



Issuance Date: __?__

Effective Date: __?__

Expiration Date: __?__

STATE WASTE DISCHARGE PERMIT ST0045528

State of Washington DEPARTMENT OF ECOLOGY

Industrial Section
PO Box 47600
Olympia WA 98504-7600

In compliance with the provisions of
The State of Washington Water Pollution Control Law
Chapter 90.48 Revised Code of Washington

Tesoro Logistics Operations LLC
7969 N Texas Rd
Anacortes, WA 98221

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

Facility Location:
7969 N Texas Rd
Anacortes, WA 98221

Industry Type: Crude Oil and Light
Products Bulk Storage and Loading/Off-Loading Facility

Treatment Works Receiving Discharge:
Tesoro Refining & Marketing Company LLC
Wastewater Treatment Plant

SIC Codes: 4789, 5171
NAICS Code: 488210

James DeMay, P.E.
Industrial Section Manager
Washington State Department of
Ecology

DRAFT

State Waste Discharge Permit ST0045528	1
SUMMARY OF PERMIT SUBMITTALS.....	4
SPECIAL CONDITIONS.....	5
S1. Discharge limits.....	5
S2. Monitoring requirements	5
S2.A. Monitoring schedule	5
S2.B. Sampling and analytical procedures	10
S2.C. Flow measurement, field measurement, and continuous monitoring devices.....	10
S2.D. Laboratory accreditation.....	11
S2.E. Request for reduction in monitoring	11
S3. Reporting and recording requirements.....	11
S3.A. Discharge Monitoring Reports.....	11
S3.B. Permit submittals and schedules.....	12
S3.C. Records retention.....	13
S3.D. Recording of results	13
S3.E. Additional monitoring by the Permittee.....	13
S3.F. Reporting permit violations.....	13
S3.G. Other reporting	14
S3.H. Maintaining a copy of this permit.....	15
S3.I. Dangerous waste discharge notification.....	15
S3.J. Spill notification	15
S4. Operation and maintenance.....	15
S4.A. Operations and maintenance (O&M) manual	15
S5. Prohibited discharges	16
S5.A. General prohibitions	16
S5.B. Specific prohibitions	16
S5.C. Prohibited unless approved.....	17
S6. Dilution prohibited	17
S7. Solid wastes.....	17
S7.A. Solid waste handling	17
S7.B. Leachate	17
S8. Application for permit renewal or modification for facility changes	17
S9. Non-routine and unanticipated wastewater	18
S9.A. Notification requirements	18
S9.B. Chemical analysis	18
S9.C. Approval requirements	18
S10. Spill control plan	18
S10.A. Spill control plan submittals and requirements	18
S10.B. Spill control plan components	19
REFERENCES	20
GENERAL CONDITIONS.....	21

G1.	Signatory requirements.....	21
G2.	Right of entry	22
G3.	Permit actions.....	22
G4.	Reporting a cause for modification	23
G5.	Plan review required	23
G6.	Compliance with other laws and statutes.....	23
G7.	Transfer of this permit.....	23
G8.	Reduced production for compliance	23
G9.	Removed substances	24
G10.	Payment of fees.....	24
G11.	Penalties for violating permit conditions.....	24
G12.	Duty to provide information.....	24
G13.	Duty to comply.....	24
APPENDIX A – List of Pollutants, Analytical Methods, Detection Levels and Quantitation Levels		25
Table 1 - Summary of Permit Submittals.....		4
Table 2 – Crude Railcar Off-Loading Facility wastewater discharge to PWTS (MPC CRLF).....		6
Table 3 – Light Products Truck/Rail Loading Facility wastewater discharge to PWTS (MPC LPLF)		6
Table 4 – Light Products Truck/Rail Loading Facility stormwater discharge to PWTS (MPC LPSW).....		7
Table 5 – Marine Crude Storage Terminal wastewater discharge to PWTS (MPC MCST)		7
Table 6 – Marine Crude Storage Terminal stormwater discharge to PWTS (MPC MCSW).....		8
Table 7 – Refinery Products Storage Facility wastewater discharge to PWTS (MPC RPSF)		8
Table 8 – Refinery Products Storage Facility stormwater discharge to PWTS (MPC RPSW)		8
Table 9 – Wharf Facility wastewater discharge to PWTS (MPC WF).....		9
Appendix A Table 1 – Conventional pollutants.....		25
Appendix A Table 2 - Nonconventional pollutants.....		26
Appendix A Table 3 - Priority pollutants: Metals, chromium (hex), cyanide & total phenols.....		28
Appendix A Table 4 - Priority pollutants: Acid compounds		29
Appendix A Table 5 - Priority pollutants: Volatile compounds		29
Appendix A Table 6 - Priority pollutants: Base/neutral compounds.....		31
Appendix A Table 7 - Dioxin.....		32
Appendix A Table 8 - Pesticides and PCBs		33

SUMMARY OF PERMIT SUBMITTALS

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

Table 1 - Summary of Permit Submittals

Permit Section	Submittal	Frequency	First Submittal Date
S3.A	Monthly Discharge Monitoring Report (DMR)	Monthly	Enter a specific date
S3.A	Single sample data – DMR	1/permit cycle	January 15, 2028
S3.F	Reporting permit violations	As necessary	
S4.A	Operations and Maintenance manual submittal	1/permit cycle	Enter a specific date (1 year after permit effective)
S4.A	Operations and Maintenance manual update	As necessary	
S8	Application for permit renewal	1/permit cycle	Enter a specific date (1 year prior to expiration)
S9	Non-routine and unanticipated discharge	As necessary	
S10.A	Spill control plan update	As necessary	
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	

SPECIAL CONDITIONS

S1. Discharge 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 and in the permit application violates the terms and conditions of this permit.

