Port of Vancouver USA

3103 Lower River Road
Vancouver, Washington 98660

Stormwater Management Program Plan

NPDES Phase II Municipal Permit

SECONDARY PERMITTEE WAR045201

January 2025

Prepared by
Kennedy Jenks
1500 NE Irving Street, Suite 200
Portland, Oregon 97232
KJ Project No. 2165013*02

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Introduction

The Port of Vancouver (port) is an operator of a regulated small municipal separate storm sewer system (MS4) and identified as a secondary permittee in the Western Washington Phase II Municipal Stormwater Permit (Permit) Section S1.D.1.d. and Section S1.D.2.a.ii.

Section S6.A.2. of the Permit requires that the port develop and implement a Stormwater Management Program (SWMP) Plan. This SWMP Plan is organized to follow the structure of the Permit. Not all sections of the permit apply to the port and only applicable permit sections are addressed in this SWMP.

As required by Permit Section S6.A.5., the port will update this SWMP Plan annually to include a description of program activities for the upcoming calendar year. The SWMP Plan will be submitted with the Annual Report to the State of Washington Department of Ecology (Ecology).

Permit Section S2. Authorized Discharges

PERMIT SECTION S2.A. STORMWATER DISCHARGES

The Permit authorizes the discharge of stormwater to surface waters and to groundwaters of the State from the port's MS4. These discharges are subject to the following limitations:

1. Discharges to groundwaters of the State through facilities regulated under the Underground Injection Control (UIC) program, Chapter 173-218 WAC, are not authorized under the Permit.
2. Discharges to groundwaters not subject to regulation under the federal Clean Water Act are authorized in the Permit only under state authorities, Chapter 90.48 RCW, the Water Pollution Control Act.

PERMIT SECTION S2.B. NON-STORMWATER DISCHARGES

The Permit authorizes discharges of non-stormwater flows to surface waters and to groundwaters of the State from the port's MS4 only under one or more of the following conditions:

1. The discharge is authorized by a separate National Pollutant Discharge Elimination System (NPDES) or State Waste Discharge permit.
2. The discharge is from another illicit or non-stormwater discharge that is managed by the port as provided in S6.D.3.

Permit Section S4. Compliance with Standards

PERMIT SECTION S4C. MEP STANDARD

The port's stormwater management program is designed to reduce the discharge of pollutants from the port's MS4 to the maximum extent practicable (MEP).

PERMIT SECTION S4.D. AKART STANDARD

The port uses All Known, Available, and Reasonable methods of prevention, control, and Treatment (AKART) to prevent and control pollution of waters of the State of Washington.

PERMIT SECTION S4.F. VIOLATIONS OF WATER QUALITY STANDARDS AND ADAPTIVE MANAGEMENT

The port will notify the Ecology in writing within 30 days of becoming aware, based on credible site-specific information, that a discharge from the port's MS4 is causing or contributing to a known or likely violation of Water Quality Standards in the receiving water. This written notification provided will identify the source of the site-specific information, describe the nature and extent of the known or likely violation in the receiving water, and explain the reasons why the MS4 discharge is believed to be causing or contributing to the problem. For ongoing or continuing violations, a single written notification to Ecology will fulfill this requirement. Further steps will be taken in response to Ecology determinations as detailed in the Permit Sections S4.F.2 and S4.F.3.

Permit Section S6. Stormwater Management Program for Secondary Permittees

PERMIT SECTION S6.A.5. ANNUAL SWMP UPDATES

The port will update this SWMP Plan annually to include a description of program activities for the upcoming calendar year. The SWMP Plan will be submitted with the Annual Report to Ecology.

PERMIT SECTION S6.B. COORDINATION

The port shall coordinate stormwater-related policies, programs, and projects within the Salmon - Washougal watershed and with interconnected MS4s as relevant and appropriate. Interconnected MS4s include the City of Vancouver where treated groundwater from a port-owned treatment system discharges into a City-owned section of the 36-inch stormwater line that conveys stormwater to the T2O outfall at the Columbia River. The port-owned treatment system was shut off in August of 2024 and is planned to remain so for five years. The City of Vancouver conducts monthly inspections of the port's stormwater facilities and provides a written report to the port with 21 days of each inspection.

PERMIT SECTION S6.C. LEGAL AUTHORITY

The port operates pursuant to legal authority which authorizes or enables the port to control discharges to and from their MS4.

PERMIT SECTION S6.D.1. PUBLIC EDUCATION AND OUTREACH

Permit Subsection S6.D.1.a. Storm Drain Inlet Marking

The port purchased custom drain markers which were imprinted with the message "Dump No Waste, Drains to Columbia River" (Figure 1). These markers were installed in 2008 on all storm drains on port property that were located in maintenance yards, parking lots, along sidewalks and at pedestrian access points as required.

Drain markers are inspected annually to ensure drain markers are still in-place and visible. Any markers no longer clearly visible and/or readable are replaced within 90 days of discovery.

Figure 1

Permit Subsection S6.D.1.b. Educational Information

The port distributes educational information annually to its tenants and shipping agents through newsletters which are distributed through direct and electronic mailings. Topics may include:

- How stormwater runoff affects local water bodies;
- Proper use and application of pesticides and fertilizers;
- Alternative equipment washing practices, including cars and trucks that minimize pollutants in stormwater;
- Benefits of proper vehicle maintenance and alternative transportation choices;
- Proper handling and disposal of vehicle wastes, including the location of hazardous waste collection facilities in the area;
- Hazards associated with illicit connections and illicit discharges; and
- Source control best management practices (BMPs) for building materials to reduce pollution to stormwater, including but not limited to, stormwater pollution from PCB-containing materials.

PERMIT SECTION S6.D.2 PUBLIC INVOLVEMENT AND PARTICIPATION

The most recent Annual Report and SWMP Plan are available on the port's website: http://www.portvanusa.com/environmental-services/water-quality/

PERMIT SECTION S6.D.3 ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)

Permit Subsection S6.D.3.a. Compliance with Ordinances, Rules and Regulations

It is port policy to comply with all relevant ordinances, rules and regulations of the local jurisdictions in which the port is located (City of Vancouver, Clark County and the State of Washington) that govern non-stormwater discharges.

Permit Subsection S6.D.3.b. Implementing and Enforcing IDDE Policies

The port implements policies prohibiting illicit discharges and an enforcement plan to encourage compliance with illicit discharge policies. These policies address illicit connections and non-stormwater discharges, including spills of hazardous materials, and improper disposal of litter.

i. The following are categories of allowable non-stormwater discharge that may occur at the port:
   (d) Uncontaminated pumped groundwater;
   (l) Discharges from emergency firefighting activities in accordance with S2 – Authorized Discharges.
   (m) Non-stormwater discharges authorized by another NPDES or State Waste Discharge permit.

ii. The following are categories of non-stormwater discharges that may occur at the port and are allowable only if the stated conditions are met, as modified by City of Vancouver municipal code (14.26.117.E):
   a) Discharges from potable water sources, including but not limited to water line flushing, hyperchlorinated water line flushing, fire hydrant system flushing, and pipeline hydrostatic test water. Planned discharges are dechlorinated to a total residual chlorine concentration of 0.1 ppm or less, pH-adjusted if necessary, and volumetrically and velocity controlled to prevent resuspension of sediments in the MS4;
   b) Discharges from landscape watering and other irrigation runoff. These discharges are minimized through, at a minimum, public education activities and water conservation efforts conducted by the port and/or the local jurisdiction;
   d) Street and sidewalk wash water, water used to control dust that does not use detergents. The port reduces these discharges through, at a minimum, public education activities and/or water conservation efforts conducted by the port and/or the local jurisdiction. To avoid washing pollutants into the MS4, the port minimizes the amount of street wash and dust control water used.
   e) Routine external building washdown that does not use detergents for buildings built before 1950 and after 1980. The Permittee shall reduce these

discharges through, at minimum, public education activities or water conservation efforts, or both.

