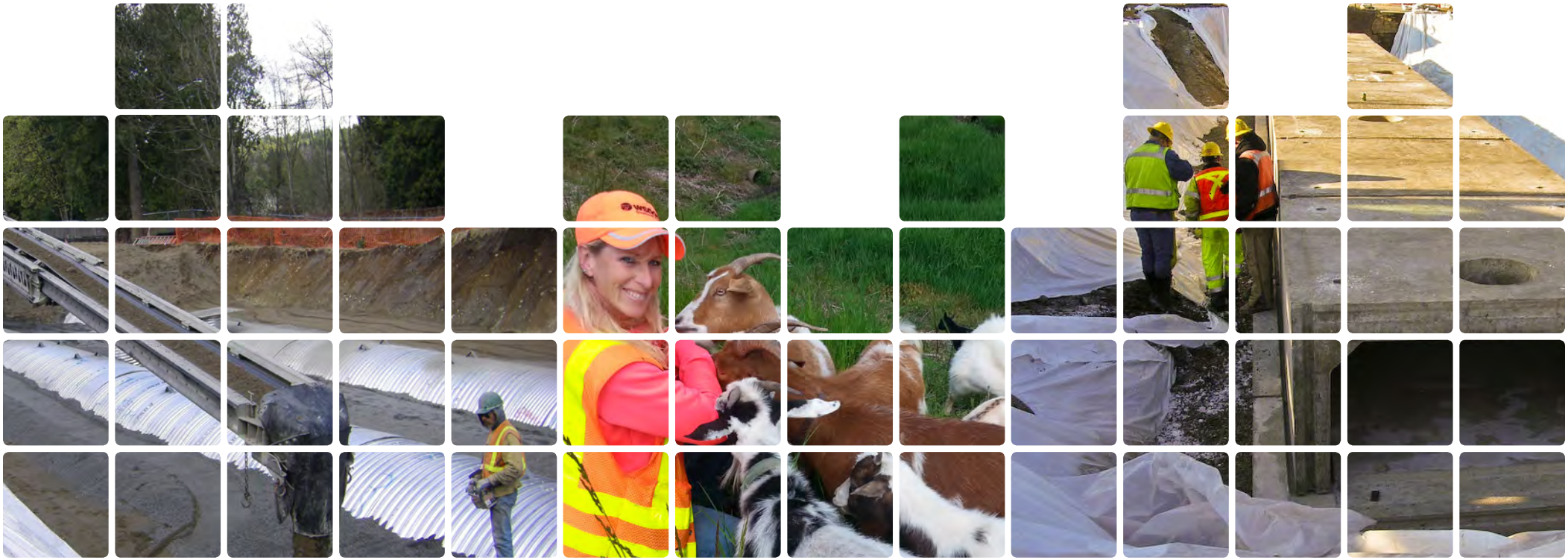
2021
STORMWATER REPORT

NPDES Municipal Stormwater Permit Annual Report for Fiscal Year 2021



Washington State
Department of Transportation

Title VI, ADA

Title VI Notice to Public

It is the Washington State Department of Transportation's (WSDOT) policy to assure that no person shall, on the grounds of race, color, national origin or sex, as provided by Title VI of the Civil Rights Act of 1964, be excluded from participation in, be denied the benefits of, or be otherwise discriminated against under any of its federally funded programs and activities. Any person who believes his/her Title VI protection has been violated, may file a complaint with WSDOT's Office of Equal Opportunity (OEO). For additional information regarding Title VI complaint procedures and/or information regarding our non-discrimination obligations, please contact OEO's Title VI Coordinator at (360) 705-7082.

Americans with Disabilities Act (ADA) Information

This material can be made available in an alternate format by emailing the WSDOT Diversity/ADA Affairs team at wsdotada@wsdot.wa.gov or by calling toll free, 855-362-4ADA (4232). Persons who are deaf or hard of hearing may make a request by calling the Washington Relay at 711.

Contents

Table of Contents

List of Figures

List of Tables

List of Acronyms

BMP	Best Management Practice
CAB	Compost Amended Bioswale
CESCL	Certified Erosion and Sediment Control Lead
CSWGP	Construction Stormwater General Permit
EPA	Environmental Protection Agency
GIS	Geographic Information System
GPS	Global Positioning System
HRM	Highway Runoff Manual
IDDE	Illicit Discharge Detection and Elimination
MS4	Municipal Separate Storm Sewer System
NPDES	National Pollutant Discharge Elimination System
PCB	Polychlorinated Biphenyl
QAPP	Quality Assurance Project Plan
RCW	Revised Code of Washington
SWMPP	Stormwater Management Program Plan
SWPPP	Stormwater Pollution Prevention Plan
TAPE	Technology Assessment Protocol - Ecology
TER	Technical Evaluation Report
TESC	Temporary Erosion and Sediment Control
TMDL	Total Maximum Daily Load
VFS	Vegetated Filter Strip
WSDOT	Washington State Department of Transportation
WSF	Washington State Ferries

Certification

Certification and Signature for Washington State Department of Transportation's National Pollutant Discharge Elimination System Municipal Stormwater Permit 2021 Stormwater Report

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.

Megan White Digitally signed by Megan White
Date: 2021.10.20 08:06:48 -07'00'

_____

Megan White, P.E. Director
Environmental Services Office
Washington State Department of Transportation

STORMWATER MANAGEMENT

Historically, WSDOT managed stormwater to maintain safe driving conditions and preserve the condition of the roadway. WSDOT focused on getting the stormwater off the roadway as fast as possible. While safety and preservation continue to be top priorities for WSDOT, today the agency also manages stormwater from state transportation facilities to fulfill its environmental stewardship goals as well as regulatory obligations. WSDOT uses stormwater operational and structural best management practices (BMPs) to minimize pollution and control stormwater runoff flows from its roadways.

WATER QUALITY REGULATIONS

Clean Water Act

The Federal Water Pollution Control Act, also known as the Clean Water Act, aims to restore and maintain the chemical, physical, and biological integrity of the Nation's waters. It addresses effects from stormwater discharges through the National Pollutant Discharge Elimination System (NPDES) program. Under this program, the Environmental Protection Agency (EPA) issues permits regulating stormwater discharges to receiving water bodies. In Washington State, the EPA delegated permitting authority of the NPDES program to the Department of Ecology (Ecology).

WSDOT's NPDES Municipal Stormwater Permit

WSDOT's NPDES and State Waste Discharge Permit for Municipal Stormwater (permit) is tailored to the linear nature and unique constraints of the transportation system. Compliance with this permit constitutes compliance with the Clean Water Act and the State of Washington Water Pollution Control Act (Chapter 90.48 RCW).

AREAS COVERED BY THE PERMIT

Phase I and II Permit Areas

WSDOT's permit covers stormwater discharges from stormwater conveyance systems (municipal separate storm sewer systems, or MS4s) owned or operated by WSDOT in areas covered by the Phase I and II permits. Discharges covered include those from highways, ferry terminals, rest areas, park and ride lots, maintenance facilities, vactor decant and street sweeping facilities, and winter chemical storage facilities. All permit requirements are implemented in these areas. A map of permit-covered facilities within Phase I and II permit areas appears on page 2.

Total Maximum Daily Load Areas

WSDOT's permit also covers stormwater discharges to any receiving water body in Washington State for which there is an EPA-approved Total Maximum Daily Load (TMDL) with wasteload allocations and implementation documents specifying actions for WSDOT. Compliance with the specific action items prescribed in Appendix 3 of the permit constitutes compliance with TMDL wasteload allocations. A map of permit-covered facilities within TMDL areas is located in Chapter 2.

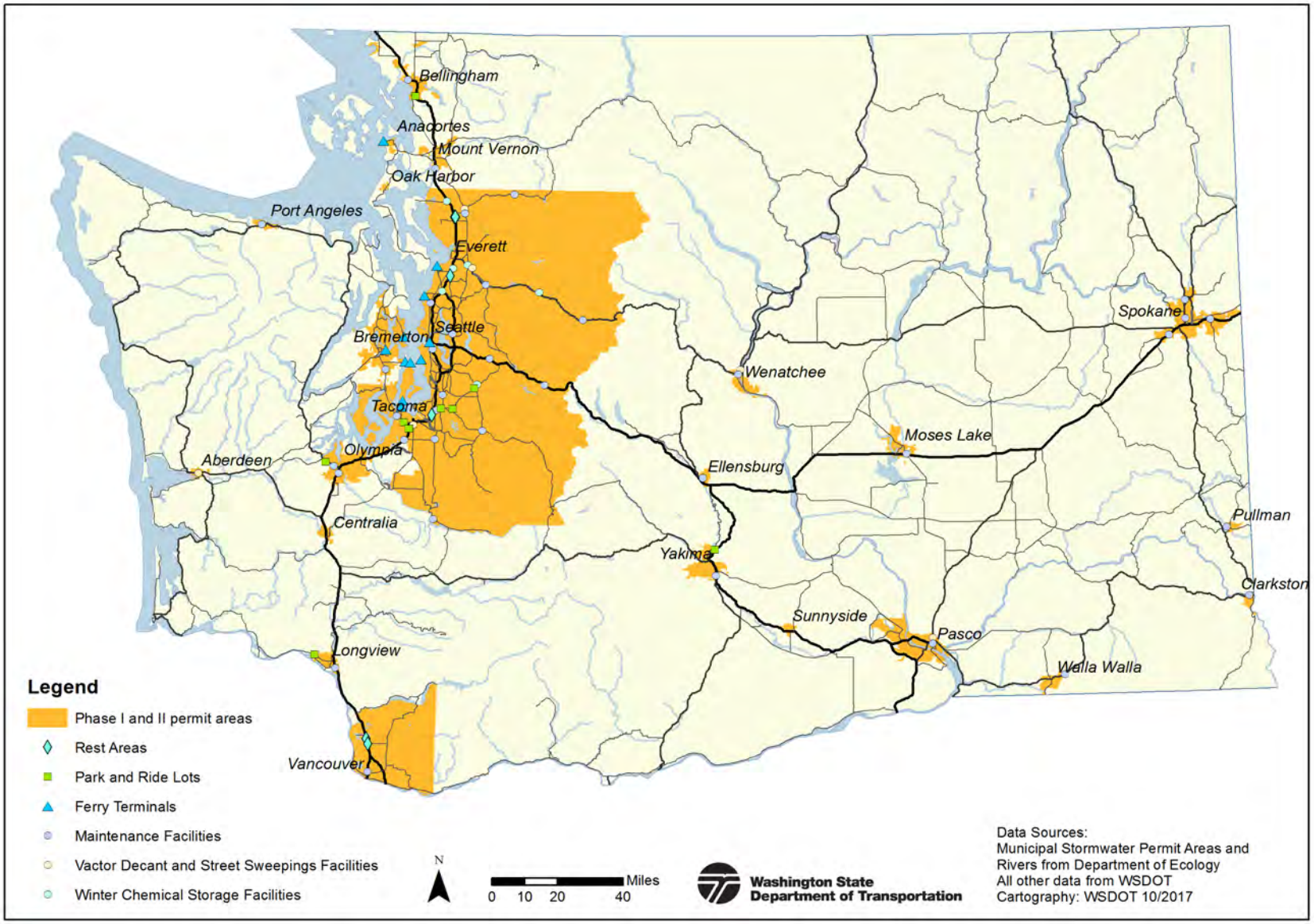


Figure 1. WSDOT facilities within Phase I and II Municipal Stormwater Permit areas.