Beginning on the effective date of this permit, the Permittee may discharge process wastewater and stormwater as described in the permit application from the Crude Railcar Off-Loading Facility, Light Products Truck/Rail Loading Facility, Marine Crude Storage Terminal, Refinery Products Storage Facility, and Wharf Facility to the Tesoro Refining and Marketing Company LLC Industrial Wastewater Treatment System and stormwater system at the Tesoro Anacortes Refinery. This is the receiving Private Wastewater Treatment System (PWTS). The discharge locations can be found in S2.

There are no effluent limits for this discharge.

S2. Monitoring requirements

S2.A. Monitoring schedule

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

A list of all monitoring points and their respective monitoring point code (MPC) is included below. The Permittee must monitor in accordance with the defined monitoring points. The Permittee may request an alternative but equivalent monitoring location for a monitoring point upon approval. The coordinates listed for each monitoring point is the point where ownership changes from the Permittee to the PWTS. The Permittee must monitor and sample the waste streams for each monitoring point at locations that are representative of the discharge to the PWTS as required by S2.B.

- MPC CRLF - Wastewater discharged from the Crude Railcar Off-loading Facility to the Tesoro Anacortes Refinery oily water sewer.
- MPC LPLF - Wastewater discharge from the Light Products Truck/Rail Loading Facility to the Tesoro Anacortes Refinery oily water sewer.
- MPC LPSW - Stormwater discharged from the Light Products Truck/Rail Loading Facility to the Tesoro Anacortes Refinery stormwater sewer.
- MPC MCST - Wastewater discharged from the Marine Crude Storage Terminal to the Tesoro Anacortes Refinery oily water sewer.
- MPC MCSW - Stormwater discharged from the Marine Crude Storage Terminal to the Tesoro Anacortes Refinery stormwater sewer.
- MPC RPSF - Wastewater discharged from the Refinery Product Storage Facility to the Tesoro Anacortes Refinery oily water sewer.

- MPS RPSW - Stormwater discharged from the Refinery Product Storage Facility to the Tesoro Anacortes Refinery stormwater sewer.
- MPC WF - Wastewater discharged from the Wharf Facility to the Tesoro Anacortes Refinery oily water sewer.

Table 2 – Crude Railcar Off-Loading Facility wastewater discharge to PWTS (MPC CRLF)

Latitude: 48.48341 Longitude: -122.572509

Parameter	Units	Minimum Sampling Frequency ^a	Sample Type ^b
Flow	gallons/day	Continuous	Metered/Recorded
Oil and grease	mg/L lbs/day	1/week	Grab and calculated
Biochemical oxygen demand (5-day) (BOD ₅)	mg/L	1/Permit Cycle ^d	Grab
Total suspended solids (TSS)	mg/L	1/Permit Cycle ^d	Grab
Priority pollutant (PP) – Total metals ^c	mg/L	1/Permit Cycle ^d	Grab

Table 3 – Light Products Truck/Rail Loading Facility commingled discharge to PWTS (MPC LPLF)

Latitude: 48.4912 Longitude: -122.574913

Parameter	Units	Minimum Sampling Frequency ^a	Sample Type ^b
Flow	gallons/day	Continuous	Metered/Recorded

Table 4 – Light Products Truck/Rail Loading Facility wastewater discharge to PWTS (MPC LPLF)

Latitude: 48.4912 Longitude: -122.574913

Parameter	Units	Minimum Sampling Frequency ^a	Sample Type ^b
Biochemical oxygen demand (5-day) (BOD ₅)	mg/L	1/Permit Cycle ^d	Grab
Total suspended solids (TSS)	mg/L	1/Permit Cycle ^d	Grab
Oil and grease	mg/L	1/Permit Cycle ^d	Grab

Parameter	Units	Minimum Sampling Frequency ^a	Sample Type ^b
Priority pollutant (PP) – Total metals ^c	mg/L	1/Permit Cycle ^d	Grab

Table 5 – Light Products Truck/Rail Loading Facility stormwater discharge to PWTS (MPC LPSW)

Latitude: 48.4912 Longitude: -122.574913

Parameter	Units	Minimum Sampling Frequency ^a	Sample Type ^b
Biochemical oxygen demand (5-day) (BOD ₅)	mg/L	1/Permit Cycle ^d	Grab
Total suspended solids (TSS)	mg/L	1/Permit Cycle ^d	Grab
Oil and grease	mg/L	1/Permit Cycle ^d	Grab
Priority pollutant (PP) – Total metals ^c	mg/L	1/Permit Cycle ^d	Grab

Table 6 – Marine Crude Storage Terminal wastewater discharge to PWTS (MPC MCST)

Latitude: 48.49954 Longitude: -122.560149

Latitude: 48.49783 Longitude: -122.560162

Parameter	Units	Minimum Sampling Frequency ^a	Sample Type ^b
Flow	gallons/day	1/Day – recorded but not reported Summary Only	Estimated
Biochemical oxygen demand (5-day) (BOD ₅)	mg/L	1/Permit Cycle ^d	Grab
Total suspended solids (TSS)	mg/L	1/Permit Cycle ^d	Grab
Oil and grease	mg/L	1/Permit Cycle ^d	Grab
Priority pollutant (PP) – Total metals ^c	mg/L	1/Permit Cycle ^d	Grab

Table 7 – Marine Crude Storage Terminal stormwater discharge to PWTS (MPC MCSW)

Latitude: 48.49783 Longitude: -122.560162

Parameter	Units	Minimum Sampling Frequency ^a	Sample Type ^b
Flow	gallons/day	Daily	Estimated
Biochemical oxygen demand (5-day) (BOD ₅)	mg/L	1/Permit Cycle ^d	Grab
Total suspended solids (TSS)	mg/L	1/Permit Cycle ^d	Grab
Oil and grease	mg/L	1/Permit Cycle ^d	Grab
Priority pollutant (PP) – Total metals ^c	mg/L	1/Permit Cycle ^d	Grab