f) Commercial, public, institutional, and industrial structures constructed or remodeled between the years 1950 and 1980 (i.e., those most likely to have PCB containing building materials), shall be assessed for PCB-containing materials consistent with How to Find PCBs in Building Materials guidance (Ecology, 2022; Publication No. 22-040-024) prior to routine building washdown. Structures confirmed or suspected to have PCB-containing materials shall not discharge washdown water to the MS4. Structures built between 1950-1980, without PCB-containing materials, may proceed with routine building washdown (without detergents) as described above.

g) Other non-stormwater discharges shall be in compliance with the requirements of a pollution prevention plan reviewed by the port which addresses control of such discharges.

Permit Subsection S6.D.3.c. Storm Sewer System Map

The port has developed and maintains a storm sewer system map showing the locations of known storm drain outfalls and discharge points, labeled receiving waters (other than groundwater) and delineated areas contributing runoff to each outfall and discharge point. The map is available on request to Ecology and, to the extent appropriate to other Permittees.

No later than 31 December 2026, this mapping will be in an electronic format with fully described mapping standards. No later than 31 March 2027, the port will submit locations of all known MS4 outfalls according to the standard templates and format provided in the Annual Report. This reporting shall include the size and material of the outfalls.

Permit Subsection S6.D.3.d. IDDE Inspections

The port conducts field inspections and visual inspections for illicit discharges at all known port outfalls and discharge points. At least 1/3 (on average) of all known outfalls and discharge points are inspected each year, and procedures to identify and remove any illicit discharges are implemented. Records of the inspections and follow-up activities are kept on file at the port office.

The port submits the required information from Permit Appendix 13 (IDDE Reporting Data and Format, provided as Appendix A of this SWMP Plan) with the online Annual Report form.

Permit Subsection S6.D.3.e. Spill Response Plan

The port implements a spill response plan that includes coordination with a qualified spill responder. Qualified spill responders include port maintenance crews, Stevedores and Longshoremen, tenants, BNSF, and outside vendors.

Permit Subsection S6.D.3.f. Training

The Port provides training to educate staff on proper BMPs for preventing illicit discharges, including spills. Training is provided to staff who, as part of their normal job responsibilities, have a role in preventing such illicit discharges.

PERMIT SECTION S6.D.4. CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

Permit Subsection S6.D.4.a. Compliance with Ordinance, Rules and Regulations

The port complies with all relevant ordinances, rules, and regulations of the local jurisdiction(s) in which the port is located (City of Vancouver, Clark County and the State of Washington) that govern construction phase stormwater pollution prevention measures.

Permit Subsection S6.D.4.b. Coverage Under NPDES Permit

For construction projects under the functional control of the port which require a construction stormwater permit, the port or its contractor obtains coverage under the NPDES Construction General Permit or an individual NPDES permit prior to discharging construction related stormwater.

Permit Subsection S6.D.4.c. Coordination with Local Jurisdictions

The port coordinates with the City of Vancouver and other local jurisdictions (Clark County and the State of Washington) regarding projects owned and operated by other entities which discharge into the port's MS4, to assist the local jurisdictions with achieving compliance with relevant ordinances, rules, and regulations of the local jurisdictions.

Permit Subsection S6.D.4.d. Training

The port provides training to educate relevant staff in erosion and sediment control BMPs and requirements (or hires trained contractors to perform the training work).

Permit Subsection S6.D.4.e. Access to Construction Sites

The port provides access to Ecology, or the local jurisdiction, as requested for inspection of construction sites or other land disturbances, which are under the functional control of the port during land disturbing activities and/or construction period.

PERMIT SECTION S6.D.5. POST-CONSTRUCTION STORMWATER MANAGEMENT FOR NEW DEVELOPMENT AND REDEVELOPMENT

Permit Subsection S6.D.5.a. Compliance with Ordinances, Rules and Regulations

The port, its tenants and contractors comply with relevant ordinances, rules, and regulations of the local jurisdictions in which the port is located (City of Vancouver and Clark County) that govern post-construction stormwater pollution prevention measures as appropriate through the local municipality's applicable project permitting processes.

Permit Subsection S6.D.5.b. Coordination with Local Jurisdictions

As an active member of the Stormwater Partners of Southwest Washington Working Group, the port coordinates with local jurisdictions (City of Vancouver, Clark County and Washington State University) regarding projects owned or operated by other entities which discharge into the port's MS4.

PERMIT SECTION S6.D.6. POLLUTION PREVENTION AND GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

Permit Subsection S6.D.6.a. Municipal O&M Plan

The port implements a municipal operation and maintenance (O&M) plan to minimize stormwater pollution from activities conducted by the port. The port's O&M Plan will be updated, as needed, no later than 1 July 2027.

The O&M Plan includes pollution prevention and good housekeeping procedures for all of the following operations, activities, and types of facilities that are present within the port's boundaries and under the functional control of the port that are included in S6.D.6.a. requirements.

Permit Subsection S6.D.6.b. Coverage Under Industrial Stormwater General Permit

Certain portions of the port are covered under the Industrial Stormwater General Permit #WAR000424 based on the port's NAICS code 488230 for Marine Cargo Handling.

Permit Subsection S6.D.6.c. Documentation and Records

The O&M Plan includes sufficient documentation and records to demonstrate compliance with the O&M Plan requirements in Permit Subsections S6.D.6.a.(i) through (vii), above.

Permit Subsection S6.D.6.d. Training

Port employees whose primary construction, operations, or maintenance job functions may impact stormwater quality receive pollution prevention training. The training includes, at a minimum, the following topics:

i. The importance of protecting water quality,
ii. The requirements of this permit,
iii. Operation and maintenance requirements,
iv. Inspection procedures,
v. Ways to perform their job activities to prevent or minimize impacts to water quality, and
vi. Procedures for reporting water quality concerns, including potential illicit discharges (including spills).

Permit Section S7. Compliance with Total Maximum Daily Loads

No applicable Total Maximum Daily Loads (TMDL) has been approved for stormwater discharges from MS4s owned or operated by the port. Therefore, there are no specific port requirements from this permit section.

Permit Section S9. Reporting & Recordkeeping Requirements

Permit Section S9.A. Annual Report Submittal

No later than 31 March of each year beginning in 2025, the port will submit an Annual Report. The reporting period for the first Annual Report will be from 1 January 2024 through 31 December 2024. The reporting period for all subsequent Annual Reports will be the previous calendar year unless otherwise specified. The port will submit Annual Reports electronically using Ecology's Water Quality Permitting portal (WQWebportal) available on Ecology's website.

Permit Section S9.B. Records Retention

The port keeps records related to the Permit and the SWMP Plan for at least five years after the expiration date of the Permit.

Permit Section S9.C. Records Available to the Public

The port makes records related to the Permit and the port's SWMP Plan available to the public at reasonable times during business hours. The port will provide a copy of the most recent annual report to any individual or entity, upon request. A reasonable charge may be assessed by the port for making photocopies of records. The port may require reasonable advance notice of intent to review records related to the Permit.