HOW TO USE THIS REPORT

Compliance and Information Document

This Stormwater Report serves as WSDOT's permit-required annual report. It provides a status update on permit compliance and implementation from July 1, 2020 to June 30, 2021, the reporting period. WSDOT submits separate reports to fulfill its reporting requirements related to stormwater monitoring.

WSDOT uses the Stormwater Report to help assess the appropriateness and effectiveness of various programs and activities described in its Stormwater Management Program Plan (SWMPP).

PERMIT IMPLEMENTATION COSTS

Funding Requests for Permit Implementation

The permit requires WSDOT to request adequate resources to maintain compliance with the permit in its agency-request budget submittal to the Governor's Office. Once the budget request is received by the Office of Financial Management within the Governor's Office, the Governor submits a transportation budget to the Legislature recommending funding levels and allocations. Any amount requested supplements ongoing permit implementation funds from the previous biennium. WSDOT did not need to request additional resources during this biennium.

Permit Implementation Costs

The permit requires WSDOT to track the cost of implementing the permit and provide this information to Ecology upon request.

TRIGGERED REPORTING ITEMS

Notification of Spills

According to General Condition G3 in the permit, if WSDOT knows of a spill into its MS4 which could constitute a threat to human health, welfare, or the environment, WSDOT must notify Ecology. In this reporting period, Ecology was notified of 62 G3 spills as summarized in Appendix 3 of this report.

Compliance with Permit Obligations

The permit requires WSDOT to notify Ecology if it fails to comply with an obligation in the permit. Under General Condition G20 of the permit, this notification must include a description of the non-compliance and the time period for which it is expected to continue. A G20 notification must also include actions taken or planned to reduce, eliminate, and prevent reoccurrence of the non-compliance. In 2021, WSDOT submitted one G20 for not meeting the stormwater system mapping pace required in the permit due to COVID-19 restrictions. The G20 is explained on page 16 of this report.

Notification of Upsets

The permit requires WSDOT to include a summary in this report of any G21 notifications to Ecology regarding upsets. An upset is an exceptional incident in which there is unintentional and temporary noncompliance due to factors beyond the reasonable control of WSDOT. WSDOT did not need to submit any such notifications to Ecology during this reporting period.

WSDOT's Stormwater Management Program Plan

The permit requires WSDOT to implement a Stormwater Management Program comprised of the program components and requirements listed in permit section S5. WSDOT's SWMPP fulfills that obligation and documents the procedures and practices used to reduce the discharge of pollutants from storm sewer systems owned or operated by WSDOT. The SWMPP is updated annually and submitted with the Stormwater Report. It is available for review and comment anytime throughout the reporting period at www.wsdot.wa.gov/environment/protecting-environment/managing-stormwater-state-highways. Feedback is reviewed and incorporated as appropriate during the annual update process.

Standards for Discharges

The permit requires WSDOT to include a summary in this report of any actions taken regarding Special Condition S4 of the permit. These actions include notifying Ecology about any discharge from WSDOT's MS4 that causes or contributes to a known or likely violation of water quality standards in a receiving water body. WSDOT did not need to submit any such notifications to Ecology during this reporting period.

TOTAL MAXIMUM DAILY LOADS IN THE PERMIT

TMDL implementation plans provide water quality targets and assign action items to permittees in watersheds to achieve compliance with water quality standards. The permit requires WSDOT to comply with the action items and associated timelines listed in Appendix 3 of the permit. The permit currently includes 31 TMDLs statewide as seen in Figure 3.

IMPLEMENTING TMDL REQUIREMENTS

Actions Required by TMDLs

The permit requires WSDOT to summarize the status of compliance with each of the TMDL-related action items in the permit. Table 3 in Appendix 1 of this report provides this information. In addition to the actions listed in the summary table, WSDOT implemented the *Highway Runoff Manual* (HRM) in all of the TMDL areas as required by the permit.

WSDOT's Involvement in TMDL Development

As encouraged in the permit, WSDOT participates in Ecology's TMDL development process. During this reporting period, WSDOT participated in the development process for the following TMDLs (with the pollutants of concern noted in parentheses). WSDOT expects most of these TMDLs will be added to WSDOT's 2024 permit.

- South Fork Nooksack River (temperature)
- Pilchuck River (dissolved oxygen, temperature)

Figure 2. The Pilchuck River TMDL is currently under development for dissolved oxygen and temperature concerns.

- Whatcom Creek (bacteria)
- Little Spokane River (pH, dissolved oxygen, total phosphorus)
- Mid-Yakima Basin (bacteria)
- Lower White River (pH)
- EPA's Columbia and lower Snake Rivers (temperature)
- EPA's Deschutes River (replacement TMDLs for sediment, bacteria, dissolved oxygen, pH, temperature)

WSDOT also participated in the development process or implementation of the following impairment-related stakeholder groups and task forces:

- Burnt Bridge Creek Source Assessment
- Green-Duwamish River Pollutant Loading Assessment
- Our Green-Duwamish Workshop
- Puget Sound Nutrient Forum
- Spokane River Regional Toxics Task Force
- East Fork Lewis River TMDL Alternative

- Lower Yakima Watershed Pesticides Reduction Plan (TMDL Alternative)
- Poverty Bay Technical Committee
- Spokane Regional Conservation Partnership

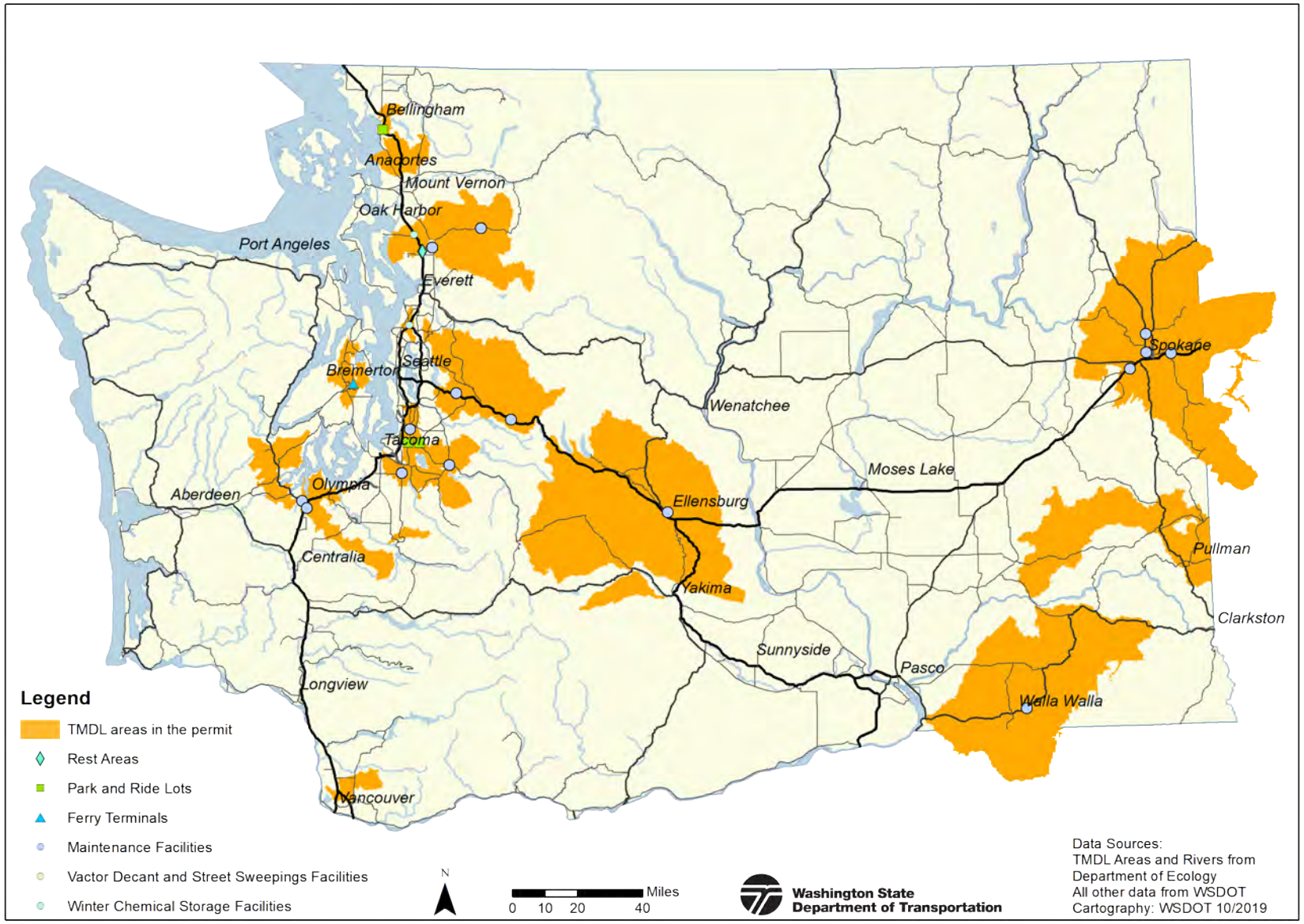


Figure 3. WSDOT facilities within TMDLs included in the permit.

TEMPORARY EROSION AND SEDIMENT CONTROL

Certification and Training

Construction projects use temporary erosion and sediment control (TESC) plans, which consist of a narrative and site plan sheets, to identify project-specific risks related to erosion and strategies for managing those risks. TESC plans must be kept on site and updated to reflect site conditions and BMP adaptive management.

WSDOT staff and consultants responsible for designing TESC plans and inspecting construction sites must take WSDOT's Construction Site Erosion and Sediment Control training class. Taking the class either renews current Certified Erosion and Sediment Control Lead (CESCL) certification or fulfills the eight-hour in-class component for new or expired certifications. A CESCL certification is required for anyone performing weekly site inspections required by the NPDES Construction Stormwater General Permit (CSWGP). WSDOT's class covers topics including the regulatory framework for construction activities, CSWGP compliance, spill prevention techniques, erosion and sediment control BMPs, and the TESC planning process. During this reporting period, WSDOT held five remote Construction Site Erosion and Sediment Control trainings and 159 people received the training.

Figure 4. Plastic is used during the construction process to prevent erosion.

FALL ASSESSMENTS

Between September and November each year, WSDOT assesses all active construction projects identified as having a moderate to high risk of erosion as defined in WSDOT's *TESC Manual*. Projects are identified based on the amount of disturbed soil, slope length and gradient, soil type, and proximity to receiving water bodies. If the fall assessment reveals TESC plan or BMP deficiencies, WSDOT's Erosion Control Lead follows up with the project offices to provide recommendations and technical assistance to improve site conditions prior to the wet season. In fall 2020, WSDOT assessed 13 construction projects statewide.

Summary and Lessons Learned from 2020 Fall Assessments

WSDOT evaluates construction projects using the 13 planning elements identified in the CSWGP. The evaluation allows WSDOT to identify performance trends, described below.