Table 8 – Refinery Products Storage Facility wastewater discharge to PWTS (MPC RPSF)

Latitude: 48.49417 Longitude: -122.563167

Parameter	Units	Minimum Sampling Frequency ^a	Sample Type ^b
Flow	gallons/day	1/Day – recorded but not reported Summary Only	Estimated
Biochemical oxygen demand (5-day) (BOD ₅)	mg/L	1/Permit Cycle ^d	Grab
Total suspended solids (TSS)	mg/L	1/Permit Cycle ^d	Grab
Oil and grease	mg/L	1/Permit Cycle ^d	Grab
Priority pollutant (PP) – Total metals ^c	mg/L	1/Permit Cycle ^d	Grab

Table 9 – Refinery Products Storage Facility stormwater discharge to PWTS (MPC RPSW)

Latitude: 48.49181 Longitude: -122.566046

Latitude: 48.49175 Longitude: -122.563463

Parameter	Units	Minimum Sampling Frequency ^a	Sample Type ^b
Flow	gallons/day	Daily	Estimated

Parameter	Units	Minimum Sampling Frequency ^a	Sample Type ^b
Biochemical oxygen demand (5-day) (BOD ₅)	mg/L	1/Permit Cycle ^d	Grab
Total suspended solids (TSS)	mg/L	1/Permit Cycle ^d	Grab
Oil and grease	mg/L	1/Permit Cycle ^d	Grab
Priority pollutant (PP) – Total metals ^c	mg/L	1/Permit Cycle ^d	Grab

Table 10 – Wharf Facility wastewater discharge to PWTS (MPC WF)

Latitude: 48.49739 Longitude: -122.562744

Parameter	Units	Minimum Sampling Frequency ^a	Sample Type ^b
Flow	gallons/day	Daily	Estimated
Biochemical oxygen demand (5-day) (BOD ₅)	mg/L	1/Permit Cycle ^d	Grab
Total suspended solids (TSS)	mg/L	1/Permit Cycle ^d	Grab
Oil and grease	mg/L	1/Permit Cycle ^d	Grab
Priority pollutant (PP) – Total metals ^c	mg/L	1/Permit Cycle ^d	Grab

Footnotes:

^a Sampling frequencies are defined as follows:

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. Report daily flow in gallons per day.

Daily means once per day.

1/week means once per week (weekly) while actively discharging.

1/Day – recorded but not reported means that flow is recorded daily but not reported on the discharge monitoring report.

Summary Only means report the total monthly flow in the summary of the discharge monitoring report.

^b Sample types are defined as follows:

Grab means an individual sample collected over a fifteen (15) minute, or less, period.

DRAFT

Calculated means figured concurrently with the respective sample, using the following formula:

$$\text{Concentration (in mg/L)} \times \text{Flow (in MGD)} \times \text{Conversion Factor (8.34)} = \text{lbs/day.}$$

Estimated means:

Estimate based on the amount of rainfall for stormwater, or

Estimate based on the tank levels for dewatering wastewater

^c Priority Pollutant Scans for Total Metals must use total recoverable metal laboratory methods for all parameters except for hexavalent chromium. The 40 Code of Federal Regulations (CFR) 136 method for hexavalent chromium measures only its dissolved form.

^d Samples are to be taken in 2027 and reported on a single sample discharge monitoring report due January 15, 2028.

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, including representative sampling of any unusual discharge or discharge condition, including bypasses, upsets, and maintenance-related conditions affecting effluent quality.

Sampling and analytical methods used to meet the monitoring requirements specified in this permit must conform to the *Guidelines Establishing Test Procedures for the Analysis of Pollutants* contained in 40 CFR Part 136 or *Standard Methods for the Examination of Water and Wastewater* (APHA) unless otherwise specified in this permit or approved in writing by Ecology.

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 waste stream.
3. Establish a calibration frequency for each device or instrument in the O&M manual that conforms to the frequency recommended by the manufacturer.
4. 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 Washington Administrative Code (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.

S2.E. Request for reduction in monitoring

The Permittee may request a reduction of the sampling frequency after twelve (12) months of monitoring. Ecology will review each request and at its discretion grant the request when it reissues the permit or by a permit modification.

The Permittee must:

1. Provide a written request.
2. Clearly state the parameters for which it is requesting reduced monitoring.
3. Clearly state the justification for the reduction.

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](https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Water-quality-permits-guidance/WQWebPortal-guidance)¹. Include data for each of the parameters tabulated in Special Conditions 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. Submit DMRs no later than the dates specified below, unless otherwise specified in this permit.
3. 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 15th day of the following month.
 - b. Submit the **single sample** DMR on January 15, 2028, as specified in S2.

¹ <https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Water-quality-permits-guidance/WQWebPortal-guidance>

4. Enter the “No Discharge” reporting code for an entire DMR, for a specific monitoring point, or a specific parameter as appropriate, if the Permittee did not discharge wastewater or a specific pollutant during a given monitoring period.
5. Report single analytical values below detection as “less than the Detection Level (DL)” by entering the < 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.
6. Report single analytical values between the DL and the QL by entering the estimated value, the code for estimated value/below quantitation limit (J) and any additional information in the comments.
7. Submit a copy of the laboratory report as an attachment using WQWebDMR. Laboratory reports must include the chain of custody and QA/QC results.
8. 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.
9. 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 (1/2) 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 reporting period.
10. Report single-sample grouped parameters (for example: priority pollutants) on the WQWebDMR form and include: sample date, concentration detection, DL (as necessary), and laboratory QL (as necessary).