PERMIT SECTION S9.E. ANNUAL REPORT FOR SECONDARY PERMITTEES

Each Annual Report will shall include the following:

1. A copy of the port's current Stormwater Management Program Plan (SWMP Plan).
2. Submittal of the Annual Report form as provided by Ecology, describing the status of implementation of the requirements of this Permit during the reporting period.
3. Attachments to the Annual Report form including summaries, descriptions, reports, and other information as required, or as applicable, to meet the requirements of this Permit during the reporting period. Appendix 4 of the Permit (Annual Report Questions for Secondary Permittees) is provided as Appendix B of this SWMP Plan.
4. If applicable, notice that the port is relying on another entity to satisfy any of the obligations under this Permit.
5. Notification of any changes to authorization. If an authorization is no longer accurate because a different individual or position has responsibility for the overall development and implementation of the stormwater management program, a new authorization shall be submitted to Ecology prior to or together with any reports, information, or applications to be signed by an authorized representative.
6. A notification of any jurisdictional boundary changes resulting in an increase or decrease in the port's geographic area of permit coverage during the reporting period.

The port will submit the required information from Permit Appendix 13 (IDDE Reporting Data and Format, provided as Appendix A of this SWMP Plan) with the online annual report form.

Permit General Conditions

PERMIT GENERAL CONDITION G3. NOTIFICATION OF DISCHARGE, INCLUDING SPILLS

If the port has knowledge of a discharge, including spills, into or from a MS4 which could constitute a threat to human health, welfare, or the environment, the port will:

A. Take appropriate action to correct or minimize the threat to human health, welfare and/or the environment;

B. Notify the Ecology regional office and other appropriate spill response authorities immediately but in no case later than within 24 hours of obtaining that knowledge;

C. Immediately report spills or other discharges which might cause bacterial contamination of marine waters, such as discharges resulting from broken sewer lines and failing onsite septic systems, to the Ecology regional office and to the Department of Health, Shellfish Program; and

D. Immediately report spills or discharges of oils or hazardous substances to the Ecology regional office and to the Washington Emergency Management Division at 1-800-258-5990.

PERMIT GENERAL CONDITION G4. BYPASS PROHIBITED

The port is aware that intentional bypass of stormwater from all or any portion of a stormwater treatment BMP whenever the design capacity of the treatment BMP is not exceeded, is prohibited unless the following conditions are met:

A. Bypass is: (1) unavoidable to prevent loss of life, personal injury, or severe property damage; or (2) necessary to perform construction or maintenance-related activities essential to meet the requirements of the Clean Water Act (CWA); and

B. There are no feasible alternatives to bypass, such as the use of auxiliary treatment facilities, retention of untreated stormwater, or maintenance during normal dry periods. "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.

PERMIT GENERAL CONDITION G10. REMOVED SUBSTANCES

With the exception of decant from street waste vehicles, the port does not allow collected screenings, grit, solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of stormwater to be resuspended or reintroduced to the MS4 or to waters of the State.

Decant from street waste vehicles resulting from cleaning stormwater facilities may be reintroduced only when other practical means are not available and only in accordance with the Street Waste Disposal guidelines in Appendix 6 of the Permit (included as Appendix C of this SWMP Plan). Decant waste is discharged to the City of Vancouver's sanitary sewer system in compliance with the Letter of Discharge permit # LOD 2013-01. Solids generated from maintenance of the MS4 may be reclaimed, recycled, or reused when allowed by local codes and ordinances. Solids generated from maintenance of the MS4 are disposed of at the Wasco County Landfill as non-hazardous waste under profile approval number WC-23-232. Soils that are identified as contaminated pursuant to Chapter 173-350 WAC are disposed at a qualified solid waste disposal facility.

PERMIT GENERAL CONDITION G18. DUTY TO REAPPLY

The port will apply for permit renewal at least 180 days prior to the specified expiration date of the Permit.

PERMIT GENERAL CONDITION G19. CERTIFICATION AND SIGNATURE

All formal submittals to Ecology will be signed and certified. All permit applications will be signed by either a principal executive officer or ranking elected official. All formal submittals required by the Permit will 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:

1. The authorization is made in writing by a person described, above, and submitted to Ecology; and

2. The authorization specifies either an individual or a position having responsibility for the overall development and implementation of the stormwater management program. A duly authorized representative may thus be either a named individual or any individual occupying a named position.

Certification and Signature. Any person signing a formal submittal under the Permit shall 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 willful violations."*

PERMIT GENERAL CONDITION G20. NON-COM

NONCOMPLIANCE NOTIFICATION

In the event the port is unable to comply with any of the terms and conditions of their Permit, the port will:

A. Notify Ecology of the failure to comply with the permit terms and conditions in writing within 30 days of becoming aware that the non-compliance has occurred. The written notification will include the following:

    1. A description of the non-compliance, including dates;
    2. Beginning and end dates of the non-compliance, and if the compliance has not been corrected, the anticipated date of correction; and
    3. Steps taken or planned to reduce, eliminate, or prevent reoccurrence of the non-compliance.

B. Take appropriate action to stop or correct the condition of non-compliance.

PERMIT GENERAL CONDITION G21. UPSETS

The port will meet the conditions of 40 CFR 122.41(n) regarding "Upsets" as required. The conditions are as follows:

A. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the port. 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.

B. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of paragraph (C) of this condition are met. Any determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, will not constitute final administrative action subject to judicial review.

C. Conditions necessary for demonstration of upset. If the port wishes to establish the affirmative defense of upset, the port shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:

    1. An upset occurred and that the port can identify the cause(s) of the upset;
    2. The permitted facility was at the time being properly operated;
    3. The port submitted notice of the upset as required in 40 CFR 122.41(l)(6)(ii)(B) (24-hour notice of noncompliance); and
    4. The port complied with any remedial measures required under 40 CFR 122.41(d) (Duty to Mitigate).

Appendix A

Permit Appendix 13 - IDDE Reporting Data and Format

APPENDIX 13 – IDDE Reporting Data and Format

Permittees are required to submit the following information with the online annual report form, pursuant to Special Condition S9.A.

This is the complete list of information that all Permittees are required to report for each IDDE incident found, reported to, or investigated by the Permittee. Each Permittee may use either their own system or the WQWebIDDE form for recording this data.

The form is *required* for reporting, unless you are using your own tracking system.

If using your own tracking system, this information must be provided in an electronic format that follows the data schema provided at the end of this document and is easily transferred to a database. For annual reports due on March 31, 2025, a .xml submittal that follows the schema is required.

A complete report will include a separate entry (even if left blank) for every line below and must use the precise verbiage and spelling below. For all incidents where the answer to #6 is no, #7-12 are not required. All dates are in MM/DD/YYYY format.

