50
Magnesium, Total	7439-95-4	200.7	10	50
Manganese, Total	7439-96-5	200.8	0.1	0.5
Molybdenum, Total	7439-98-7	200.8	0.1	0.5
Nitrate + Nitrite Nitrogen (as N)		SM4500-NO <sub>3</sub> -E/F/H		100
Nitrogen, Total Kjeldahl (as N)		SM4500-N <sub>org</sub> B/C and SM4500NH <sub>3</sub> -B/C/D/EF/G/H		300
Phosphorus, Total (as P)		SM 4500 PB followed by SM4500-PE/PF	3	10
Salinity		SM2520-B		3 practical salinity units or scale (PSU or PSS)
Settleable Solids		SM2540 -F		Sample and limit dependent
Soluble Reactive Phosphorus (as P)		SM4500-P E/F/G	3	10
Sulfate (as mg/L SO <sub>4</sub> )		SM4110-B		0.2 mg/L
Sulfide (as mg/L S)		SM4500-S <sup>2</sup> F/D/E/G		0.2 mg/L
Sulfite (as mg/L SO <sub>3</sub> )		SM4500-SO <sub>3</sub> B		2 mg/L
Temperature (max. 7-day avg.)		Analog recorder or Use micro-recording devices known as thermistors		0.2° C
Tin, Total	7440-31-5	200.8	0.3	1.5
Titanium, Total	7440-32-6	200.8	0.5	2.5
Total Coliform		SM 9221B, 9222B, 9223B	N/A	Specified in method - sample aliquot dependent
Total Organic Carbon		SM5310-B/C/D		1 mg/L
Total dissolved solids		SM2540 C		20 mg/L

1. Detection level (DL) or detection limit means the minimum concentration of an analyte (substance) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero as determined by the procedure given in 40 CFR part 136, Appendix B.
2. Quantitation Level (QL) also known as Minimum Level of Quantitation (ML) – The lowest level at which the entire analytical system must give a recognizable signal and acceptable calibration point for the analyte. It is equivalent to the concentration of the lowest calibration standard, assuming that the lab has used all method-specified sample weights, volumes, and cleanup procedures. The QL is calculated by multiplying the MDL by 3.18 and rounding the result to the number nearest to  $(1, 2, \text{ or } 5) \times 10^n$ , where n is an integer. (64 FR 30417).

ALSO GIVEN AS:

The smallest detectable concentration of analyte greater than the Detection Limit (DL) where the accuracy (precision & bias) achieves the objectives of the intended purpose. (Report of the Federal Advisory Committee on Detection and Quantitation Approaches and Uses in Clean Water Act Programs Submitted to the US Environmental Protection Agency December 2007).

3. Soluble Biochemical Oxygen Demand method note: First, filter the sample through a Millipore Nylon filter (or equivalent) - pore size of 0.45-0.50 um (prep all filters by filtering 250 ml of laboratory grade deionized water through the filter and discard). Then, analyze sample as per method 5210-B.

## Appendix B

### Sample Annual Report Questionnaire

Condition R3.B requires the Permittee to submit an annual report using a questionnaire form in the Water Quality Permitting Portal – Permit Submittals application. The following table provides an example of the questions that will appear in the form. While Ecology’s goal is to maintain consistency between this sample and the questions asked in the Permitting Portal, the permit condition requires the Permittee to answer the questions as they appear on the web form. Ecology may periodically alter the questions in the web form to improve clarity in the way questions are asked.

The questionnaire will require the Permittee to either fill in numbers, upload files for supporting documents, or answer “yes/no” questions. Most “yes/no” questions will trigger a need to supply additional information or files if the Permittee answers “yes”.

Where the questionnaire asks the Permittee to upload a file, Ecology prefers a single file upload. The Permittee may, however, upload multiple files for a single question, if needed. The Portal application provides instructions for uploading multiple files.