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 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

Industrial Section
PO Box 47600
Olympia, WA 98504-7600

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 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 date and time the analysis was performed.
4. The individual who performed the analysis.
5. The analytical technique or method 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 30 days of sampling.

a. Immediate reporting

The Permittee must **immediately** report to Ecology, to the contacts listed below, any noncompliance that may endanger health or the environment.

Northwest Regional Office 206-594-0000
Industrial Section Permit Manager

b. Twenty-four (24) hour reporting

The Permittee must report the following occurrences of noncompliance by telephone, to Ecology at the telephone number listed above, within 24

hours from the time the Permittee becomes aware of any of the following circumstances:

- (i) 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. This requirement does not include industrial process wastewater overflows to impermeable surfaces which are collected and routed to the treatment works.

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:

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

Submit the written report electronically using the Water Quality Permitting Portal – Permit Submittals application.

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 Special Condition 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

1. Spills of oil or hazardous materials

In addition to the requirements in S3.F, the Permittee must report a spill of oil or hazardous materials in accordance with the requirements of Revised Code of

Washington (RCW) 90.56.280 and WAC 173-303-145. Visit the website [How to Report a Spill²](#) for further instructions.

2. 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.

S3.I. Dangerous waste discharge notification

The Permittee must notify the PWTS and Ecology in writing of the intent to discharge into the PWTS any substance designated as a dangerous waste in accordance with the provisions of WAC 173-303-070. It must make this notification at least 90 days prior to the date that it proposes to initiate the discharge. The Permittee must not discharge this substance until authorized by Ecology and the PWTS. It must also comply with the notification requirements of Special Condition S8 and General Condition G4.

S3.J. Spill notification

The Permittee must notify the PWTS immediately (as soon as discovered) of all discharges that could cause problems to the PWTS, such as process spills and unauthorized discharges (including slug discharges).

S4. 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 includes 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.

S4.A. Operations and maintenance (O&M) manual

1. The Permittee must:
 - a. Prepare an Operations and Maintenance (O&M) Manual that meets the requirements of 173-240-150 WAC and submit it to Ecology for approval by **Insert Date (one year after permit effective date)**.
 - b. Review the O&M Manual annually.
 - c. Submit to Ecology for review any substantial changes or updates to the O&M Manual.

² <https://ecology.wa.gov/About-us/Get-involved/Report-an-environmental-issue/Report-a-spill>

- d. Keep the approved O&M Manual at the permitted facility.
 - e. Follow the instructions and procedures of this manual.
2. In addition to the requirements of WAC 173-240-150, the O&M Manual must include:
- a. Emergency procedures for cleanup in the event of wastewater system upset or failure, such as an sump overflow or pump failure.
 - b. System maintenance procedures that contribute to the generation of process wastewater.
 - c. Sampling procedures and reporting protocols to comply with the reporting requirements in the discharge permit.
 - d. 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).

S5. Prohibited discharges

The Permittee must comply with these general and specific prohibitions.

S5.A. General prohibitions

The Permittee must not introduce into the PWTs pollutant(s), which cause pass through or interference.

S5.B. Specific prohibitions

In addition, the Permittee must not introduce the following into the PWTs:

1. Pollutants which create a fire or explosion hazard in the PWTs, including, but not limited to, waste streams with a closed cup flashpoint of less than 60 degrees C (140 degrees F) using the test methods specified in 40 CFR 261.21.
2. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the PWTs resulting in interference.
3. Any pollutant (including oxygen-demanding pollutants (BOD₅, etc.)), released in a discharge at a flow rate or pollutant concentration that will cause interference with the PWTs.
4. Heat in amounts which will inhibit biological activity in the PWTs resulting in interference, but in no case heat in such quantities that the temperature at the PWTs treatment plant exceeds 40 degrees C (104 degrees F) unless the approval authority, upon request of the PWTs, approves alternative temperature limits.
5. Petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through.

6. Pollutants which result in the presence of toxic gases, vapors, or fumes within the PWTS in a quantity that may cause acute worker health and safety problems.
7. Any trucked or hauled pollutants, except at discharge points designated by the PWTS.
8. Pollutants that will cause corrosive structural damage to the PWTS.

S5.C. Prohibited unless approved

Any of the following discharges are prohibited unless approved by Ecology under extraordinary circumstances (such as a lack of direct discharge alternatives due to combined sewer service or a need to augment sewage flows due to septic conditions):

1. Noncontact cooling water in significant volumes.
2. Wastewaters significantly affecting system hydraulic loading, which do not require treatment or would not be afforded a significant degree of treatment by the system.
3. The discharge of dangerous wastes as defined in Chapter 173-303 WAC (Unless specifically authorized in this permit).

S6. Dilution prohibited

The Permittee must not dilute the wastewater discharge with stormwater or increase the use of potable water, process water, noncontact cooling water, or, in any way, attempt to dilute an effluent as a partial or complete substitute for adequate treatment to achieve compliance with the limits contained in this permit. This does not include waste streams that are commingled under normal operating conditions.

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. Application for permit renewal or modification for facility changes

The Permittee must submit an application for renewal of this permit by **Insert Date (one year prior to expiration date)**.

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.

S9. Non-routine and unanticipated wastewater

S9.A. Notification requirements

Beginning on the effective date of this permit, the Permittee is authorized to discharge non-routine wastewater or unanticipated wastewater, and therefore not listed on the permit application, to the wastewater treatment system on a case-by-case basis if approved by Ecology and the PWTS. Prior to any such discharge, the Permittee must contact Ecology, and at a minimum, provide the following information:

1. The proposed discharge location;
2. The nature of the activity that will generate the discharge;
3. Any alternatives to the discharge, such as reuse, storage, or recycling of the water;
4. The total volume of water it expects to discharge;
5. The results of the chemical analysis of the water;
6. The date of proposed discharge; and
7. The expected rate of discharge discharged, in gallons per minute.
8. The expected rate of discharge in gallons per minute for discharges greater than 20,000 gallons.