Most projects met or exceeded compliance recommendations for the following planning elements:

- Mark clearing limits
- Establish construction access
- Control flow rates
- Install sediment controls
- Protect slopes
- Protect drain inlets
- Stabilize channels and outlets
- Control dewatering
- Manage the project

The most common deficiencies identified in the 2020 fall assessments were adequate soil stabilization, BMP maintenance, and implementation of effective pollution prevention measures to minimize the discharge of pollutants. WSDOT's Environmental Services and State Construction Offices have identified opportunities for improvement through increased communication, education and outreach via virtual pre and post assessment meetings, and "just in time" webinars and trainings throughout the year focused on improving erosion and sediment control statewide.

In addition, WSDOT will continue to improve and update Construction Site Erosion and Sediment Control training curriculum, internal manuals, and *Standard Specifications* in the interest of continued improvement.

PLANNING AND DESIGNING NEW FACILITIES

When WSDOT constructs or modifies transportation facilities, it incorporates stormwater management BMPs to minimize adverse effects of stormwater runoff on receiving water bodies. WSDOT uses its *Highway Runoff Manual* and *Hydraulics Manual* to provide consistent design and planning procedures statewide and meet the level of stormwater management established by Ecology's stormwater management manuals.

Stormwater BMPs

The permit requires WSDOT to report the number and type of stormwater BMPs built annually. A table summarizing the number and types of BMPs built statewide appears in Appendix 2 of this report.

Highway Runoff Manual Training

The permit requires WSDOT to report the number of HRM training opportunities and the number of staff trained. WSDOT trains staff and consultants who design stormwater management BMPs to help ensure they understand and use the design procedures in the HRM. In this reporting period WSDOT offered two instructor led virtual classes, training 39 WSDOT staff, 38 local agency staff, and 50 consultant staff.

Tracking New Stormwater Outfalls, Discharge Points, and BMPs

The permit requires WSDOT to enter key features and locations of newly constructed stormwater treatment and flow control facilities into a database. WSDOT currently reviews as-constructed contract plans (as-built plan sheets) and uses Geographic Information Systems (GIS) to manually map and document stormwater infrastructure in the Stormwater Features Inventory Database. WSDOT continues to research automation options to import the information directly into the Stormwater Features Inventory Database.

Additionally, for stormwater treatment and/or flow control BMPs, WSDOT has implemented a web application to tie existing project tracking and management information to individual BMPs. The application tracks each facility's lifecycle through design, construction, and completion. This is a requirement for WSDOT projects and will become a useful reporting and tracking tool for treatment of highway runoff on WSDOT right-of-way.

RETROFITS

Prioritizing Retrofits

Most of WSDOT's highways and facilities were built before the federal Clean Water Act and the Washington Water Pollution Control Act were enacted. Thus, most of the existing pavement surfaces do not have facilities to control stormwater flow or treat stormwater runoff before it discharges from WSDOT's right of way. WSDOT addresses these deficiencies through retrofits and uses a qualitative and quantitative prioritization process detailed in WSDOT's Stormwater Retrofit Management Plan, available here:

www.wsdot.wa.gov/sites/default/files/2018/04/23/StormW-Retrofit-ManagementPlan030918.pdf.

Tracking Retrofits

The permit requires highway projects in the Puget Sound basin to meet more stringent project-triggered retrofit requirements than other regions of the state. For projects in the Puget Sound basin meeting the project-triggered retrofit requirement, for which retrofitting all existing impervious surfaces is deemed infeasible, the permit requires WSDOT to report the cost information used to make that determination. This cost equates to the amount of money WSDOT must spend on retrofits within the project limits or transfer to fund stand-alone stormwater retrofit projects (or a combination of both). No new projects fit this requirement during this reporting period.

WSDOT is required to report the number of stand-alone retrofits constructed. During this reporting period, three stand-alone retrofits were constructed. WSDOT is also required to report the number of acres of existing impervious surface retrofitted or reverted to pervious surface through retrofits, as well as where and how much retrofitting took place. This information appears in Table 1 on the next page.

Table 1. *Acres of Existing Impervious Surface Retrofitted or Reverted to Pervious*

State Route	Region	Project Name	Existing Impervious Surface Retrofitted or Reverted to Pervious (acres)	Reason for Retrofit[1]
008/507	Olympic	SR 8 and SR 507 - Thurston County Stormwater Retrofit	5.57	Stand-alone
116	Olympic	SR 116/Kilisut Harbor - Remove Fish Barrier	1.00	Opportunity-based
101	Olympic	US 101/Coffee Creek - Remove Fish Barrier	1.28	Project-driven
14	Southwest	SR 14/Wind River Rd - Intersection Improvements	.546	Opportunity-based
432	Southwest	SR 432/SR 411 Interchange Improvements	0.29	Opportunity-based
524	Northwest	SR 524 - Yew Way Railroad Crossing Improvements	0.06	Opportunity-based
090	Northwest	I-90 - Raging River Br to Bandera Vic Stormwater Retrofit	10.98	Stand-alone
005	Northwest	I-5 - Lake Samish Vic Stormwater Retrofit	2.00	Stand-alone
090	Northwest	I-90/Two Way Transit/HOV Operations - Stage 3	2.05	Opportunity-based
090	Eastern	I-90/Medical Lake Interchange - Reconstruction	0.69	Opportunity-based
090	Eastern	I-90/Barker Rd Interchange Improvement	1.22	Opportunity-based

1. Project-driven retrofits occur when a highway project exceeds the thresholds that trigger specific stormwater management requirements as defined in the HRM.
Opportunity-based retrofits occur when new improvement or preservation projects elect to add retrofits of existing pervious surfaces following guidelines in the HRM.
Standalone stormwater retrofits occur when projects are initiated to address stormwater treatment and/or flow control at a prioritized location defined by WSDOT's stormwater needs prioritization process.

STORMWATER SYSTEM MAPPING

Complete System Mapping

WSDOT is required to map 79.5 centerline miles of highway each year. During this reporting period, WSDOT was unable to fully comply with this requirement due to the impacts created by the COVID-19 pandemic, and a G20 was submitted to Ecology in April 2021. At the end of this mapping cycle (April 5, 2021) WSDOT was only able to complete 72% of its required inventory miles (57.5 of 79.5). WSDOT anticipates being back on schedule to meet the pace mapping requirement in the following permit cycle, dependent on COVID-19 restrictions.

Mapping Methods

To map the stormwater system, WSDOT uses office and field-based methods. In the office, WSDOT continues to research and map the information on as-built plan sheets. WSDOT staff use GIS to place the as-built plan sheet images where they belong on a map, then create points, lines, and polygons to represent stormwater infrastructure such as discharge points and outfalls, pipes, drainage inlets, BMPs, and ditches.

In the field, WSDOT crews use Global Positioning System (GPS) units to locate and document stormwater conveyance infrastructure and attributes. In areas where no, or minimal, infrastructure information exists, WSDOT locates and maps the infrastructure and documents all attribute information. In areas where a base level of information exists from in-office mapping efforts, field crews locate and update or confirm the information based on field observations.

Figure 5. A member of WSDOT's field inventory crew documents stormwater infrastructure.

Drainage Area Mapping

WSDOT is required to develop a process and an implementation plan to map drainage areas associated with known discharge points and outfalls owned or operated by WSDOT by April 5, 2022. Currently, site specific mapping of drainage areas is done as project needs arise. First, stormwater conveyance systems are defined through our ongoing MS4 mapping program. Then, high resolution aerial imagery and elevation data are used to estimate drainage breaks between systems. WSDOT is researching options to use GIS to automate the process and obtain more accurate results through processing geometric networks and elevation models.

GIS Layer Updates

The permit requires WSDOT to report on the GIS data layers that were updated over the reporting period, which are:

- Artificial discharge points
- Artificial path
- Debris racks
- Discharge points
- Drainage inlets
- Energy dissipaters
- Flow restrictors
- Pipe ends
- Pipes
- Ditches
- Roadside slopes
- Concrete barriers
- Curbs
- Stormwater ponds
- Stormwater vaults

ILLICIT DISCHARGE DETECTION AND ELIMINATION

Illicit Discharge Detection and Elimination Program

WSDOT's Illicit Discharge Detection and Elimination (IDDE) Program identifies and resolves illicit discharges and illegal connections that could adversely affect our stormwater system or property. WSDOT contacts emergency responders when coming upon a potentially hazardous or unknown pollutant.

As required by the permit, WSDOT's IDDE Program trains staff who, as part of their normal job responsibilities, may come into contact with or observe an illicit discharge or illegal connection to WSDOT's municipal separate storm sewer system or property, to recognize and report illicit discharges and potential illegal connections. During this reporting period, nine WSDOT staff completed training through the eLearning IDDE program.

New Reported Illicit Discharges and Illegal Connections

WSDOT tracks all issues statewide and seeks remediation when necessary. WSDOT discovered 52 illicit discharges and five illegal connections during this reporting period, all of which were resolved. WSDOT also tracked 249 traffic related spills that were addressed on WSDOT highways. 62 of these spills required G3 notification to Ecology. Appendix 3 contains a table describing the discharges and connections, actions taken to eliminate them, and the status of the issues. All items included in Appendix 3 are uploaded to Ecology's Water Quality Web Portal as required by the permit.

ROAD AND FACILITY MAINTENANCE AND OPERATIONS

Facility Stormwater Pollution Prevention Plans

WSDOT implements stormwater pollution prevention plans (SWPPPs) at each of the maintenance facilities covered by the permit. The SWPPPs identify operational and structural BMPs and include spill prevention and response plans specific to each facility. The permit requires WSDOT to perform site inspections twice a year to ensure SWPPP implementation and to evaluate the effectiveness of the plans. In this reporting period, WSDOT conducted SWPPP site inspections twice at all applicable facilities.

Training

WSDOT held two training courses on stormwater-related maintenance activities during this reporting period. In all, 112 maintenance staff were trained on topics including:

- Stormwater Pollution Prevention Plans
- Overview of the Endangered Species Act Regional Road Maintenance Program
- Understanding when and how to use BMPs
- Stormwater BMP maintenance
- Compliance monitoring and reporting requirements
- BMPs for emergency and road maintenance activities
- Field exercises installing erosion control BMPs
- Spill response

TREATMENT AND FLOW CONTROL BMP MAINTENANCE

WSDOT completed 2,842 permanent stormwater BMP inspections in this reporting period. This represents 99 percent of planned BMP inspections and exceeds the 95 percent permit requirement. WSDOT is also required to correct stormwater BMP maintenance deficiencies within one year of identification for BMPs requiring typical maintenance and within two years of identification for BMPs requiring non-typical maintenance costing less than $25,000 unless there are circumstances beyond WSDOT's control. WSDOT corrected 100 percent of typical and non-typical maintenance deficiencies identified through triggering records and inspections for BMPs.

As explained in the 2020 Stormwater Report, during the previous reporting period, COVID-19 restrictions beyond WSDOT's control prevented the completion of all required maintenance. WSDOT also completed maintenance on the BMPs impacted by COVID-19 over the course of this reporting period.