1. Jurisdiction name and permit number
2. Date incident discovered or reported to you
3. Date of beginning your response
4. Date of end of your response
5. How was the incident discovered or reported to you? *(select **all** that apply)*
    - Pollution hotline (phone, web, app)
    - Direct report to your staff
    - Staff referral
    - Other agency referral
    - ERTS referral
    - Business inspection
    - Construction inspection
    - MS4 inspection or screening
    - Other *(Explanation required)*

6. Discharge to MS4? *(select **one**)*

- Yes – notified Ecology
- Yes – notified DOH and Ecology
- Yes – did not notify
- Yes – allowable or conditionally allowable
- No – none found
- No – cleaned up before reached MS4
- No – discharge to Underground Injection Control (UIC) well
- Unknown
- Other *(Explanation required)*

7. Incident Location

- Address/Intersection
- City
- Zip *(optional)*

And/Or

- Latitude
- Longitude

8. Pollutants Identified *(select **all** that apply)*

- Unconfirmed, unspecified, or not identified
- Fuel and/or vehicle related fluids
- Food-related oil/grease
- Sediment/soil
- Solid waste/trash
- Sewage/septage/pet waste/human waste
- Other wastewater
- Paint
- Firefighting foam
- Soap or cleaning chemicals
- Other *(Explanation required)*

9. Source or Cause *(select **all** that apply)*

- Unconfirmed, unspecified, or not identified
- Vehicle-related business
- Food-related business
- Landscape-related business
- Mobile business
- Construction activity
- Other commercial/industrial activity
- Vehicle collision
- Other accident/spill
- Intentional dumping
- Illicit connection
- Other *(Explanation required)*

10. Source tracing approach(es) used *(select **all** that apply)*

- Not applicable
- Observation (color/sheen/turbidity/floatables/odor)
- Map analysis
- Dye, smoke, or pressure testing
- Field indicator measurements
- Analytical laboratory indicators
- Other *(Explanation required)*

11. Correction/elimination methods used *(select **all** that apply)*

- Clean-up
- Education/technical assistance
- Add or modify operational source control BMP
- Add or modify structural source control BMP
- Add or modify treatment BMP
- Enforcement
- Referred to other agency or department
- Other *(Explanation required)*