S9.B. Chemical analysis

The Permittee must analyze the water for the following constituents and report them as required by subpart A.5 above: biochemical oxygen demand, total suspended solids, oil and grease, and priority pollutant total metals. The analysis must also include any parameter deemed necessary by Ecology. All discharges must comply with the effluent limits as established in Special Condition S1 of this permit and any other limits imposed by Ecology.

S9.C. Approval requirements

The discharge cannot proceed until Ecology has reviewed the information provided and has authorized the discharge by letter to the Permittee or by an Administrative Order.

S10. Spill control plan

S10.A. Spill control plan submittals and requirements

The Permittee must:

1. Submit to Ecology an update to the existing spill control plan whenever the spill control plan is approved by Ecology's Spill Prevention, Preparedness, and Response Program.
2. Review the plan at least annually and update the spill plan as needed.

3. Send changes to the plan to Ecology.
4. Follow the plan and any supplements throughout the term of the permit.

S10.B. Spill control plan components

The spill control plan must include the following:

1. A list of all oil and petroleum products and other materials used and/or stored on-site, which when spilled, or otherwise released into the environment, designate as Dangerous Waste (DW) or Extremely Hazardous Waste (EHW) by the procedures set forth in WAC 173-303-070. Include other materials used and/or stored on-site which may become pollutants or cause pollution upon reaching state's waters.
2. A description of preventive measures and facilities (including an overall facility plot showing drainage patterns) which prevent, contain, or treat spills of these materials.
3. A description of the reporting system the Permittee will use to alert responsible managers and legal authorities in the event of a spill.
4. A description of operator training to implement the plan.

The Permittee may submit plans and manuals required by 40 CFR Part 112, contingency plans required by Chapter 173-303 WAC, or other plans required by other agencies, which meet the intent of this section.

REFERENCES

Ecology. (2023). *Criteria for Sewage Works Design, Publication 98-37 (Orange Book)*.
Retrieved from
<https://apps.ecology.wa.gov/publications/SummaryPages/9837.html>

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 entry

Representatives of Ecology have the right to enter at all reasonable times in or upon any property, public or private for the purpose of inspecting and investigating conditions relating to the pollution or the possible pollution of any waters of the state. Reasonable times include normal business hours; hours during which production, treatment, or discharge occurs; or times when Ecology suspects a violation requiring immediate inspection. Representatives of Ecology must be allowed to have access to, and copy at reasonable cost, any records required to be kept under terms and conditions of the permit; to inspect any monitoring equipment or method required in the permit; and to sample the discharge, waste treatment processes, or internal waste streams.

G3. Permit actions

This permit is subject to modification, suspension, or termination, in whole or in part by Ecology for any of the following causes:

1. Violation of any permit term or condition;
2. Obtaining a permit by misrepresentation or failure to disclose all relevant facts;
3. A material change in quantity or type of waste disposal;
4. A material change in the condition of the waters of the state; or
5. Nonpayment of fees assessed pursuant to RCW 90.48.465.

Ecology may also modify this permit, including the schedule of compliance or other conditions, if it determines good and valid cause exists, including promulgation or revisions of regulations or new information.

G4. Reporting a cause for modification

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 the discharge of more of any pollutant, a new pollutant, or more flow than specifically authorized under this permit.

The Permittee must submit a State Waste Discharge permit application, along with required plans and reports. Required plans and reports may include an Engineering Report, Plans and Specifications, and an Operations and Maintenance manual, (see Chapter 173-240 WAC). The Permittee must continue to comply with the existing permit until it is modified or reissued. 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

This permit is automatically transferred to a new owner or operator if:

1. A written agreement between the old and new owner or operator containing a specific date for transfer of permit responsibility, coverage, and liability is submitted to Ecology;
2. A copy of the permit is provided to the new owner and;
3. Ecology does not notify the Permittee of the need to modify the permit.

Unless this permit is automatically transferred according to conditions 1-3 above, this permit may be transferred only if it is modified to identify the new Permittee and to incorporate such other requirements as determined necessary by Ecology.

G8. Reduced production for compliance

The Permittee must control production or discharge to the extent necessary to maintain compliance with the terms and conditions of this permit upon reduction of efficiency,

loss, or failure of its treatment facility until the treatment capacity 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 for 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 effluent stream for discharge.

G10. Payment of fees

The Permittee must submit payment of fees associated with this permit as assessed by Ecology. Ecology may revoke this permit if the permit fees established under Chapter 173-224 WAC are not paid.

G11. 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 such violation is a separate and distinct offense, and in case of a continuing violation, each day's continuance is deemed to be a separate and distinct violation.

G12. 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.

G13. Duty to comply

The Permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of chapter 90.48 RCW and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

APPENDIX A – List of Pollutants, Analytical Methods, Detection Levels and Quantitation Levels

The Permittee must use the specified analytical methods, detection levels (DLs) ¹ and quantitation levels (QLs) ² 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 due to matrix effects, the Permittee must submit a matrix-specific detection level (MDL) and a quantitation level (QL) to Ecology with appropriate laboratory documentation when the detection levels are too high to provide results near or below criteria (or applicable permit limits).

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.