The permit requires WSDOT to prioritize BMPs that need non-typical repairs costing more than $25,000 and BMPs originally built without access roads. Prioritization is based on the amount of time needed to complete repairs, cost, and available funding. Table 2 on the next page lists the number of BMPs that need non-typical repairs and documents corrections made during this reporting period.

Table 2. *Permanent BMPs Requiring Additional Funding to Correct and Corrections Made.*

Northwest	5		
Southwest	3		1

CATCH BASIN MAINTENANCE

WSDOT inspected 27,817 catch basins. This represents 98 percent of planned inspections and exceeds the 95 percent permit requirement. The permit also requires WSDOT to correct 95 percent of deficiencies noted during inspections within six months of identification and 98 percent within a year unless there are circumstances beyond WSDOT's control. During this reporting period, WSDOT corrected 98 percent of catch basin deficiencies within six months and 100 percent of deficiencies within one year.

As explained in the 2020 Stormwater Report, during the previous reporting period, COVID-19 restrictions beyond WSDOT's control prevented the completion of the required corrections by the end of the reporting period. WSDOT addressed this backlog of catch basin deficiencies by starting a new maintenance schedule for this reporting period. This approach resolved deficiencies as catch basins were inspected and cleaned and prevented unnecessary duplicate inspections during the reporting period.

Figure 6. A southwest region pond after sediment removal during phase 2 of the project. Phase 1 and 2 focused on sediment removal. Phase 3 involved retrofitting a berm to divide the pond into 2 cells to help with future maintenance needs and BMP performance.

Reduced Inspection Frequency

The permit allows WSDOT to reduce the inspection frequency of catch basins based on maintenance records of double the length of time of the proposed inspection frequency. After evaluating catch basin inspection records from 2016-2019, 5,210 catch basins were identified as meeting the criteria for a reduced inspection frequency of every two years and removed from the 2020-2021 inspection cycle. This criteria included four consecutive years of records identifying that a catch basin had not exceeded WSDOT maintenance standards, had not been cleaned, needed no future cleaning, and had a sump less than 50% full. Inspection updates for these 5,210 catch basins will be provided in the 2022 Stormwater Report.

FERRY TERMINAL MAINTENANCE AND OPERATIONS

Terminal Stormwater Pollution Prevention Plans

Similar to maintenance facility SWPPPs, Washington State Ferries (WSF) implements a SWPPP at each ferry terminal. WSF uses most of the BMPs identified in the SWPPP as standard procedures, regardless of whether a terminal is covered by the permit. Each terminal keeps a copy of the SWPPP on site and maintains a formal inspection log. To ensure the SWPPP is implemented properly, the permit requires WSF to inspect terminal sites with SWPPPs twice a year. During this reporting period, WSF completed 100 percent of planned inspections, exceeding the 95 percent permit requirement.

Training

WSF uses a programmatic staff training approach, allowing them to meet the operational demands of nearly 450 scheduled daily sailings and staff schedules. As an example of the programmatic training approach, when a stormwater issue is noted during the monthly stormwater inspections, a corrective action is documented in the inspection log and discussed with the terminal supervisor. The inspector or the supervisor then informally trains terminal staff to resolve and prevent the issue.

In addition to the programmatic training approach, 74 new employees assigned to work at WSF terminals received stormwater training during their orientation. No terminal supervisors received stormwater training during this reporting period.

STORMWATER MONITORING AND EFFECTIVENESS STUDIES

WSDOT has one annual report for NPDES studies that covers permit related monitoring activities over water year 2021 (October 1, 2020-September 30, 2021). The report is submitted to Ecology by October 31st each year and is made available here:

www.wsdot.wa.gov/environment/technical/disciplines/water-erosion/reports-research.

New Highway BMP Effectiveness Studies

WSDOT planned and constructed two sites for the new highway BMP study that will test the effectiveness of existing swales that are older than their expected life spans. As of the end of this reporting period, WSDOT was working with Ecology to publish the Quality Assurance Project Plans (QAPP) and installing the monitoring equipment.

New BMP Effectiveness Studies at Maintenance Facilities

WSDOT constructed the two new compost amended bioswale (CAB) BMP effectiveness study sites in maintenance facilities in Tumwater and Spokane. As of the end of this reporting period, WSDOT was working with Ecology to publish the QAPP and installing the monitoring equipment.

Figure 7. WSDOT monitoring staff working at the compost amended biofiltration swale at the Geiger Maintenance Facility.

EDUCATION AND PUBLIC INVOLVEMENT

In addition to being a permit requirement, WSDOT considers education and public involvement good practice. WSDOT encourages continuous and meaningful public involvement through public meetings regarding project-specific environmental review documentation and alternatives for managing stormwater. WSDOT also encourages the public to comment on its Roadside Vegetation Management and Stormwater Management Program plans. Further, WSDOT's Adopt-a-Highway and Commute Trip Reduction programs help educate and involve the public in pollutant source reduction.

Adopt-a-Highway

WSDOT's Adopt-a-Highway program gives organizations, groups, and businesses the opportunity to help keep stormwater clean by picking up the litter along highways. WSDOT collects and disposes of most of the bags filled by volunteer groups. During this reporting period, 235 volunteer groups reported 4,382 hours and picked up 4,743 bags of litter.

Businesses that sponsor sections of highway hire contractors to pick up and dispose of litter. During this reporting period, contractors hired by 939 sponsor groups picked up 7,872 bags of litter.

Commute Trip Reduction

WSDOT works with local governments and employers at over 1,000 worksites to implement Commute Trip Reduction techniques. These include subsidies for public transit fares and carpooling, flexible work schedules, and telework opportunities. With WSDOT's technical support and help from the online tools available at rideshareonline.com, between 2007 and 2020, employees reduced their vehicle miles traveled by 30%. In addition, commuters saved $30 million in fuel expenses. Removing vehicles from the roadways and reducing emissions that enter the atmosphere improves water quality by decreasing the amount of pollutants deposited on the roadway and entering stormwater systems.

Commute Trip Reduction data is collected on a two-year calendar cycle. Compared to the 2007-08 cycle, during the 2019-20 cycle:

- Participating commuters reduced their rate of driving alone to work by almost 49 percent.
- Commuters left about 63,500 vehicles at home every day, using alternatives instead.
- These avoided vehicle trips saved over 9 million gallons of fuel and reduced annual greenhouse gas emissions by 180,000 metric tons.

The COVID-19 pandemic disrupted CTR surveying during the 2019-20 survey cycle. Efforts are underway to help sustain the increase in telework attributable to requiring eligible employees to work remotely during the pandemic. However, there is still an expectation that the CTR results will not maintain the gains shown during this cycle.

INTERNET SITE

WSDOT shares stormwater-related information with the public on its website. During this reporting period, WSDOT continued work on the technical guidance and resources on its water quality website. WSDOT also posted documents on its website including the 2020 Stormwater Report, Stormwater Monitoring Reports, and Stormwater Management Program Plan.

Recent reports and other stormwater-related information can be found at www.wsdot.wa.gov/environment/technical/disciplines/water-erosion/reports-research. Additional WSDOT research is available at www.wsdot.wa.gov/Research/default.htm, however, no new stormwater research was added during the reporting period. WSDOT is currently researching the "Evaluation of Biofiltration Swale Media Mixes for Maximizing Phosphorous Removal" at an estimated cost of $180,000.

KNOWLEDGE AND TECHNOLOGY TRANSFER

WSDOT maintains communication and coordinates with local, state, and national programs to share resources, promote and conduct stormwater research, and stay up to date on stormwater research developments and innovations. In addition to sharing information and knowledge with others, WSDOT greatly benefits from the information shared during events and from participating in advisory groups, committees, and partnerships, including:

- Permit coordination and implementation:
  - Phase I Permit Coordinators
  - Phase II NPDES Permit Coordinators
  - Central Sound Phase II Group
  - South Sound Phase II Group
  - Stormwater Technical Advisory Committee
  - Regional Operations and Maintenance Program
  - Street Maintenance Solids Meetings

- State and Regional Committees and Advisory Groups:
  - American Public Works Association Stormwater Managers Committee
  - Stormwater Technical Resource Center Advisory Committee
  - Ecology's Technology Assessment Protocol (TAPE) Stakeholder Advisory Group
  - American Society of Civil Engineers Water Resources Committee
  - Puget Sound Clean Cars Stormwater Partnership
  - Don't Drip and Drive Program
  - Deschutes Watershed Council
  - Clarks Creek Advisory Group
  - Stormwater Work Group State Agency Caucus
  - Interagency Project Team

- National Committees and Advisory Groups:
  - American Association of State Highway and Transportation Officials, Committee on Environment and Sustainability
  - Transportation Research Board annual meetings
  - Transportation Research Board Committees on Hydrology and Hydraulics, Stormwater and Landscape and Environmental Design
  - National Cooperative Highway Research Program
  - TransNow

Table 3. *TMDL Implementation Summary Table*

TMDL Name	WSDOT's Required Actions	Implementation Deadlines	Status of Compliance
Deschutes River, Percival Creek, and Budd Inlet Tributaries TMDL (Temperature, Fecal Coliform, Dissolved Oxygen, pH, Fine Sediment)	With NPDES Phase II areas WSDOT will implement permit obligations that address the TMDL-listed pollutants and participate in adaptive management as needed.	On-going	IDDE reported on SR I-5 near milepost 105.25: 1/20/2021 a citizen reported trash alongside the roadway in vegetation. Trash accumulation will be picked up routinely.
Hangman Creek TMDL (Fecal Coliform, Temperature, TSS/Turbidity)	Prepare addendum to the initial inventory findings report. Include updates on potential TMDL concerns, and follow-up actions taken and/or notification to others where a concern has been identified but occurred outside WSDOT's right-of-way and control.	Submit 6 months after initial inventory findings report	Summary of Inventory Findings Reports were submitted to Ecology on 2/8/13 and 2/28/14 (summarizing findings from 2012 and 2013 field work, respectively). An Addendum was submitted to Ecology on 8/29/14.
	If stormwater discharges that transport bacteria over natural background levels to listed receiving waters are found from sources within WSDOT's right-of-way and control, WSDOT will apply BMPs from their SWMPP or perform remediation to correct bacteria discharges. For run-on sources of bacteria identified by WSDOT that are from outside of WSDOT's right-of-way, WSDOT will notify Ecology and work cooperatively with Ecology, the local jurisdiction, and other parties involved for their resolution.	As needed	Contact WSDOT's TMDL Lead for copies of the Hangman Creek TMDL Summary of Inventory Findings Reports (2/8/13 and 2/28/14) and Addendum (8/29/14), which contain details on TMDL concerns found and follow-up actions taken and/or notification to others where we identified a concern outside WSDOT's right-of-way. No new sources have been identified.
	To address TSS/turbidity associated with adjacent erosion (run-on) including delivery that results from farming activities, WSDOT will work cooperatively with Ecology, the local jurisdiction, and other parties involved to prevent sediment from entering area waterways. At a minimum, WSDOT will: 1.) spend one day annually performing a highway evaluation with Ecology regional staff to document up to 15 erosion problem sites, 2.) Collaborate with Ecology on developing a map of problem sites, 3.) Refer up to three priority sites annually to Ecology for follow-up, 4.) Adaptively manage with Ecology as needed.	On-going	WSDOT and Ecology staff completed the annual highway evaluation to identify erosion problem sites on 4/6/21. Ecology added potential problem sites identified to their non-point source mapping tool. WSDOT referred four priority erosion problem sites to Ecology on 5/26/21.