12. Field notes, explanations, and/or other comments

IDDE XML Schema Document (IDDE.xsd)

```
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">

  <xs:annotation>

    <xs:documentation>

        The documentation for each element will start with the question as stated in
the online form, and implementation details will follow.

      </xs:documentation>

  </xs:annotation>

  <xs:element name="IDDEEvents" type="IDDEEvents" />


  <xs:complexType name="IDDEEvents">

    <xs:annotation>

      <xs:documentation>

        A list of IDDEs.

      </xs:documentation>

      <xs:documentation>

        Ecology's IDDE processing can handle an empty list

      </xs:documentation>

    </xs:annotation>

    <xs:sequence>

      <xs:element maxOccurs="unbounded" name="IDDEEvent" type="IDDEEvent" />

    </xs:sequence>

  </xs:complexType>


  <xs:complexType name="IDDEEvent">

    <xs:annotation>

      <xs:documentation>

        One particular IDDE event

      </xs:documentation>

      <xs:documentation>
```

```
        Everything in the IDDE form is in this type.

      </xs:documentation>

    </xs:annotation>

    <xs:all>

      <xs:element maxOccurs="1" minOccurs="1" name="Jurisdiction">

        <xs:annotation>

          <xs:documentation>

            1. Jurisdiction name and permit number

          </xs:documentation>

          <xs:documentation>

            Report the full 9 character Permit Number (ex: WAR043000), Jurisdiction
name is redundant and displayed for the sake of the user on the web.

          </xs:documentation>

        </xs:annotation>

        <xs:simpleType>

          <xs:restriction base="xs:string">

            <xs:length value="9"/>

          </xs:restriction>

        </xs:simpleType>

      </xs:element>

      <xs:element maxOccurs="1" minOccurs="0" nillable="true" name="IncidentId">

        <xs:annotation>

          <xs:documentation>

            No Question: Incident ID

          </xs:documentation>

          <xs:documentation>

            This is a unique ID code for all IDDEs on your permit, but not globally
unique.  The usual sequence counting from 1 works very well.

            WQWebIDDE uses the time and username to create this value (ex:
190702174507842WQWebPortal) when an IDDE is started.

            If omitted, IDDE processing can't identify IDDEs to update and will
simply insert all IDDEs as fresh records for reporting.
```

```
          </xs:documentation>
        </xs:annotation>
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:maxLength value="30"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:element>
      <xs:element maxOccurs="1" minOccurs="0" nillable="true" name="DateReported"
type="SqlDate">
        <xs:annotation>
          <xs:documentation>
            2. Date incident discovered or reported to you
          </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element maxOccurs="1" minOccurs="0" nillable="true"
name="DateResponseBegin" type="SqlDate">
        <xs:annotation>
          <xs:documentation>
            3. Date of beginning your response
          </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element maxOccurs="1" minOccurs="0" nillable="true" name="DateResponseEnd"
type="SqlDate">
        <xs:annotation>
          <xs:documentation>
            4. Date of end of your response
          </xs:documentation>
        </xs:annotation>
```

```
      </xs:element>

      <xs:element maxOccurs="1" minOccurs="0" nillable="true" name="Discovereds"
type="Discovered">

        <xs:annotation>

          <xs:documentation>

            5. How was the incident discovered or reported to you?

          </xs:documentation>

          <xs:documentation>

            Select all that apply, explain if "Other"

          </xs:documentation>

        </xs:annotation>

      </xs:element>

      <xs:element maxOccurs="1" minOccurs="0" nillable="true" name="MS4Discharge"
type="Discharge">

        <xs:annotation>

          <xs:documentation>

            6. Discharge to MS4?

          </xs:documentation>

          <xs:documentation>

            Select one, explain if "Other"

          </xs:documentation>

        </xs:annotation>

      </xs:element>

      <xs:element maxOccurs="1" minOccurs="0" nillable="true" name="Location"
type="Location">

        <xs:annotation>

          <xs:documentation>

            7. Incident Location

          </xs:documentation>

          <xs:documentation>
```

```
            At least one form of location is required.  Entering both is allowed and
acceptable.  Enter a street address or nearest intersection in the Address element,
it is not going to be verified to be a mailing address.

          </xs:documentation>

        </xs:annotation>

      </xs:element>

      <xs:element maxOccurs="1" minOccurs="0" nillable="true" name="Pollutants"
type="Pollutant">

        <xs:annotation>

          <xs:documentation>

            8. Pollutants Identified

          </xs:documentation>

          <xs:documentation>

            Select all that apply, explain if "Other"

          </xs:documentation>

        </xs:annotation>

      </xs:element>

      <xs:element maxOccurs="1" minOccurs="0" nillable="true" name="Sources"
type="Source">

        <xs:annotation>

          <xs:documentation>

            9. Source or cause

          </xs:documentation>

          <xs:documentation>

            Select all that apply, explain if "Other"

          </xs:documentation>

        </xs:annotation>

      </xs:element>

      <xs:element maxOccurs="1" minOccurs="0" nillable="true" name="Traces"
type="Trace">

        <xs:annotation>

          <xs:documentation>
```

```
            10. Source tracing approach(es) used

          </xs:documentation>

          <xs:documentation>

            Select all that apply, explain if "Other"

          </xs:documentation>

        </xs:annotation>

      </xs:element>

      <xs:element maxOccurs="1" minOccurs="0" nillable="true" name="Corrections"
type="Correction">

        <xs:annotation>

          <xs:documentation>

            11. Correction/elimination methods used

          </xs:documentation>

          <xs:documentation>

            Select all that apply, explain if "Other"

          </xs:documentation>

        </xs:annotation>

      </xs:element>

      <xs:element maxOccurs="1" minOccurs="0" nillable="true" name="Notes"
type="xs:string">

        <xs:annotation>

          <xs:documentation>

            12. Field notes, explanations, and/or other comments

          </xs:documentation>

        </xs:annotation>

      </xs:element>

    </xs:all>

  </xs:complexType>


  <xs:simpleType name="SqlDate">

    <xs:annotation>
```

```
      <xs:documentation>
        xs:date limited to SQL Server's operating range
      </xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:date">
      <xs:minInclusive value="1753-01-01" />
      <xs:maxInclusive value="9999-12-31" />
    </xs:restriction>
  </xs:simpleType>

  <xs:complexType name="Discharge">
    <xs:annotation>
      <xs:documentation>
        Responses for Question 6, Discharge to MS4?
      </xs:documentation>
    </xs:annotation>
    <xs:choice>
      <xs:element name="YesNotifiedECY" type="YesNotifiedECYDischarge">
        <xs:annotation>
          <xs:documentation>
            Yes – notified Ecology
          </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="YesNotifiedDOH" type="YesNotifiedDOHDischarge">
        <xs:annotation>
          <xs:documentation>
            Yes – notified DOH and Ecology
          </xs:documentation>
        </xs:annotation>
```

```
</xs:element>
<xs:element name="YesNoNotice" type="YesNoNoticeDischarge">
  <xs:annotation>
    <xs:documentation>
      Yes – did not notify
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="YesAllowable" type="YesAllowableDischarge">
  <xs:annotation>
    <xs:documentation>
      Yes – allowable or conditionally allowable
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="NoNoneFound" type="NoNoneFoundDischarge">
  <xs:annotation>
    <xs:documentation>
      No – none found
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="NoCleanedUp" type="NoCleanedUpDischarge">
  <xs:annotation>
    <xs:documentation>
      No – cleaned up before reached MS4
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="NoToUIC" type="NoToUICDischarge">
```

```
      <xs:annotation>
        <xs:documentation>
          No – discharge to Underground Injection Control (UIC) well
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Unknown" type="UnknownDischarge">
      <xs:annotation>
        <xs:documentation>
          Unknown
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="Other" type="OtherDischarge">
      <xs:annotation>
        <xs:documentation>
          Other
        </xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:choice>
</xs:complexType>

<xs:complexType name="Discovered">
  <xs:sequence>
    <xs:element maxOccurs="unbounded" name="Discovered">
      <xs:complexType>
        <xs:sequence>
          <xs:element maxOccurs="1" minOccurs="0" name="Explain" type="xs:string">
            <xs:annotation>
```

```
            <xs:documentation>
              Explain
            </xs:documentation>
            <xs:documentation>
              Required if the chosen type's xs:appinfo is Explain
            </xs:documentation>
          </xs:annotation>
        </xs:element>
      </xs:sequence>
      <xs:attribute name="type" type="DiscoveredType"/>
    </xs:complexType>
  </xs:element>
 </xs:sequence>
</xs:complexType>

<xs:complexType name="Location">
 <xs:all>
  <xs:element maxOccurs="1" minOccurs="0" name="Address" type="AddressType" />
  <xs:element maxOccurs="1" minOccurs="0" name="LatLong" type="LatLongType" />
 </xs:all>
</xs:complexType>

<xs:complexType name="Pollutant">
 <xs:sequence>
  <xs:element maxOccurs="unbounded" name="Pollutant">
   <xs:complexType>
    <xs:sequence>
     <xs:element maxOccurs="1" minOccurs="0" name="Explain" type="xs:string">
      <xs:annotation>
       <xs:documentation>
```

```
                Explain
              </xs:documentation>
              <xs:documentation>
                Required if the chosen type's xs:appinfo is Explain
              </xs:documentation>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
        <xs:attribute name="type" type="PollutantType"/>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="Source">
  <xs:sequence>
    <xs:element maxOccurs="unbounded" name="Source">
      <xs:complexType>
        <xs:sequence>
          <xs:element maxOccurs="1" minOccurs="0" name="Explain" type="xs:string">
            <xs:annotation>
              <xs:documentation>
                Explain
              </xs:documentation>
              <xs:documentation>
                Required if the chosen type's xs:appinfo is Explain
              </xs:documentation>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
```

```
        <xs:attribute name="type" type="SourceType"/>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="Trace">
  <xs:sequence>
    <xs:element maxOccurs="unbounded" name="Trace">
      <xs:complexType>
        <xs:sequence>
          <xs:element maxOccurs="1" minOccurs="0" name="Explain" type="xs:string">
            <xs:annotation>
              <xs:documentation>
                Explain
              </xs:documentation>
              <xs:documentation>
                Required if the chosen type's xs:appinfo is Explain
              </xs:documentation>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
        <xs:attribute name="type" type="TraceType"/>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="Correction">
  <xs:sequence>
```

```
    <xs:element maxOccurs="unbounded" name="Correction">
      <xs:complexType>
        <xs:sequence>
          <xs:element maxOccurs="1" minOccurs="0" name="Explain" type="xs:string">
            <xs:annotation>
              <xs:documentation>
                Explain
              </xs:documentation>
              <xs:documentation>
                Required if the chosen type's xs:appinfo is Explain
              </xs:documentation>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
        <xs:attribute name="type" type="CorrectionType"/>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="YesNotifiedECYDischarge">
  <xs:annotation>
    <xs:documentation>
      Discharge reached MS4, Notified Ecology
    </xs:documentation>
  </xs:annotation>
</xs:complexType>

<xs:complexType name="YesNotifiedDOHDischarge">
  <xs:annotation>
```