Question Number	Permit Section	Question	Expected Response
1a	R3.B	How many days did the facility produce reclaimed water during the last year?	enter number
1b	R3.B	How many days did the facility distribute reclaimed water during the last year?	enter number
2a	R3.B	What was the total volume (in millions of gallons) of reclaimed water produced during the last year?	enter number
2b	R3.B	What was the total volume (in millions of gallons) of reclaimed water distributed during the last year?	enter number
3	R3.B	Reclaimed Water Distribution Summary: Using the file upload box below, please attach a file (spreadsheet or written report) that provides a detailed breakdown of reclaimed water distributed to each authorized user. In addition, please use the data fields in questions 3a through 3j below to report the volume of reclaimed water distributed to each use category authorized in your permit (enter volume in millions of gallons).	upload file
3a	R3.B	<i>Indoor Uses</i>	enter number
3b	R3.B	<i>Commercial, Industrial, and Institutional Uses</i>	enter number
3c	R3.B	<i>Irrigation – Class A food crops</i>	enter number
3d	R3.B	<i>Irrigation – Class A other</i>	enter number
3e	R3.B	<i>Irrigation – Class B process food crops, nonfood crops, and orchard frost protection</i>	enter number
3f	R3.B	<i>Irrigation – Class B other</i>	enter number
3g	R3.B	<i>Wetland Enhancement (all classes)</i>	enter number
3h	R3.B	<i>Surface Water Augmentation</i>	enter number
3i	R3.B	<i>Groundwater Recharge (direct and indirect)</i>	enter number
3j	R3.B	<i>Aquifer Storage and Recovery</i>	enter number
<i>Questions 3a-3j will include an option to check “N/A” for any use that category that is not applicable to the permit.</i>			
4	R4.B.a	Were any new user or distributors added to the system during the last year?	Yes or No
4a	R4.B.a	Attach a list identifying the new users, the type of uses, and the use locations along with the date of Ecology’s approval of the use agreement.	upload file

Question Number	Permit Section	Question	Expected Response
5	R4.B.d	Were any actions taken during the last year to enforce requirements of a use or distribution agreement?	Yes or No
5a	R4.B.d	<i>Attach a file identifying the user or distributor involved, the nature of the violation, and the remedial actions taken.</i>	<i>upload file</i>
6	R3.B	Were there any reclaimed water limit violations reported on monthly DMRs during the last year (includes all limits associated with reclaimed water production as well as distribution system chlorine residual limits, if applicable)?	Yes or No
6a	R3.B	<i>How many violations were reported?</i>	<i>enter number</i>
7	R6.B.a	Did the facility diverted off-spec reclaimed water for disposal or retreatment during the last year?	Yes or No
7a	R6.B.a	<i>What volume of water was diverted (in millions of gallons)?</i>	<i>enter number</i>
7b	R6.B.a	<i>Please attach a file that describes the circumstances that required diversion and the steps taken to remedy.</i>	<i>upload file</i>
8	R4.B.b.7	Was any reclaimed water diverted from authorized use locations due to distribution system maintenance or repair?	Yes or No
8a	R4.B.b.7	<i>What volume of water was diverted (in millions of gallons)?</i>	<i>enter number</i>
8b	R4.B.b.7	<i>Please attach a file that describes the circumstances that required diversion and the steps taken to remedy.</i>	<i>upload file</i>
9	R3.G.a.3	Were any backflow incidents discovered and reported during the last year?	Yes or No
9a	R3.G.a.3	<i>How many incidents were reported?</i>	<i>enter number</i>
9b	R3.G.a.3	<i>Attach a document that summarizes the reported incidents and remedial actions taken.</i>	<i>upload file</i>
10	R4.C	Cross-Connection Control Summary: Does your permit include a requirement to submit an annual Cross-Connection Control Summary Report?	Yes or No
10a	R4.C	<i>Select the type of summary your permit requires:</i>	<i>Select report type from menu</i>
10b	R4.C	<i>If 'other' selected please describe the type of summary:</i>	<i>enter text to describe report type, if "other" selected in question 10a</i>
10c	R4.C	<i>Attach a document or documents that provide the required summary report</i>	<i>upload file</i>
<i>Questions 4a, 5a, 6a, 7a, 7b, 8a, 8b, 9a, 9b, 10a, 10b, and 10c are conditional questions that will only appear if the Permittee answers "Yes" in questions 4, 5, 6, 7, 8, 9 or 10, respectively.</i>			