TMDL Implementation Summary Table

TMDL Name	WSDOT's Required Actions	Implementation Deadlines	Status of Compliance
Issaquah Creek Basin TMDL (Fecal Coliform)	If stormwater discharges that transport bacteria over natural background levels to listed receiving waters are found from sources within WSDOT's right-of-way and control, WSDOT will apply BMPs from their SWMPP or perform remediation to correct bacteria discharges. For run-on sources of bacteria identified by WSDOT that are from outside of WSDOT's right-of-way, WSDOT will notify Ecology and work cooperatively with Ecology, the local jurisdiction, and other parties involved for their resolution.	As needed	Contact WSDOT's TMDL Lead for copies of the Issaquah Creek TMDL Summary of Inventory Findings Report (3/28/12) and Addendum (9/28/12), which contain details on TMDL concerns found and follow-up actions taken and/or notification to others where we identified a concern outside WSDOT's right-of-way and control. Three separate turbid IDDE's (8/7, 11/3, 11/17/2020) were reported on SR 90 between mileposts 15- 17 and site corrections were made.
Little Bear Creek TMDL (Fecal Coliform)	If stormwater discharges that transport bacteria over natural background levels to listed receiving waters are found from sources within WSDOT's right-of-way and control, WSDOT will apply BMPs from their SWMPP or perform remediation to correct bacteria discharges. For run-on sources of bacteria identified by WSDOT that are from outside of WSDOT's right-of-way, WSDOT will notify Ecology and work cooperatively with Ecology, the local jurisdiction, and other parties involved for their resolution.	As needed	Contact WSDOT's TMDL Lead for copies of the Little Bear Creek TMDL Summary of Inventory Findings Report (3/28/12) and Addendum (9/28/12), which contain details on TMDL concerns found and follow-up actions taken and/or notification to others where we identified a concern outside WSDOT's right-of-way and control. No new sources have been identified.
Nisqually River Tributaries TMDL (Fecal Coliform and Dissolved Oxygen)	Provide replacement bags at pet waste station on the dike at McAllister Creek or close access to the dike.	As needed	Replacement bags provided as needed.
	Participate in adaptive management meetings.	As needed	Not applicable during the reporting period.

TMDL Name	WSDOT's Required Actions	Implementation Deadlines	Status of Compliance
North Fork Palouse River TMDL (Dissolved Oxygen, pH)	If stormwater discharges that transport nitrogen over natural background levels to listed receiving waters are found from sources within WSDOT's right-of-way and control, WSDOT will apply BMPs from their SWMP or perform remediation to correct nitrogen discharges.	As needed	No new sources have been identified.
	WSDOT will implement their IDDE program	On-going	No IDDE events were reported.
	WSDOT will minimize the potential nitrogen impacts from hydro-seed and chemical treatments within the TMDL boundary.	On-going	Potential nitrogen impacts from hydro-seeding and chemical treatments are minimal due to the small amount of large construction projects in the North Fork Palouse watershed. Furthermore, it is standard practice to use compost and/or slow-release organic fertilizer in this watershed for various reasons, such as native seed requiring less nitrogen. When feasible, drill seeding is used instead of hydro-seeding.
	To address nitrogen delivery associated with adjacent erosion (run-on) including delivery that results from farming activities, WSDOT will work cooperatively with Ecology, the local jurisdiction, and other parties involved to prevent sediment from entering area waterways. At a minimum, WSDOT will: 1.) spend one day annually performing a highway evaluation with Ecology regional staff to document up to 15 erosion problem sites, 2.) Collaborate with Ecology on developing a map of the problem sites, 3.) Refer up to three priority sites annually to Ecology for follow-up, 4.) Adaptively manage with Ecology as needed.	On-going	WSDOT and Ecology staff completed the annual highway evaluation to identify erosion problem sites on 4/6/21. Ecology added potential problem sites identified to their non-point source mapping tool. WSDOT referred four priority erosion problem sites to Ecology on 5/26/21.

TMDL Implementation Summary Table

TMDL Name	WSDOT's Required Actions	Implementation Deadlines	Status of Compliance
Oakland Bay, Hammersley Inlet, and Selected Tributaries TMDL (Fecal Coliform)	Work with Ecology, Squaxin Island Tribe, and Mason County to determine potential sources of fecal coliform within WSDOT's right-of-way and control on a limited number of high priority Highway[3] stormwater discharge locations to Oakland Bay.[1]	On-going	Not applicable during the reporting period.
	Inventory highway discharge locations, implement pollutant source identification, and identification of illicit sources of bacteria to WSDOT's stormwater conveyance system within the TMDL boundary. Refer to Appendix 3 fof the permit for specific details on prioritization and geographic scope of inventory efforts.	Complete by December 2015	Discharge inventory completed on 1/6/15.
	Prepare inventory findings report.	Submit by December 2015	Summary of Inventory Findings Report was submitted to Ecology on 12/28/15.
	Prepare addendum to the initial inventory findings report. Include updates on potential TMDL concerns, and follow-up actions taken and/or notification to others where a concern has been identified but occurred outside WSDOT's right-of-way and control.	Submit 6 months after initial inventory findings report	Addendum was submitted to Ecology on 6/23/16.
	If stormwater discharges that transport bacteria over natural background levels to listed receiving waters are found from sources within WSDOT's right-of-way and control, WSDOT will apply BMPs from their SWMPP or perform remediation to correct bacteria discharges. For run-on sources of bacteria identified by WSDOT that are from outside of WSDOT's right-of-way, WSDOT will notify Ecology and work cooperatively with Ecology, the local jurisdiction, and other parties involved for their resolution.	As needed	Contact WSDOT's TMDL Lead for copies of the Oakland Bay TMDL Summary of Inventory Findings Report (12/28/15) and Addendum (6/23/16), which contain details on TMDL concerns found and follow-up actions taken and/or notification to others where we identified a concern outside WSDOT's right-of-way and control. No new sources have been identified.

TMDL Name	WSDOT's Required Actions	Implementation Deadlines	Status of Compliance
Palouse River Watershed TMDL (Fecal Coliform)	Implement fecal coliform programmatic approach[2] within the TMDL boundary. These efforts will focus identification of illicit sources of bacteria and sediment discharge to WSDOT's stormwater conveyance system. Refer to Appendix 3 of the permit for specific details on prioritization and geographic scope of inventory efforts.	Complete by March 2015	Discharge inventory completed in June 2014.
	Prepare inventory findings report.	Submit by March 2015	Summary of Inventory Findings Report was submitted to Ecology on 1/5/15.
	Prepare addendum to the initial inventory findings report. Include updates on potential TMDL concerns, and follow-up actions taken and/or notification to others where a concerns has been identified but occurred outside WSDOT's right-of-way and control.	Submit 6 months after initial inventory findings report	Addendum was submitted to Ecology on 7/21/15.
	If stormwater discharges that transport bacteria over natural background levels to listed receiving waters are found from sources within WSDOT's right-of-way and control, WSDOT will apply BMPs from their SWMPP or perform remediation to correct bacteria discharges. For run-on sources of bacteria identified by WSDOT that are from outside of WSDOT's right-of-way, WSDOT will notify Ecology and work cooperatively with Ecology, the local jurisdiction, and other parties involved for their resolution.	As needed	Contact WSDOT's TMDL Lead for copies of the Palouse River TMDL Summary of Inventory Findings Report (1/5/15) and Addendum (7/21/15), which contain details on TMDL concerns found and follow-up actions taken and/or notification to others where we identified a concern outside WSDOT's right-of-way and control. No new sources have been identified.
Samish Bay Watershed TMDL (Fecal Coliform)	Participate in TMDL adaptive management process.	On-going	Not applicable during the reporting period.

TMDL Implementation Summary Table

TMDL Name	WSDOT's Required Actions	Implementation Deadlines	Status of Compliance
South Fork Palouse River TMDL (Fecal Coliform)	Prepare addendum to the initial inventory findings report. Include updates on potential TMDL concerns, and follow-up actions taken and/or notification to others where a concern has been identified but occurred outside WSDOT's right-of-way and control.	Submit 6 months after initial inventory findings report	Summary of Inventory Findings Report submitted to Ecology on 1/15/14. Addendum submitted to Ecology on 7/15/14 to provide an update on identified issues.
	If stormwater discharges that transport bacteria over natural background levels to listed receiving waters are found from sources within WSDOT's right-of-way and control, WSDOT will apply BMPs from their SWMPP or perform remediation to correct bacteria discharges. For run-on sources of bacteria identified by WSDOT that are from outside of WSDOT's right-of-way, WSDOT will notify Ecology and work cooperatively with Ecology, the local jurisdiction, and other parties involved for their resolution.	As needed	Contact WSDOT's TMDL Lead for copies of the South Fork Palouse River TMDL Summary of Inventory Findings Report (1/15/14) and Addendum (7/15/14), which contain details on TMDL concerns found and follow-up actions taken and/or notification to others where we identified a concern outside WSDOT's right-of-way and control. No new sources have been identified.
	Annually inspect under the Highway 195 bridge in Colfax and taken any necessary action to prevent pigeons from roosting there.	Perform inspection annually; Initiate action to prevent pigeon roosting within 90 days of annual inspection	Annual inspection completed 4/15/21. A small amount of guano was observed along with one nest and two pigeons. Pictures were submitted to Ecology on 4/20/21.
	Implement programmatic approach at Highway 195 stormwater discharge locations and stormwater conveyance ditches discharging into Dry Fork Creek south of Pullman, WA.	Complete by March 2015	Discharge inventory completed in May 2014. Findings included in the Addendum, submitted to Ecology on 7/15/14.

TMDL Name	WSDOT's Required Actions	Implementation Deadlines	Status of Compliance
South Prairie Creek Watershed TMDL (Fecal Coliform and Temperature)	If stormwater discharges that transport bacteria over natural background levels to listed receiving waters are found from sources within WSDOT's right-of-way and control, WSDOT will apply BMPs from their SWMPP or perform remediation to correct bacteria discharges. For run-on sources of bacteria identified by WSDOT that are from outside of WSDOT's right-of-way, WSDOT will notify Ecology and work cooperatively with Ecology, the local jurisdiction, and other parties involved for their resolution.	As needed	No new sources have been identified.
	Participate in annual adaptive management meetings.	As needed	Not applicable during the reporting period.
Spokane River Watershed TMDL (Dissolved Oxygen)	Prepare addendum to the initial inventory findings report. Include updates on potential TMDL concerns, and follow-up actions taken and/or notification to others where a concern has been identified but occurred outside WSDOT's right-of-way and control.	Submit 6 months after initial inventory findings report	Summary of Inventory Findings Report submitted to Ecology on 10/15/13. Addendum submitted to Ecology on 4/15/14 to provide an update on identified issues.
	If stormwater discharges that transport phosphorus and ammonia over natural background levels to listed receiving waters are found from sources within WSDOT's right-of-way and control, WSDOT will apply BMPs from their SWMPP or perform remediation to correct bacteria discharges. For run-on sources of phosphorus and ammonia identified by WSDOT that are from outside of WSDOT's right-of-way, WSDOT will notify Ecology and work cooperatively with Ecology, the local jurisdiction, and other parties involved for their resolution.	As needed	Contact WSDOT's TMDL Lead for copies of the Spokane River Watershed TMDL Summary of Inventory Findings Report (10/15/13) and Addendum (4/15/14), which contain details on TMDL concerns found and follow-up actions taken and/or notification to others where we identified a concern outside WSDOT's right-of-way and control. No new sources have been identified.