Appendix A Table 1 – Conventional pollutants

Pollutant	CAS number (if available)	Recommended analytical protocol	Detection level (DL) ¹ µg/L unless specified	Quantitation level (QL) ² µg/L unless specified
Biochemical Oxygen Demand		SM5210-B		2 mg/L
Biochemical Oxygen Demand, Soluble		SM5210-B ³		2 mg/L
Fecal Coliform		SM 9221E, 9221F SM 9222D	N/A	Specified in method sample aliquot dependent
Oil and Grease (HEM) (Hexane Extractable Material)		1664 A or B	1,400	5,000

Pollutant	CAS number (if available)	Recommended analytical protocol	Detection level (DL) ¹ µg/L unless specified	Quantitation level (QL) ² µg/L unless specified
pH		SM4500-H+ B	N/A	N/A
Total Suspended Solids		SM2540-D		5 mg/L

Appendix A Table 2 - Nonconventional pollutants

Pollutant	CAS number (if available)	Recommended analytical protocol	Detection level (DL) ¹ µg/L unless specified	Quantitation level (QL) ² µg/L unless specified
Alkalinity, Total		SM2320-B		5 mg/L as CaCO ₃
Aluminum, Total	7429-90-5	200.8	2.0	10
Ammonia, Total (as N)		SM4500-NH3-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	10	50
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
E.coli		SM 9221B, 9221F, 9223B	N/A	Specified in method; sample aliquot dependent
Enterococci		EPA 1600 SM 9230B, 9230C, 9230D	N/A	Specified in method; sample aliquot dependent
Flow		Calibrated device		

Pollutant	CAS number (if available)	Recommended analytical protocol	Detection level (DL) ¹ µg/L unless specified	Quantitation level (QL) ² µg/L unless specified
Fluoride	16984-48-8	SM4500-F E	25	100
Hardness, Total		SM2340B		200 as CaCO ₃
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 ₃ - E/F/H		100
Nitrogen, Total Kjeldahl (as N)		SM4500-N _{org} B/C and SM4500NH ₃ - B/C/D/EF/G/H		300
NWTPH Dx ⁴		Ecology NWTPH Dx	250	250
NWTPH Gx ⁵		Ecology NWTPH Gx	250	250
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 ₄)		SM4110-B		0.2 mg/L
Sulfide (as mg/L S)		SM4500-S2F/D/G		0.2 mg/L
Sulfite (as mg/L SO ₃)		SM4500-SO3B		2 mg/L
Temperature		Analog recorder or micro-recording devices (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 SM 9222B	N/A	Specified in method; sample aliquot dependent

DRAFT

Pollutant	CAS number (if available)	Recommended analytical protocol	Detection level (DL) ¹ µg/L unless specified	Quantitation level (QL) ² µg/L unless specified
Total Organic Carbon		SM5310-B/C/D		1 mg/L
Total Dissolved solids		SM2540 C		20 mg/L

Appendix A Table 3 - Priority pollutants: Metals, chromium (hex), cyanide & total phenols

Priority pollutants	PP #	CAS number (if available)	Recommended analytical protocol	Detection level (DL) ¹ µg/L unless specified	Quantitation level (QL) ² µg/L unless specified
Antimony, Total	114	7440-36-0	200.8	0.3	1.0
Arsenic, Total	115	7440-38-2	200.8	0.1	0.5
Beryllium, Total	117	7440-41-7	200.8	0.1	0.5
Cadmium, Total	118	7440-43-9	200.8	0.05	0.25
Chromium (hex) dissolved	119	18540-29-9	SM3500-Cr C	0.3	1.2
Chromium, Total	119	7440-47-3	200.8	0.2	1.0
Copper, Total	120	7440-50-8	200.8	0.4	2.0
Lead, Total	122	7439-92-1	200.8	0.1	0.5
Mercury, Total	123	7439-97-6	1631E	0.0002	0.0005
Nickel, Total	124	7440-02-0	200.8	0.1	0.5
Selenium, Total	125	7782-49-2	200.8	1.0	1.0
Silver, Total	126	7440-22-4	200.8	0.04	0.2
Thallium, Total	127	7440-28-0	200.8	0.09	0.36
Zinc, Total	128	7440-66-6	200.8	0.5	2.5
Cyanide, Total	121	57-12-5	335.4	5	10
Cyanide, Weak Acid Dissociable	121		SM4500-CN I	5	10
Cyanide, Free Amenable to Chlorination (Available Cyanide)	121		SM4500-CN G	5	10
Phenols, Total	65		EPA 420.1		50

Appendix A Table 4 - Priority pollutants: Acid compounds

Priority pollutants	PP #	CAS number (if available)	Recommended analytical protocol	Detection level (DL) ¹ µg/L unless specified	Quantitation level (QL) ² µg/L unless specified
2-Chlorophenol	24	95-57-8	625.1	3.3	9.9
2,4-Dichlorophenol	31	120-83-2	625.1	2.7	8.1
2,4-Dimethylphenol	34	105-67-9	625.1	2.7	8.1
4,6-dinitro-o-cresol (2-methyl-4,6,- dinitrophenol)	60	534-52-1	625.1/1625B	24	72
2,4 dinitrophenol	59	51-28-5	625.1	42	126
2-Nitrophenol	57	88-75-5	625.1	3.6	10.8
4-Nitrophenol	58	100-02-7	625.1	2.4	7.2
Parachlorometa cresol (4-chloro-3- methylphenol)	22	59-50-7	625.1	3.0	9.0
Pentachlorophenol	64	87-86-5	625.1	3.6	10.8
Phenol	65	108-95-2	625.1	1.5	4.5
2,4,6-Trichlorophenol	21	88-06-2	625.1	2.7	8.1

Appendix A Table 5 - Priority pollutants: Volatile compounds

Priority pollutants	PP #	CAS number (if available)	Recommended analytical protocol	Detection level (DL) ¹ µg/L unless specified	Quantitation level (QL) ² µg/L unless specified
Acrolein	2	107-02-8	624.1	5	10
Acrylonitrile	3	107-13-1	624.1	1.0	2.0
Benzene	4	71-43-2	624.1	4.4	13.2
Bromoform	47	75-25-2	624.1	4.7	14.1
Carbon tetrachloride	6	56-23-5	624.1/601 or SM6230B	2.8	8.4
Chlorobenzene	7	108-90-7	624.1	6.0	18.0
Chloroethane	16	75-00-3	624/601	1.0	2.0
2-Chloroethylvinyl Ether	19	110-75-8	624.1	1.0	2.0
Chloroform	23	67-66-3	624.1 or SM6210B	1.6	4.8