```
    <xs:documentation>
      Discharge reached MS4, Notified Departments of Ecology and Health
    </xs:documentation>
  </xs:annotation>
</xs:complexType>

<xs:complexType name="YesNoNoticeDischarge">
  <xs:annotation>
    <xs:documentation>
      Discharge reached MS4, Did not notify Ecology
    </xs:documentation>
  </xs:annotation>
</xs:complexType>

<xs:complexType name="YesAllowableDischarge">
  <xs:annotation>
    <xs:documentation>
      Discharge reached MS4, but it was allowable
    </xs:documentation>
  </xs:annotation>
</xs:complexType>

<xs:complexType name="NoNoneFoundDischarge">
  <xs:annotation>
    <xs:documentation>
      No discharge found
    </xs:documentation>
  </xs:annotation>
</xs:complexType>
```

```
<xs:complexType name="NoCleanedUpDischarge">
  <xs:annotation>
    <xs:documentation>
      Discharge cleaned up and did not reach MS4
    </xs:documentation>
  </xs:annotation>
</xs:complexType>

<xs:complexType name="NoToUICDischarge">
  <xs:annotation>
    <xs:documentation>
      Discharge to Underground Injection Control (UIC) well
    </xs:documentation>
  </xs:annotation>
</xs:complexType>

<xs:complexType name="UnknownDischarge">
  <xs:annotation>
    <xs:documentation>
      Unknown if discharge reached MS4
    </xs:documentation>
  </xs:annotation>
</xs:complexType>

<xs:complexType name="OtherDischarge">
  <xs:annotation>
    <xs:documentation>
      Something else happened, tell us what
    </xs:documentation>
    <xs:appinfo>
```

```
        Explain
      </xs:appinfo>
    </xs:annotation>
    <xs:sequence>
      <xs:element maxOccurs="1" minOccurs="0" name="Explain" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>

  <xs:simpleType name="DiscoveredType">
    <xs:annotation>
      <xs:documentation>
        Responses for Question 5, How was this incident discovered or reported to
you?
      </xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:string">
      <xs:enumeration value="0">
        <xs:annotation>
          <xs:documentation>
            Pollution hotline (phone, web, app)
          </xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="1">
        <xs:annotation>
          <xs:documentation>
            Direct report to your staff
          </xs:documentation>
        </xs:annotation>
      </xs:enumeration>
```

```
<xs:enumeration value="2">
  <xs:annotation>
    <xs:documentation>
      Staff referral
    </xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="3">
  <xs:annotation>
    <xs:documentation>
      Other agency referral
    </xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="4">
  <xs:annotation>
    <xs:documentation>
      ERTS referral
    </xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="5">
  <xs:annotation>
    <xs:documentation>
      Business inspection
    </xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="6">
  <xs:annotation>
```

```
          <xs:documentation>
            Construction inspection
          </xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="7">
        <xs:annotation>
          <xs:documentation>
            MS4 inspection or screening
          </xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="8">
        <xs:annotation>
          <xs:documentation>
            Other
          </xs:documentation>
          <xs:appinfo>
            Explain
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>

  <xs:complexType name="AddressType">
    <xs:annotation>
      <xs:documentation>
        Responses for Question 7. Incident Location
      </xs:documentation>
```

```
    </xs:annotation>
    <xs:sequence>
      <xs:element maxOccurs="1" minOccurs="0" name="Address" type="xs:string">
        <xs:annotation>
          <xs:documentation>
            Address/Intersection
          </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element maxOccurs="1" minOccurs="0" name="City" type="xs:string">
        <xs:annotation>
          <xs:documentation>
            City
          </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element maxOccurs="1" minOccurs="0" name="PostalCode" type="xs:string">
        <xs:annotation>
          <xs:documentation>
            Zip
          </xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
  </xs:complexType>

  <xs:complexType name="LatLongType">
    <xs:annotation>
      <xs:documentation>
        Latitude Longitude pair.
```

```
      </xs:documentation>
    </xs:annotation>
    <xs:sequence>
      <xs:element name="Latitude" type="LatNumber">
        <xs:annotation>
          <xs:documentation>
            Latitude
          </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="Longitude" type="LongNumber">
        <xs:annotation>
          <xs:documentation>
            Longitude
          </xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
  </xs:complexType>

  <xs:simpleType name="LatNumber">
    <xs:annotation>
      <xs:documentation>
        Latitude, 6 decimal digits.
      </xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:decimal">
      <xs:totalDigits value="8" />
      <xs:fractionDigits value="6" />
      <xs:minInclusive value="-90" />
```

```
    <xs:maxInclusive value="90" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="LongNumber">
  <xs:annotation>
    <xs:documentation>
      Longitude, 6 decimal digits.
    </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:decimal">
    <xs:totalDigits value="9" />
    <xs:fractionDigits value="6" />
    <xs:minInclusive value="-180" />
    <xs:maxInclusive value="180" />
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="PollutantType">
  <xs:annotation>
    <xs:documentation>
      Responses for Question 8, Pollutants Identified
    </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="0">
      <xs:annotation>
        <xs:documentation>
          Unconfirmed, unspecified, or not identified
        </xs:documentation>
```

```
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="1">
  <xs:annotation>
    <xs:documentation>
      Fuel and/or vehicle related fluids
    </xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="2">
  <xs:annotation>
    <xs:documentation>
      Food-related oil/grease
    </xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="3">
  <xs:annotation>
    <xs:documentation>
      Sediment/soil
    </xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="4">
  <xs:annotation>
    <xs:documentation>
      Solid waste/trash
    </xs:documentation>
  </xs:annotation>
</xs:enumeration>
```

```
<xs:enumeration value="5">
  <xs:annotation>
    <xs:documentation>
      Sewage/septage/pet waste/human waste
    </xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="6">
  <xs:annotation>
    <xs:documentation>
      Other wastewater
    </xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="7">
  <xs:annotation>
    <xs:documentation>
      Paint
    </xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="8">
  <xs:annotation>
    <xs:documentation>
      Firefighting foam
    </xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="9">
  <xs:annotation>
```

```
          <xs:documentation>
            Soap or cleaning chemicals
          </xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="10">
        <xs:annotation>
          <xs:documentation>
            Other
          </xs:documentation>
          <xs:appinfo>
            Explain
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="SourceType">
    <xs:annotation>
      <xs:documentation>
        Responses for Question 9, Source or cause
      </xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:string">
      <xs:enumeration value="0">
        <xs:annotation>
          <xs:documentation>
            Unconfirmed, unspecified, or not identified
          </xs:documentation>
```

```
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="1">
  <xs:annotation>
    <xs:documentation>
      Vehicle-related business
    </xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="2">
  <xs:annotation>
    <xs:documentation>
      Food-related business
    </xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="3">
  <xs:annotation>
    <xs:documentation>
      Landscape-related business
    </xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="4">
  <xs:annotation>
    <xs:documentation>
      Mobile business
    </xs:documentation>
  </xs:annotation>
</xs:enumeration>
```

```
<xs:enumeration value="5">
  <xs:annotation>
    <xs:documentation>
      Construction activity
    </xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="6">
  <xs:annotation>
    <xs:documentation>
      Other commercial/industrial activity
    </xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="7">
  <xs:annotation>
    <xs:documentation>
      Vehicle collision
    </xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="8">
  <xs:annotation>
    <xs:documentation>
      Other accident/spill
    </xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="9">
  <xs:annotation>
```

```
          <xs:documentation>
            Intentional dumping
          </xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="10">
        <xs:annotation>
          <xs:documentation>
            Illicit connection
          </xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="11">
        <xs:annotation>
          <xs:documentation>
            Other
          </xs:documentation>
          <xs:appinfo>
            Explain
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="TraceType">
    <xs:annotation>
      <xs:documentation>
        Responses for Question 10, Source tracing approach(es) used
      </xs:documentation>
```

```
</xs:annotation>
<xs:restriction base="xs:string">
  <xs:enumeration value="0">
    <xs:annotation>
      <xs:documentation>
        Not applicable
      </xs:documentation>
    </xs:annotation>
  </xs:enumeration>
  <xs:enumeration value="1">
    <xs:annotation>
      <xs:documentation>
        Observation (color/sheen/turbidity/floatables/odor)
      </xs:documentation>
    </xs:annotation>
  </xs:enumeration>
  <xs:enumeration value="2">
    <xs:annotation>
      <xs:documentation>
        Map analysis
      </xs:documentation>
    </xs:annotation>
  </xs:enumeration>
  <xs:enumeration value="3">
    <xs:annotation>
      <xs:documentation>
        Dye, smoke, or pressure testing
      </xs:documentation>
    </xs:annotation>
  </xs:enumeration>
```

```
      <xs:enumeration value="4">
        <xs:annotation>
          <xs:documentation>
            Field indicator measurements
          </xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="5">
        <xs:annotation>
          <xs:documentation>
            Analytical laboratory indicators
          </xs:documentation>
        </xs:annotation>
      </xs:enumeration>
      <xs:enumeration value="6">
        <xs:annotation>
          <xs:documentation>
            Other
          </xs:documentation>
          <xs:appinfo>
            Explain
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="CorrectionType">
    <xs:annotation>
      <xs:documentation>
```

```
      Responses for Question 11, Correction/elimination methods used
    </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="0">
      <xs:annotation>
        <xs:documentation>
          Clean-up
        </xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="1">
      <xs:annotation>
        <xs:documentation>
          Education/technical assistance
        </xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="2">
      <xs:annotation>
        <xs:documentation>
          Add or modify operational source control BMP
        </xs:documentation>
      </xs:annotation>
    </xs:enumeration>
    <xs:enumeration value="3">
      <xs:annotation>
        <xs:documentation>
          Add or modify structural source control BMP
        </xs:documentation>
```

```
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="4">
  <xs:annotation>
    <xs:documentation>
      Add or modify treatment BMP
    </xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="5">
  <xs:annotation>
    <xs:documentation>
      Enforcement
    </xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="6">
  <xs:annotation>
    <xs:documentation>
      Referred to other agency or department
    </xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="7">
  <xs:annotation>
    <xs:documentation>
      Other
    </xs:documentation>
    <xs:appinfo>
      Explain
```

```
          </xs:appinfo>
        </xs:annotation>
      </xs:enumeration>
    </xs:restriction>
  </xs:simpleType>
</xs:schema>
```