TMDL Implementation Summary Table

TMDL Name	WSDOT's Required Actions	Implementation Deadlines	Status of Compliance
Stillaguamish River Watershed TMDL (Fecal Coliform, Dissolved Oxygen, pH, Mercury, Arsenic and Temperature)	If stormwater discharges that transport bacteria over natural background levels to listed receiving waters are found from sources within WSDOT's right-of-way and control, WSDOT will apply BMPs from their SWMPP or perform remediation to correct bacteria discharges. For run-on sources of bacteria identified by WSDOT that are from outside of WSDOT's right-of-way, WSDOT will notify Ecology and work cooperatively with Ecology, the local jurisdiction, and other parties involved for their resolution.	As needed	Contact WSDOT's TMDL Lead for copies of the Stillaguamish River TMDL Summary of Inventory Findings Report (12/28/12) and Addendum (5/29/13), which contain details on TMDL concerns found and follow-up actions taken and/or notification to others where we identified a concern outside WSDOT's right-of-way and control. An IDDE was reported 3/25/2021: On SR 9 near milepost 31.8 sediment track out is being managed from a sand and gravel pit.
	Provide replacement bags and maintain educational signage at pest waste management stations at I-5 rest areas.	As needed	Replacement bags provided as needed.
Swamp Creek Basin TMDL (Fecal Coliform)	If stormwater discharges that transport bacteria over natural background levels to listed receiving waters are found from sources within WSDOT's right-of-way and control, WSDOT will apply BMPs from their SWMPP or perform remediation to correct bacteria discharges. For run-on sources of bacteria identified by WSDOT that are from outside of WSDOT's right-of-way, WSDOT will notify Ecology and work cooperatively with Ecology, the local jurisdiction, and other parties involved for their resolution.	As needed	Contact WSDOT's TMDL Lead for copies of the Swamp Creek TMDL Summary of Inventory Findings Report (3/28/12) and Addendum (9/28/12), which contain details on TMDL concerns found and follow-up actions taken and/or notification to others where we identified a concern outside WSDOT's right-of-way and control. An IDDE was reported on 12/22/2020: On SR I-5 near milepost 181.5 a storm event led to a construction project discharging turbid water at several locations to Scriber Creek and site corrections were made.
Teanaway River TMDL (Temperature)	Maintain roads and roadside stormwater conveyance ditches to prevent entry of sediment into area waterways.	On-going	On-going

TMDL Name	WSDOT's Required Actions	Implementation Deadlines	Status of Compliance
Totten, Eld and Skookum Inlets Tributaries TMDL (Fecal Coliform and Temperature)	If stormwater discharges that transport bacteria over natural background levels to listed receiving waters are found from sources within WSDOT's right-of-way and control, WSDOT will apply BMPs from their SWMPP or perform remediation to correct bacteria discharges. For run-on sources of bacteria identified by WSDOT that are from outside of WSDOT's right-of-way, WSDOT will notify Ecology and work cooperatively with Ecology, the local jurisdiction, and other parties involved for their resolution.	As needed	Summary of Inventory Findings Report submitted to Ecology on 6/4/13. Addendum submitted to Ecology on 12/4/13 to provide an update on identified issues. Contact WSDOT's TMDL Lead for copies of the Summary of Inventory Findings Report and Addendum, which contains details on TMDL concerns found and follow-up actions taken and/or notification to others where we identified a concern outside WSDOT's right-of-way and control. No new sources have been identified.
Tucannon River Watershed TMDL (Temperature)	Maintain roads and roadside stormwater conveyance ditches to prevent entry of sediment into area waterways.[3]	On-going	On-going
Upper Yakima River Watershed TMDL (Suspended Sediment, and Organochlorine Pesticide)	Maintain roads and roadside stormwater conveyance ditches to prevent sediment from entering area waterways.[3]	On-going	On-going
Walla Walla River Watershed TMDL (Fecal Coliform, PCBs, Chlorinated Pesticide, Temperature, pH and Dissolved Oxygen)	The US 12 project will re-route 97 percent of the highway's traffic volume to the plateau located well above the Walla Walla River.	In progress	Phase 7 was funded and remains in design with construction scheduled to complete in 2023.
	Where feasible, WSDOT will implement infiltration and/or dispersion to address the pollutants covered under this TMDL.	On-going	On-going
	WSDOT will follow the current Integrated Roadside Vegetation Management Plan (South Central Region, Area 4) within the Walla Walla TMDL boundary.	On-going	On-going

TMDL Implementation Summary Table

TMDL Name	WSDOT's Required Actions	Implementation Deadlines	Status of Compliance
Bear-Evans TMDL (Fecal Coliform, Dissolved Oxygen, and Temperature) **Clarks Creek TMDL (Dissolved Oxygen, Sediment)** **Green River TMDL (Temperature)** **Henderson Inlet Watershed TMDL (Fecal Coliform)** **Liberty Bay Watershed TMDL (Fecal Coliform)** **Newaukum Creek TMDL (Temperature)** **Puyallup River Watershed TMDL (Fecal Coliform)** **Salmon Creek Watershed TMDL (Temperature)** **Sinclair and Dyes Inlet TMDL (Fecal Coliform)** **Snoqualmie River TMDL (Temperature)** **Upper Naches River and Cowiche Creek TMDL (Temperature)** **Whatcom, Squalicum and Padden Creeks TMDL (Temperature)**	Implement WSDOT's NPDES municipal permit obligations that address the TMDL-listed pollutants.	On-going	On-going

1. This work may include but is not limited to, site visits, data review, and collaborative problem solving. If sources are identified within WSDOT's control, WSDOT will develop a plan and initiate efforts to apply best management practices from their SWMPP or perform remediation to correct the situations.
2. For information regarding WSDOT's programmatic approach, please refer to Appendix 3 of the permit.
3. WSDOT implements the Regional Road Maintenance ESA Program (http://www.wsdot.wa.gov/Maintenance/Roadside/ESA.htm) covering routine maintenance activities related to aspects of WSDOT's stormwater facilities and stream crossings.

Table 4. *Stormwater BMPs Built Statewide During the 2021 Reporting Period*

State Route	Region	In Permit Area	In TMDL Area included in WSDOT's permit	Project Name	Infiltration[1]	Dispersion[2]	Biofiltration[3]	Wet Pool[4]	Total
008/507	Olympic	No	SR 008 Yes SR 507 No	SR 8 and SR 507 - Thurston County Stormwater Retrofit			16		16
116	Olympic	No	No	SR 116/Kilisut Harbor - Remove Fish Barrier			1		1
101	Olympic	No	Yes	US 101/Coffee Creek - Remove Fish Barrier	1		1		2
014	Southwest	No	No	SR 14/Wind River Rd - Intersection Improvements				3	3
432	Southwest	Yes	No	SR 432/SR 411 Interchange Improvements			2		2
524	Northwest	Yes	Yes	SR 524 - Yew Way Railroad Crossing Improvements			3		3
090	Northwest	Yes	Yes	I-90 - Raging River Br to Bandera Vic Stormwater Retrofit			11		11
005	Northwest	No	Yes	I-5 - Lake Samish Vic Stormwater Retrofit			6		6
090	Northwest	Yes	No	I-90/Two Way Transit/HOV Operations - Stage 3				1	1
395	Eastern	No	Yes	US 395 - NSC - Columbia to Freya		2	1		3
090	Eastern	No	Yes	I-90/Medical Lake Interchange - Reconstruction			16		16
090	Eastern	Yes	Yes	I-90/Barker Rd Interchange Improvement			8		8
				Total	**1**	**2**	**65**	**4**	**72**

1. Infiltration includes: Infiltration Trench, Infiltration Pond, Infiltration Swale, Infiltration Vault, and Drywell.
2. Dispersion includes: Natural Dispersion, and Engineered Dispersion.
3. Biofiltration includes: Biofiltration Swale, Wet Biofiltration Swale, Bioinfiltration Pond, Vegetated Filter Strip, Compost Amended Vegetated Filter Strip, and Media Filter Drain.
4. Wet Pool includes: Constructed Stormwater Treatment Wetland - Detention Pond, Combined Stormwater Treatment Wetland/Detention Pond, Constructed Stormwater Treatment Wetland, Combined Wet/Detention Pond, and Detention Pond.

Detailed IDDE Issues Table — Appendix 3

Table 5. *Summary of IDDE Issues and Remediation Activities*

Date	Type of Discharge	State Route	Milepost	Discovery	Pollutant	Action Taken	G3 Notification to Ecology	Status
7/1/2020	Discharge/Traffic Spill	9	55.89	WSDOT	Diesel	Cleaned	No	Resolved
7/7/2020	Discharge/Traffic Spill	90	22.5	TMS	Diesel	Cleaned	No	Resolved
7/7/2020	Discharge/Traffic Spill	5	25.7	WSP	Diesel		No	Resolved
7/8/2020	Discharge/Traffic Spill	520	4.1	King County Metro	Coolant	Cleaned	No	Resolved
7/9/2020	Discharge/Traffic Spill	9	38	Citizen	Diesel	Cleaned	No	Resolved
7/9/2020	Illicit Discharge	5	175.6	Ecology	Turbid Water	Cleaned	Yes	Resolved
7/10/2020	Discharge/Traffic Spill	405	6.5	WSDOT	Diesel	Cleaned	No	Resolved
7/10/2020	Discharge/Traffic Spill	16	7.8	WSP	Fuel	Cleaned	No	Resolved
7/10/2020	Illicit Discharge	5	177.9	Skansa Construction	Turbid Water	Cleaned	Yes	Resolved
7/11/2020	Discharge/Traffic Spill	405	2.29	WSP	Coolant	Cleaned	No	Resolved
7/11/2020	Discharge/Traffic Spill	12	73.9	WSP	Fuel	Cleaned	No	Resolved
7/12/2020	Discharge/Traffic Spill	520	0.6	WSP	Vehicle Fluids	Cleaned	No	Resolved
7/13/2020	Discharge/Traffic Spill	405	18.01	TMS	Oil	Cleaned	No	Resolved
7/13/2020	Discharge/Traffic Spill	405	25.68	TMS	Fuel		No	Resolved
7/14/2020	Discharge/Traffic Spill	11	2.84	TMS	Oil	Cleaned	No	Resolved
7/15/2020	Discharge/Traffic Spill	90	11.54	WSDOT	Diesel	Cleaned	No	Resolved
7/16/2020	Discharge/Traffic Spill	5	15	WSDOT	Diesel	Cleaned	No	Resolved
7/17/2020	Discharge/Traffic Spill	97	18.5	WSP	Diesel	Cleaned	No	Resolved
7/18/2020	Discharge/Traffic Spill	508	2.4	WSP	Oil	Cleaned	No	Resolved
7/21/2020	Discharge/Traffic Spill	14	25	WSP	Adhesive Vinyl	Cleaned	No	Resolved
7/22/2020	Discharge/Traffic Spill	160	0	Kitsap 911	Sewage	Cleaned	No	Resolved
7/27/2020	Discharge/Traffic Spill	5	254.8	Sanitary Service Co.	Coolant	Cleaned	No	Resolved
7/28/2020	Discharge/Traffic Spill	90	9.9	WSP	Coolant	Cleaned	No	Resolved
7/30/2020	Discharge/Traffic Spill	104	30.14	WSDOT	Oil	Cleaned	No	Resolved
7/30/2020	Discharge/Traffic Spill	20	34.74	Citizen	Hydraulic Fluid	Cleaned	No	Resolved
7/30/2020	Discharge/Traffic Spill	97	153	WSP	Diesel		No	Resolved