Priority pollutants	PP #	CAS number (if available)	Recommended analytical protocol	Detection level (DL) ¹ µg/L unless specified	Quantitation level (QL) ² µg/L unless specified
Dibromochloromethane (chlordibromomethane)	51	124-48-1	624.1	3.1	9.3
1,2-Dichlorobenzene	25	95-50-1	624.1	1.9	7.6
1,3-Dichlorobenzene	26	541-73-1	624.1	1.9	7.6
1,4-Dichlorobenzene	27	106-46-7	624.1	4.4	17.6
Dichlorobromomethane	48	75-27-4	624.1	2.2	6.6
1,1-Dichloroethane	13	75-34-3	624.1	4.7	14.1
1,2-Dichloroethane	10	107-06-2	624.1	2.8	8.4
1,1-Dichloroethylene	29	75-35-4	624.1	2.8	8.4
1,2-Dichloropropane	32	78-87-5	624.1	6.0	18.0
1,3-dichloropropene (mixed isomers) (1,2-dichloropropylene)6	33	542-75-6	624.1	5.0	15.0
Ethylbenzene	38	100-41-4	624.1	7.2	21.6
Methyl bromide (Bromomethane)	46	74-83-9	624/601	5.0	10.0
Methyl chloride (Chloromethane)	45	74-87-3	624.1	1.0	2.0
Methylene chloride	44	75-09-2	624.1	2.8	8.4
1,1,2,2-Tetrachloroethane	15	79-34-5	624.1	6.9	20.7
Tetrachloroethylene	85	127-18-4	624.1	4.1	12.3
Toluene	86	108-88-3	624.1	6.0	18.0
1,2-Trans-Dichloroethylene (Ethylene dichloride)	30	156-60-5	624.1	1.6	4.8
1,1,1-Trichloroethane	11	71-55-6	624.1	3.8	11.4
1,1,2-Trichloroethane	14	79-00-5	624.1	5.0	15.0
Trichloroethylene	87	79-01-6	624.1	1.9	5.7
Vinyl chloride	88	75-01-4	624/SM6200B	1.0	2.0

Appendix A Table 6 - Priority pollutants: Base/neutral compounds

Priority pollutants	PP #	CAS number (if available)	Recommended analytical Protocol	Detection level (DL) ¹ µg/L unless specified	Quantitation level (QL) ² µg/L unless specified
Acenaphthene	1	83-32-9	625.1	1.9	5.7
Acenaphthylene	77	208-96-8	625.1	3.5	10.5
Anthracene	78	120-12-7	625.1	1.9	5.7
Benzidine	5	92-87-5	625.1	44	132
Benzyl butyl phthalate	67	85-68-7	625.1	2.5	7.5
Benzo(a)anthracene	72	56-55-3	625.1	7.8	23.4
Benzo(b)fluoranthene (3,4- benzofluoranthene) ⁷	74	205-99-2	610/625.1	4.8	14.4
Benzo(k)fluoranthene (11,12- benzofluoranthene) ⁷	75	207-08-9	610/625.1	2.5	7.5
Benzo(a)pyrene	73	50-32-8	610/625.1	2.5	7.5
Benzo(ghi)Perylene	79	191-24-2	610/625.1	4.1	12.3
Bis(2-chloroethoxy)methane	43	111-91-1	625.1	5.3	15.9
Bis(2-chloroethyl)ether	18	111-44-4	611/625.1	5.7	17.1
Bis(2-chloro-1-methylethyl)Ether (Bis(2-chloroisopropyl)ether) ⁸	42	108-60-1	625.1	5.7	17.1
Bis(2-ethylhexyl)phthalate	66	117-81-7	625.1	2.5	7.5
4-Bromophenyl phenyl ether	41	101-55-3	625.1	1.9	5.7
2-Chloronaphthalene	20	91-58-7	625.1	1.9	5.7
4-Chlorophenyl phenyl ether	40	7005-72-3	625.1	4.2	12.6
Chrysene	76	218-01-9	610/625.1	2.5	7.5
Dibenzo(a-h)anthracene (1,2,5,6- dibenzanthracene)	82	53-70-3	625.1	2.5	7.5
3,3-Dichlorobenzidine	28	91-94-1	605/625.1	16.5	49.5
Diethyl phthalate	70	84-66-2	625.1	1.9	5.7
Dimethyl phthalate	71	131-11-3	625.1	1.6	4.8
Di-n-butyl phthalate	68	84-74-2	625.1	2.5	7.5
2,4-dinitrotoluene	35	121-14-2	609/625.1	5.7	17.1
2,6-dinitrotoluene	36	606-20-2	609/625.1	1.9	5.7

DRAFT

Priority pollutants	PP #	CAS number (if available)	Recommended analytical Protocol	Detection level (DL) ¹ µg/L unless specified	Quantitation level (QL) ² µg/L unless specified
Di-n-octyl phthalate	69	117-84-0	625.1	2.5	7.5
1,2-Diphenylhydrazine (as Azobenzene)	37	122-66-7	1625B/625.1	5.0	20
Fluoranthene	39	206-44-0	625.1	2.2	6.6
Fluorene	80	86-73-7	625.1	1.9	5.7
Hexachlorobenzene	9	118-74-1	612/625.1	1.9	5.7
Hexachlorobutadiene	52	87-68-3	625.1	0.9	2.7
Hexachlorocyclopentadiene	53	77-47-4	1625B/625.1	2.0	4.0
Hexachloroethane	12	67-72-1	625.1	1.6	4.8
Indeno(1,2,3-cd)Pyrene	83	193-39-5	610/625.1	3.7	11.1
Isophorone	54	78-59-1	625.1	2.2	6.6
Naphthalene	55	91-20-3	625.1	1.6	4.8
Nitrobenzene	56	98-95-3	625.1	1.9	5.7
N-Nitrosodimethylamine	61	62-75-9	607/625.1	2.0	4.0
N-Nitrosodi-n-propylamine	63	621-64-7	607/625.1	0.5	1.0
N-Nitrosodiphenylamine	62	86-30-6	625.1	1.0	2.0
Phenanthrene	81	85-01-8	625.1	5.4	16.2
Pyrene	84	129-00-0	625.1	1.9	5.7
1,2,4-Trichlorobenzene	8	120-82-1	625.1	1.9	5.7