Appendix B

Permit Appendix 4 – Annual Report Questions for Secondary Permittees

APPENDIX 4 – Annual Report Questions for Secondary Permittees

Permittees are required to submit annual reports online or in a format provided by Ecology, upon request, pursuant to Permit condition S9.

S6.D Stormwater Management Program

1. **Attach** a map of any jurisdictional boundary changes resulting in an increase or decrease in the Secondary Permittee's geographic area of coverage during the reporting period. (Required annually, S9.E.6)
2. **Attach** updated annual Stormwater Management Program Plan (SWMP Plan). (S6.A.2)
3. If applicable, identify other entities relied on to satisfy any of the obligations under the Permit. (S9.E.4)

S6.D.1 Public Education and Outreach

4. Labeled all storm drain inlets owned or operated by the Secondary Permittee that are located in maintenance yards, in parking lots, along sidewalks, and at pedestrian access points. (New Secondary Permittees – Required no later than four years from initial date of Permit coverage, S6.D.1.a)
5. Re-labeled all storm drain inlets with labels when no longer clearly visible and/or easily readable within 90 days. (Required no later than four years from initial date of Permit coverage, S6.D.1.a)
6. (***Public ports, colleges, and universities only***) Distributed educational information to tenants and residents about the impact of stormwater discharges on receiving waters and steps that can be taken to reduce pollutants in stormwater runoff. (Required no later than three years from initial date of Permit coverage, S6.D.1.b)

S6.D.2 Public Involvement and Participation

7. Made the annual report and SWMP Plan available on website. (Required annually no later than May 31, S6.D.2.a and b.)

S6.D.3 Illicit Discharge Detection and Elimination

8. Complied with all relevant ordinances, rules, and regulations of the local jurisdiction(s) that govern non-stormwater discharges. (Required after initial date of Permit coverage, S6.D.3.a)

9. Implemented policies to prohibit illicit discharges and identified enforcement mechanisms. (New Secondary Permittees – Required no later than one year from initial date of Permit coverage, S6.D.3.b)

10. Updated policies to prohibit illicit discharges and identified enforcement mechanisms. (Required no later than July 1, 2027, S6.D.3.b)

11. Implemented an enforcement plan to ensure compliance with policies to prohibit illicit discharges. (New Secondary Permittees – Required no later than 18 months from initial date of Permit coverage, S6.D.3.b)

12. Developed and maintained a map of the storm sewer system showing all known storm drain outfalls, receiving waters, and areas contributing runoff to each outfall. (New Secondary Permittees – Required no later than four and one half years from initial date of Permit coverage, S6.D.3.c)

13. Maintained an electronic map of the MS4 showing all known storm drain outfalls, receiving waters, and areas contributing runoff to each outfall. Made the map available on request to Ecology or others. (Required by December 31, 2026; S6.D.3.c)

14. Submitted locations of all known MS4 outfalls, including size and material, (S5.D.3.c.ii. March 31, 2027). The data shall be in one of the following formats and templates:

- ESRI file geodatabase template[1] (feature class in a .gdb)
- Shapefile template[2]
- ArcGIS Online template (sharing template a or b via ArcGIS Online)
- Excel template[3]

15. Conducted field inspections and visually inspected for illicit discharges at approximately one third of all known MS4 outfalls. (Required no later than two years from initial date of Permit coverage, S6.D.3.d)

16. Implemented procedures to identify and remove illicit discharges. (Required no later than two years from initial date of Permit coverage, S6.D.3.d)

17. **Attach** a summary of each illicit discharge discovered and actions taken to eliminate each of the discharges. (S6.D.3.d).

[1] https://fortress.wa.gov/ecy/ezshare/wq/permits/MS4GP.Mapoutfall.prelim.gdb.zip
[2] https://fortress.wa.gov/ecy/ezshare/wq/permits/MS4GP.Mapoutfall.prelim.shape.zip
[3] https://fortress.wa.gov/ecy/ezshare/wq/permits/MS4GP.Mapoutfall.prelim.excel.xlsx

18. Implemented a spill response plan that includes coordination with a qualified spill responder. (Required no later than four and one-half years from initial date of Permit coverage, S6.D.3.e)

19. Provided staff training or coordinated with existing training to educate staff on proper BMPs for preventing illicit discharges, including spills, as described in S6.D.3.f. (Required no later than two years from initial date of Permit coverage)

S6.D.4 Construction Site Stormwater Control

20. Complied with all relevant ordinances, rules, and regulations of the local jurisdiction(s) that govern construction phase stormwater pollution prevention activities, if applicable. (Required after initial date of Permit coverage, S6.D.4.a)

21. Ensured that all applicable construction projects under the functional control of the Secondary Permittee obtained NPDES Permit coverage. (Required after initial date of Permit coverage, S6.D.4.b)

22. Coordinated with local jurisdictions on construction projects owned or operated by other entities that discharge into Secondary Permittee's MS4, as per S6.D.4.c. (Required after initial date of Permit coverage)

23. Provided training for relevant staff in erosion and sediment control BMPs and requirements or hired trained contractors to perform the work for all construction projects owned and operated by the Secondary Permittee. (Required after initial date of permit coverage, S6.D.4.d)

24. Provided access, as requested, for inspection of construction sites under the control of the Secondary Permittee during the land disturbing activity and/or construction period. (Required after initial date of Permit coverage, S6.D.4.e)

S6.D.5 Post-Construction Stormwater Management for New Development and Redevelopment

25. Complied with all relevant ordinances, rules, and regulations of the local jurisdiction(s) that govern post-construction stormwater pollution prevention activities, including proper operation and maintenance of the MS4. (Required after initial date of Permit coverage, S6.D.5.a)

26. Coordinated with local jurisdiction regarding projects owned or operated by other entities which discharge into the Secondary Permittee's MS4. (Required after initial date of Permit coverage, S6.D.5.b)

S6.D.6 Pollution Prevention and Good Housekeeping for Municipal Operations

27. Implemented an Operation and Maintenance program. (New Secondary Permittees – Required no later than three years from initial date of Permit coverage, S6.D.6.a)

28. Updated O&M Plan, as needed, no later than July 1, 2027 (S6.D.6.a).

29. Established and implemented maintenance standards for stormwater collection and conveyance systems, as described in S6.D.6.a.i. (New Secondary Permittees – Required no later than three years from initial date of Permit coverage.)