Detailed IDDE Issues Table

Date	Type of Discharge	State Route	Milepost	Discovery	Pollutant	Action Taken	G3 Notification to Ecology	Status
8/2/2020	Discharge/Traffic Spill	221	0	WSP	Diesel	Cleaned	No	Resolved
8/4/2020	Discharge/Traffic Spill	18	20.34	WSP	Vehicle Fluids	Cleaned	No	Resolved
8/4/2020	Illicit Discharge	5	144	Ecology	Turbid Water	Cleaned	Yes	Resolved
8/6/2020	Discharge/Traffic Spill	539	6	WSP	Diesel	Cleaned	No	Resolved
8/6/2020	Illicit Discharge	410	22.27	King County	Paint		No	Resolved
8/7/2020	Illicit Discharge	90	15	City of Issaquah	Turbid Water		No	Resolved
8/9/2020	Discharge/Traffic Spill	5	254	TMS	Fuel	Cleaned	No	Resolved
8/12/2020	Illicit Discharge	90	27.3	Citizen	Turbid Water	Cleaned	Yes	Resolved
8/16/2020	Discharge/Traffic Spill	900	6	WSDOT	Fuel	Cleaned	No	Resolved
8/16/2020	Discharge/Traffic Spill	5	168.25	WSP	Hydraulic Fluid	Cleaned	No	Resolved
8/17/2020	Discharge/Traffic Spill	90	11.6	WSP	Vehicle Fluids	Cleaned	Yes	Resolved
8/17/2020	Discharge/Traffic Spill	500	8.75	WSP	Fuel	Cleaned	No	Resolved
8/17/2020	Discharge/Traffic Spill	522	14.09	TMS	Oil	Cleaned	No	Resolved
8/17/2020	Discharge/Traffic Spill	5	237	WSP	Oil	Cleaned	No	Resolved
8/19/2020	Illicit Discharge	90	12	Ecology	Turbid Water	Cleaned	Yes	Resolved
8/20/2020	Discharge/Traffic Spill	18	6.6	Ecology	Diesel	Cleaned	No	Resolved
8/23/2020	Discharge/Traffic Spill	5	48	WSP	Fuel	Cleaned	Yes	Resolved
8/25/2020	Discharge/Traffic Spill	90	47	WSP	Diesel	Cleaned	No	Resolved
8/25/2020	Discharge/Traffic Spill	9	75.94	WSP	Fuel	Cleaned	No	Resolved
8/26/2020	Discharge/Traffic Spill	16	0	WSP	Fuel	Cleaned	No	Resolved
8/26/2020	Discharge/Traffic Spill	90	51	WSP	Fuel	Cleaned	No	Resolved
8/27/2020	Discharge/Traffic Spill	405	16.85	PACCAR	Diesel	Cleaned	No	Resolved
8/28/2020	Discharge/Traffic Spill	5	212.6	WSDOT	Diesel	Cleaned	No	Resolved
8/31/2020	Discharge/Traffic Spill	202	13	WSP	Oil	Cleaned	No	Resolved
9/2/2020	Discharge/Traffic Spill	129	34	WSP	Oil	Cleaned	No	Resolved
9/4/2020	Discharge/Traffic Spill	167	8.35	WSP	Oil	Cleaned	No	Resolved

Detailed IDDE Issues Table

Date	Type of Discharge	State Route	Milepost	Discovery	Pollutant	Action Taken	G3 Notification to Ecology	Status
9/6/2020	Discharge/Traffic Spill	97	6	WSP	Fuel	Cleaned	No	Resolved
9/6/2020	Discharge/Traffic Spill	90	21	WSP	Sulfur	Cleaned	No	Resolved
9/8/2020	Discharge/Traffic Spill	542	28.4	Citizen	Turbid Water		No	Resolved
9/8/2020	Discharge/Traffic Spill	5	256.7	WSP	Diesel	Cleaned	No	Resolved
9/11/2020	Discharge/Traffic Spill	90	8.7	King County Metro	Coolant	Cleaned	No	Resolved
9/11/2020	Discharge/Traffic Spill	5	129.59	TMS	Oil	Cleaned	No	Resolved
9/13/2020	Discharge/Traffic Spill	512	4.86	WSP	Fuel	Cleaned	No	Resolved
9/14/2020	Discharge/Traffic Spill	544	6.8	TMS	Oil	Cleaned	No	Resolved
9/14/2020	Discharge/Traffic Spill	5	72	WSP	Diesel	Cleaned	No	Resolved
9/15/2020	Illicit Discharge	520	10.7	Kamins Construction	Concrete	Cleaned	Yes	Resolved
9/15/2020	Illicit Discharge	5	179.9	Skansa Construction	Turbid Water	Cleaned	Yes	Resolved
9/16/2020	Discharge/Traffic Spill	305	3.1	WSDOT	Hydraulic Fluid	Cleaned	No	Resolved
9/17/2020	Discharge/Traffic Spill	10	104	WSP	Asphalt	Cleaned	No	Resolved
9/18/2020	Discharge/Traffic Spill	8	6.03	WSP	Diesel	Cleaned	No	Resolved
9/23/2020	Discharge/Traffic Spill	5	167.01	TMS	Diesel	Cleaned	No	Resolved
9/23/2020	Discharge/Traffic Spill	5	186.48	TMS	Oil	Cleaned	No	Resolved
9/24/2020	Discharge/Traffic Spill	5	95.23	WSP	Fuel	Cleaned	No	Resolved
9/24/2020	Illicit Discharge	520	8.1	Ecology	Turbid Water		Yes	Resolved
9/26/2020	Discharge/Traffic Spill	5	95	Ecology	Diesel	Cleaned	Yes	Resolved
9/26/2020	Discharge/Traffic Spill	12	357.6	City of Walla Walla	Fertilizer	Cleaned	No	Resolved
9/28/2020	Discharge/Traffic Spill	112	22	WSP	Oil	Cleaned	No	Resolved
9/29/2020	Illicit Discharge	5	175.5	O'neill Service Group	Turbid Water	Cleaned	Yes	Resolved
9/30/2020	Discharge/Traffic Spill	5	19.1	WSP	Diesel	Cleaned	Yes	Resolved
9/30/2020	Discharge/Traffic Spill	305	2.4	WSDOT	Hydraulic Fluid	Cleaned	No	Resolved
9/30/2020	Discharge/Traffic Spill	516	16	Citizen	Oil		No	Resolved
10/1/2020	Discharge/Traffic Spill	405	4.17	Ecology	Wine	Cleaned	Yes	Resolved

Detailed IDDE Issues Table

Date	Type of Discharge	State Route	Milepost	Discovery	Pollutant	Action Taken	G3 Notification to Ecology	Status
10/1/2020	Discharge/Traffic Spill	2	35	TMS	Vehicle Fluids	Cleaned	No	Resolved
10/4/2020	Discharge/Traffic Spill	99	28.9	King County Metro	Coolant	Cleaned	No	Resolved
10/6/2020	Discharge/Traffic Spill	167	17.95	Puget Sound Fire	Diesel	Cleaned	Yes	Resolved
10/8/2020	Discharge/Traffic Spill	534	5.08	WSP	Hydraulic Fluid	Cleaned	No	Resolved
10/10/2020	Discharge/Traffic Spill	4	40	WSP	Oil		No	Resolved
10/11/2020	Discharge/Traffic Spill	409	1.7	WSP	Oil	Cleaned	No	Resolved
10/12/2020	Discharge/Traffic Spill	12	16.38	WSP	Oil	Cleaned	No	Resolved
10/12/2020	Discharge/Traffic Spill	18	27.7	Premium Env Services	Diesel	Cleaned	No	Resolved
10/13/2020	Discharge/Traffic Spill	2	276.22	WSDOT	Diesel	Cleaned	No	Resolved
10/14/2020	Discharge/Traffic Spill	203	22.3	WSP	Diesel	Cleaned	No	Resolved
10/14/2020	Discharge/Traffic Spill	405	26.62	TMS	Vehicle Fluids	Cleaned	No	Resolved
10/14/2020	Discharge/Traffic Spill	5	200.2	TMS	Diesel	Cleaned	No	Resolved
10/16/2020	Discharge/Traffic Spill	101	308.17	WSP	Vehicle Fluids	Cleaned	No	Resolved
10/17/2020	Illicit Discharge	500	5.4	WSDOT	Hydraulic Fluid	Cleaned	No	Resolved
10/19/2020	Illicit Discharge	90	13	Atkinson Construction	Concrete	Cleaned	Yes	Resolved
10/21/2020	Discharge/Traffic Spill	395	63	WSP	Vehicle Fluids	Cleaned	No	Resolved
10/21/2020	Discharge/Traffic Spill	20	410	WSP	Diesel	Cleaned	No	Resolved
10/22/2020	Discharge/Traffic Spill	90	36	WSP	Diesel		No	Resolved
10/23/2020	Discharge/Traffic Spill	18	20.34	WSDOT	Oil		No	Resolved
10/23/2020	Discharge/Traffic Spill	2	76	WSP	Fuel	Cleaned	No	Resolved
10/28/2020	Discharge/Traffic Spill	117	0.29	WSP	Paint	Cleaned	No	Resolved
10/28/2020	Discharge/Traffic Spill	18	2.8	Ecology	Diesel	Cleaned	No	Resolved
10/28/2020	Discharge/Traffic Spill	512	9.5	WSDOT	Pesticide	Cleaned	No	Resolved
10/29/2020	Discharge/Traffic Spill	542	33.4	WSP	Coolant	Cleaned	No	Resolved
11/2/2020	Discharge/Traffic Spill	90	277	Fire Dept	Vehicle Fluids	Cleaned	No	Resolved
11/3/2020	Illicit Discharge	405	7.35	Construction Company	Turbid Water		Yes	Resolved