Appendix A Table 7 - Dioxin

Priority pollutant	PP #	CAS number (if available)	Recommended analytical protocol	Detection level (DL) ¹ µg/L unless specified	Quantitation level (QL) ² µg/L unless specified
2,3,7,8-Tetra-Chlorodibenzo-P- Dioxin (2,3,7,8 TCDD)	129	1746-01-6	1613B	1.3 pg/L	5 pg/L

Appendix A Table 8 - Pesticides and PCBs

Priority pollutants	PP #	CAS number (if available)	Recommended analytical protocol	Detection level (DL) ¹ µg/L unless specified	Quantitation level (QL) ² µg/L unless specified
Aldrin	89	309-00-2	608.3	4.0 ng/L	12 ng/L
alpha-BHC	102	319-84-6	608.3	3.0 ng/L	9.0 ng/L
beta-BHC	103	319-85-7	608.3	6.0 ng/L	18 ng/L
gamma-BHC (Lindane)	104	58-89-9	608.3	4.0 ng/L	12 ng/L
delta-BHC	105	319-86-8	608.3	9.0 ng/L	27 ng/L
Chlordane ⁹	91	57-74-9	608.3	14 ng/L	42 ng/L
4,4'-DDT	92	50-29-3	608.3	12 ng/L	36 ng/L
4,4'-DDE	93	72-55-9	608.3	4.0 ng/L	12 ng/L
4,4' DDD	94	72-54-8	608.3	11ng/L	33 ng/L
Dieldrin	90	60-57-1	608.3	2.0 ng/L	6.0 ng/L
alpha-Endosulfan	95	959-98-8	608.3	14 ng/L	42 ng/L
beta-Endosulfan	96	33213-65-9	608.3	4.0 ng/L	12 ng/L
Endosulfan Sulfate	97	1031-07-8	608.3	66 ng/L	198 ng/L
Endrin	98	72-20-8	608.3	6.0 ng/L	18 ng/L
Endrin Aldehyde	99	7421-93-4	608.3	23 ng/L	70 ng/L
Heptachlor	100	76-44-8	608.3	3.0 ng/L	9.0 ng/L
Heptachlor Epoxide	101	1024-57-3	608.3	83 ng/L	249 ng/L
PCB-1242 ¹⁰	106	53469-21-9	608.3	0.065	0.195
PCB-1254	107	11097-69-1	608.3	0.065	0.195
PCB-1221	108	11104-28-2	608.3	0.065	0.195
PCB-1232	109	11141-16-5	608.3	0.065	0.195
PCB-1248	110	12672-29-6	608.3	0.065	0.195
PCB-1260	111	11096-82-5	608.3	0.065	0.195
PCB-1016 ¹⁰	112	12674-11-2	608.3	0.065	0.195
Toxaphene	113	8001-35-2	608.3	240 ng/L	720 ng/L

Footnotes

¹ Detection level (DL) – or method detection limit means the minimum concentration of an analyte (substance) that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results as determined by the procedure given in 40 CFR part 136, Appendix B.

² Quantitation Level (QL) – also known as Minimum Level (ML) – The term “minimum level” refers to either the sample concentration equivalent to the lowest calibration point in a method or a multiple of the method detection limit (DL), whichever is higher. Minimum levels may be obtained in several ways: They may be published in a method; they may be based on the lowest acceptable calibration point used by a laboratory; or they may be calculated by multiplying the DL in a method, or the DL determined by a laboratory, by a factor of 3. For the purposes of NPDES compliance monitoring, EPA considers the following terms to be synonymous: “quantitation limit,” “reporting limit,” and “minimum level”.

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.

⁴ Northwest Total Petroleum Hydrocarbons Diesel Extended Range OR NWTPH Dx – Analytical Methods for Petroleum Hydrocarbons
<https://apps.ecology.wa.gov/publications/documents/97602.pdf>

⁵ Northwest Total Petroleum Hydrocarbons Gasoline Extended Range OR NWTPH Gx – Analytical Methods for Petroleum Hydrocarbons
<https://apps.ecology.wa.gov/publications/documents/97602.pdf>

⁶ 1, 3-dichloropropylene (mixed isomers) – You may report this parameter as two separate parameters: cis-1, 3-dichloropropene (10061-01-5) and trans-1, 3-dichloropropene (10061-02-6).

⁷ Total Benzofluoranthenes – Because Benzo(b)fluoranthene, Benzo(j)fluoranthene and Benzo(k)fluoranthene co-elute you may report these three isomers as total benzofluoranthenes.

⁸ Bis(2-Chloro-1-Methylethyl) Ether – This compound was previously listed as Bis(2-Chloroisopropyl) Ether (39638-32-9)

⁹ Chlordane – You may report alpha-chlordane (5103-71-9) and gamma-chlordane (5103-74-2) in place of chlordane (57-74-9). If you report alpha and gamma-chlordane, the DL/PQLs that apply are 14/42 ng/L.

¹⁰ PCB 1016 & PCB 1242 – You may report these two PCB compounds as one parameter called PCB 1016/1242.