30. Conducted spot checks of potentially damaged stormwater treatment and flow control BMPs/facilities after major storms. (New Secondary Permittees – Required no later than three years from initial date of Permit coverage, S6.D.6.a.i)

31. Developed and implemented a Stormwater Pollution Prevention Plan (SWPP) for material storage areas, heavy equipment maintenance or storage yards not covered by another NPDES Permit that authorizes stormwater discharges associated with the activity. (New Secondary Permittees – Required no later than three years from initial date of Permit coverage, S6.D.6.a.viii)

32. Have NPDES Permit coverage for *Industrial Stormwater General Permit* for all applicable industrial facilities operated by the Permittee, or another NPDES Permit that authorizes surface water discharges associated with the activity. (Required after initial date of Permit coverage, S6.D.6.b)

33. Implemented a program designed to train staff to carry out the Operations and Maintenance plan as described in S6.D.6.d. (Required no later than three years from initial date of Permit coverage)

S7. Compliance with Total Maximum Daily Load Requirements

34. Is there an approved Total Maximum Daily Load (TMDL) applicable to stormwater discharges from a MS4 owned or operated by the Permittee? (S7)

35. Complied with the specific requirements identified in Appendix 2. (S7.A)

36. **Attach** status report of TMDL implementation. (S7.A)

General Conditions

37. Notified Ecology of the failure to comply with the Permit terms and conditions within 30 days of becoming aware of the non-compliance. (G20)

38. Notified Ecology immediately in cases where the Permittee becomes aware of a discharge into or from the Permittee's MS4 which may constitute a threat to human health, welfare, or the environment. (G3)

39. Took appropriate action to correct or minimize discharges into or from the MS4 which could constitute a threat to human health, welfare, or the environment. (G3.A)

S4 Compliance with Standards

40. If applicable, **attach** a summary of the status of implementation of any actions taken pursuant to S4.F, and the status of any monitoring, assessment, or evaluation efforts conducted during the reporting period. (S4.F.3.d)

Appendix C

Permit Appendix 6 – Street Waste Disposal Guidelines

APPENDIX 6 – Street Waste Disposal

Street Waste Liquids General Procedures

Street waste collection should emphasize retention of solids in preference to liquids. Street waste solids are the principal objective in street waste collection and are substantially easier to store and treat than liquids.

Street waste liquids require treatment before their discharge. Street waste liquids, which include, but are not limited to, eductor and street sweeping truck decant and drainage from piles and containers, usually contain high amounts of suspended and total solids and absorbed metals. Treatment requirements depend on the discharge location.

Discharges to sanitary sewer and storm sewer systems must be approved by the entity responsible for operation and maintenance of the system. Ecology will not generally require waste discharge permits for discharge of stormwater decant to sanitary sewers or to stormwater treatment BMPs constructed and maintained in accordance with Ecology's *Stormwater Management Manual for Western or Eastern Washington,* as appropriate.

The following order of preference, for disposal of liquid from collection of street waste and water removed from stormwater treatment BMPs, is ***required***.

1. **Discharge of street waste decant liquids to a municipal sanitary sewer connected to a Publicly Owned Treatment Works (POTW) is the *preferred disposal option*.** Discharge to a municipal sanitary sewer requires the approval of the sewer authority. Approvals for discharge to a POTW will likely contain pretreatment, quantity, and location conditions to protect the POTW.

2. **Discharge of street waste decant liquids may be allowed into a Basic or Metals Runoff Treatment BMP, if option 1 is not available.** Street waste liquid may be discharged back into the storm sewer system under the following conditions only when ***all*** of the following apply:
   - The preferred disposal option of discharge to sanitary sewer is not reasonably available;
   - The liquid comes from street waste only. Do not send liquids decanted from sanitary wastes to stormwater BMPs;
   - The discharge is to a Basic or Metals Runoff Treatment BMP. If pretreatment does not remove visible sheen from oils, the Runoff Treatment BMP must be able to prevent the discharge of oils causing a visible sheen;

- The discharge from the eductor or sweeper truck is as near to the inlet of the Runoff Treatment BMP as is practical, to minimize contamination or recontamination of the collection system;
- The storm sewer system owner/operator has granted approval and has determined that the Runoff Treatment BMP will accommodate the increased loading. Pretreatment conditions to protect the Runoff Treatment BMP may be issued as part of the approval process. Following local pretreatment conditions is a requirement of this Permit; and
- Ecology must approve in advance flocculants for the pretreatment of street waste liquids. The liquids must be non-toxic under the circumstances of use. If the owner/operator adds flocculants to street waste liquids, they must follow the requirements of BMP C250/C250E: Construction Stormwater Chemical Treatment and BMP C251/251E: Construction Stormwater Filtration.

The reasonable availability of sanitary sewer discharge will be determined by the Permittee, by evaluating such factors as distance, time of travel, load restrictions, and capacity of the Runoff Treatment BMP.

3. **Operators may temporarily place portable tanks (e.g. Baker Tanks) near where sweeping is taking place to temporarily hold water and solids from the sweeper**. Transfer this water/solid mixture to the decant facility at a later time.

4. **Operators may discharge liquids removed from the street while sweeping during rain events, if the designated decant facility is a distance away (i.e., travel time would significantly impact the amount of sweeping).** When sweeping during rain events, the sweeper will fill with water quickly.

   Discharge to Wastewater Collection System: Operators may discharge water from eductor or sweeper trucks to the wastewater collection system through manholes located in the street that is swept with approval from the Sewer Authority. The method used to move water from the sweeper to the wastewater collection system should be developed by the Sewer Authority.

   Discharge to Stormwater Collection System: Operators may discharge clear decanted water to the stormwater collection system for the roadway being swept when all of the conditions listed below apply. Operators cannot deposit decanted water into a collection system different from the system for the roadway being swept. Conditions to discharge:

   - The catch basin receiving the decanted water already receives runoff from the swept street.
   - The water entering the sweeper storage tank is runoff from the street and not water placed on the street by a water truck or the sweeper during the sweeping operation.

- The sweeper stays in place for a minimum of 15 minutes at the discharge location to allow solids to settle prior to decanting the water from the storage tank.
- The operator places an appropriately sized catch basin filter in the catch basin or a filter sock attached to the end of the outlet hose allowing for a slow release of water. Remove the catch basin filter or filter sock following its use.
- The operator stops discharging liquids to the catch basin when there is a concentration of solids leaving the tank.
- The storm sewer system owner/operator shall approve the discharge.

5. **Operators may return water removed from stormwater ponds, vaults, and oversized catch basins to the storm sewer system.** Stormwater ponds, vaults, and oversized catch basins contain substantial amounts of liquid, which hampers the collection of solids and poses problems if the removed waste must be hauled away from the site. Water removed from these facilities may be discharged back into the pond, vault, or oversized catch basin provided:
   - Clear water removed from a stormwater treatment structure may be discharged directly to a down gradient cell of a treatment pond or into the storm sewer system.
   - Turbid water may be discharged back into the structure it was removed from if:
     - The removed water has been stored in a clean container (eductor truck, Baker tank, or other appropriate container or facility used specifically for handling stormwater or clean water); ***and***
     - There will be no discharge from the pond, vault, or oversized catch basin for at least 24 hours.
   - The discharge must be approved by the storm sewer system owner/operator.

Street Waste Solids

Soils generated from maintenance of the MS4 may be reclaimed, recycled or reused when allowed by local codes and ordinances. Street Wastes are defined in Chapter 173-350 WAC[1]. Soils that are identified as contaminated, pursuant to Chapter 173-350 WAC, shall be disposed of at a qualified solid waste disposal facility.

Typically, the County Health Department produces permits for disposal of solid waste and not Ecology. Ecology's authority does not extend to actual disposal of street waste material.

[1] https://apps.leg.wa.gov/wac/default.aspx?cite=173-350