Detailed IDDE Issues Table

Date	Type of Discharge	State Route	Milepost	Discovery	Pollutant	Action Taken	G3 Notification to Ecology	Status
11/3/2020	Illicit Discharge	90	15.3	Ecology	Turbid Water	Cleaned	Yes	Resolved
11/4/2020	Discharge/Traffic Spill	405	11.05	WSP	Diesel	Cleaned	No	Resolved
11/5/2020	Discharge/Traffic Spill	518	1.37	King County Metro	Oil	Cleaned	No	Resolved
11/5/2020	Discharge/Traffic Spill	503	42	WSP	Vehicle Fluids	Cleaned	No	Resolved
11/5/2020	Discharge/Traffic Spill	5	164.5	WSDOT	Fuel	Cleaned	No	Resolved
11/5/2020	Illicit Discharge	5	146.1	Kiewit Costruction	Turbid Water	Cleaned	Yes	Resolved
11/7/2020	Discharge/Traffic Spill	97	135.4	WSP	Fuel	Cleaned	No	Resolved
11/9/2020	Discharge/Traffic Spill	5	54.5	WSDOT	Diesel	Cleaned	Yes	Resolved
11/9/2020	Illicit Discharge	5	178.3	Skansa Construction	Turbid Water		Yes	Resolved
11/10/2020	Discharge/Traffic Spill	195	16.99	WSP	Diesel	Cleaned	No	Resolved
11/12/2020	Discharge/Traffic Spill	2	98	WSDOT	Fuel	Cleaned	No	Resolved
11/12/2020	Discharge/Traffic Spill	90	270	Tow Company	Oil	Cleaned	No	Resolved
11/15/2020	Discharge/Traffic Spill	5	164	WSP	Oil	Cleaned	No	Resolved
11/17/2020	Discharge/Traffic Spill	104	15	CCTV	Fuel	Cleaned	Yes	Resolved
11/17/2020	Illicit Discharge	90	17.15	O'neill Service Group	Turbid Water	Cleaned	Yes	Resolved
11/18/2020	Discharge/Traffic Spill	99	44.25	TMS	Chlorine	Cleaned	Yes	Resolved
11/18/2020	Discharge/Traffic Spill	405	10.65	Citizen	Diesel	Cleaned	No	Resolved
11/19/2020	Illicit Discharge	520	10.75	City of Redmond	Turbid Water	Cleaned	Yes	Resolved
11/20/2020	Discharge/Traffic Spill	101	90	WSP	Oil	Cleaned	No	Resolved
11/21/2020	Discharge/Traffic Spill	534	2.3	WSP	Oil	Cleaned	No	Resolved
11/23/2020	Discharge/Traffic Spill	20	12.5	City of Port Townsend	Diesel	Cleaned	Yes	Resolved
11/25/2020	Illicit Discharge	520	11.65	O'neill Service Group	Turbid Water	Cleaned	Yes	Resolved
11/27/2020	Discharge/Traffic Spill	82	33	WSP	Fuel		No	Resolved
11/28/2020	Discharge/Traffic Spill	104	8.87	WSP	Diesel	Cleaned	No	Resolved
11/29/2020	Discharge/Traffic Spill	10	94	WSP	Oil	Cleaned	No	Resolved
11/30/2020	Discharge/Traffic Spill	195	69.94	WSP	Fuel	Cleaned	No	Resolved

Detailed IDDE Issues Table

Date	Type of Discharge	State Route	Milepost	Discovery	Pollutant	Action Taken	G3 Notification to Ecology	Status
12/2/2020	Illicit Discharge	5	178.15	Citizen	Turbid Water	Cleaned	Yes	Resolved
12/4/2020	Discharge/Traffic Spill	2	139.63	WSP	Diesel		No	Resolved
12/5/2020	Discharge/Traffic Spill	526	1.39	Everett Fire	Diesel	Cleaned	No	Resolved
12/8/2020	Discharge/Traffic Spill	243	2.5	WSP	Fuel	Cleaned	No	Resolved
12/9/2020	Discharge/Traffic Spill	5	230	TMS	Liquid Nitrogen	Cleaned	Yes	Resolved
12/10/2020	Illicit Discharge	167	12.53	Ecology	Turbid Water	Cleaned	No	Resolved
12/13/2020	Discharge/Traffic Spill	174	30	WSP	Fuel		No	Resolved
12/13/2020	Discharge/Traffic Spill	5	76	WSP	Diesel	Cleaned	No	Resolved
12/13/2020	Discharge/Traffic Spill	5	172.77	TMS	Vehicle Fluids	Cleaned	No	Resolved
12/15/2020	Discharge/Traffic Spill	5	73	WSP	Diesel		No	Resolved
12/16/2020	Discharge/Traffic Spill	5	115	WSP	Oil	Cleaned	No	Resolved
12/17/2020	Discharge/Traffic Spill	243	20	WSDOT	Diesel	Cleaned	No	Resolved
12/17/2020	Discharge/Traffic Spill	5	205	WSDOT	Diesel	Cleaned	No	Resolved
12/21/2020	Discharge/Traffic Spill	243	5	WSP	Diesel	Cleaned	No	Resolved
12/21/2020	Illicit Discharge	520	12.34	O'neill Service Group	Turbid Water	Cleaned	Yes	Resolved
12/22/2020	Illicit Discharge	520	8.9	Kiewit Costruction	Turbid Water	Cleaned	Yes	Resolved
12/22/2020	Illicit Discharge	405	12.1	O'neill Service Group	Turbid Water	Cleaned	Yes	Resolved
12/22/2020	Illicit Discharge	5	178.5	Skansa Construction	Turbid Water	Cleaned	Yes	Resolved
12/22/2020	Illicit Discharge	5	181.5	City of Lynnwood	Turbid Water		Yes	Resolved
12/23/2020	Discharge/Traffic Spill	405	10.79	WSP	Novacool		No	Resolved
12/23/2020	Illicit Discharge	5	176.58	Skansa Construction	Turbid Water		Yes	Resolved
12/24/2020	Discharge/Traffic Spill	17	51	WSP	Vehicle Fluids	Cleaned	No	Resolved
12/24/2020	Discharge/Traffic Spill	5	119	WSP	Diesel	Cleaned	No	Resolved
12/28/2020	Discharge/Traffic Spill	165	3.8	Citizen	Chemicals		No	Resolved
12/29/2020	Discharge/Traffic Spill	705	0.72	WSP	Fuel	Cleaned	No	Resolved
12/31/2020	Discharge/Traffic Spill	205	27.2	WSP	Vehicle Fluids	Cleaned	No	Resolved

Detailed IDDE Issues Table

Date	Type of Discharge	State Route	Milepost	Discovery	Pollutant	Action Taken	G3 Notification to Ecology	Status
1/1/2021	Discharge/Traffic Spill	20	10	WSP	Fuel	Cleaned	No	Resolved
1/4/2021	Discharge/Traffic Spill	162	6.56	WSP	Oil	Cleaned	No	Resolved
1/4/2021	Discharge/Traffic Spill	97	29.6	WSP	Fuel	Cleaned	No	Resolved
1/4/2021	Discharge/Traffic Spill	20	204.3	WSDOT	Fuel	Cleaned	No	Resolved
1/4/2021	Illicit Discharge	405	12.5	O'neill Service Group	Turbid Water		Yes	Resolved
1/5/2021	Discharge/Traffic Spill	405	13.5	WSP	Vehicle Fluids	Cleaned	Yes	Resolved
1/5/2021	Illicit Connection	112	15.5	Citizen	Turbid Water		No	Resolved
1/6/2021	Discharge/Traffic Spill	6	17	WSP	Oil	Cleaned	Yes	Resolved
1/6/2021	Illicit Discharge	520	11.75	O'neill Service Group	Turbid Water	Cleaned	Yes	Resolved
1/6/2021	Illicit Discharge	405	12	O'neill Service Group	Turbid Water	Cleaned	Yes	Resolved
1/6/2021	Illicit Discharge	99	17.3	City of SeaTac	Turbid Water	Cleaned	Yes	Resolved
1/8/2021	Illicit Connection	520	8.4	O'neill Service Group	Turbid Water	Cleaned	No	Resolved
1/11/2021	Discharge/Traffic Spill	526	0.64	City of Mukilteo	Diesel	Cleaned	No	Resolved
1/12/2021	Discharge/Traffic Spill	5	134.01	WSP	Diesel		No	Resolved
1/13/2021	Discharge/Traffic Spill	90	39.6	WSP	Diesel	Cleaned	Yes	Resolved
1/14/2021	Discharge/Traffic Spill	12	18.11	WSP	Vehicle Fluids	Cleaned	No	Resolved
1/15/2021	Illicit Discharge	520	11.75	O'neill Service Group	Turbid Water	Cleaned	Yes	Resolved
1/16/2021	Discharge/Traffic Spill	507	25.01	WSP	Manure	Cleaned	No	Resolved
1/16/2021	Discharge/Traffic Spill	90	34.7	Citizen	Manure	Cleaned	No	Resolved
1/19/2021	Discharge/Traffic Spill	5	171.25	TMS	Fuel	Cleaned	No	Resolved
1/20/2021	Discharge/Traffic Spill	5	105.25	Citizen	Debris		No	Resolved
1/21/2021	Discharge/Traffic Spill	18	6.05	King County	Fuel	Cleaned	No	Resolved
1/27/2021	Discharge/Traffic Spill	90	38.41	Citizen	Diesel	Cleaned	No	Resolved
1/28/2021	Discharge/Traffic Spill	90	74	WSDOT	Diesel		No	Resolved
1/28/2021	Illicit Discharge	520	10.55	O'neill Service Group	Turbid Water	Cleaned	No	Resolved
1/29/2021	Discharge/Traffic Spill	12	74.1	WSP	Vehicle Fluids	Cleaned	No	Resolved

Detailed IDDE Issues Table

Date	Type of Discharge	State Route	Milepost	Discovery	Pollutant	Action Taken	G3 Notification to Ecology	Status
1/29/2021	Discharge/Traffic Spill	5	79	WSP	Diesel	Cleaned	No	Resolved
2/1/2021	Illicit Discharge	520	10.55	O'neill Service Group	Turbid Water	Cleaned	Yes	Resolved
2/2/2021	Discharge/Traffic Spill	20	413.14	WSP	Diesel	Cleaned	No	Resolved
2/2/2021	Illicit Discharge	90	9.4	O'neill Service Group	Turbid Water	Cleaned	Yes	Resolved
2/2/2021	Illicit Discharge	90	11.8	O'neill Service Group	Turbid Water	Cleaned	Yes	Resolved
2/3/2021	Illicit Discharge	90	12.4	CESCL for Goldenwood	Turbid Water	Cleaned	Yes	Resolved
2/4/2021	Discharge/Traffic Spill	92	0	Citizen	Fuel		No	Resolved
2/4/2021	Discharge/Traffic Spill	411	3	WSP	Diesel	Cleaned	No	Resolved
2/4/2021	Illicit Discharge	20	48.12	Ecology	Sewage	Cleaned	Yes	Resolved
2/5/2021	Illicit Connection	520	10.73	WSDOT	Stormwater		No	Resolved
2/6/2021	Discharge/Traffic Spill	5	113.5	WSDOT	Sewage	Cleaned	Yes	Resolved
2/6/2021	Discharge/Traffic Spill	16	28.5	WSP	Oil		No	Resolved
2/9/2021	Discharge/Traffic Spill	17	8.8	WSP	Diesel	Cleaned	No	Resolved
2/9/2021	Illicit Discharge	534	2.1	Ecology	Turbid Water	Cleaned	No	Resolved
2/12/2021	Discharge/Traffic Spill	823	1	WSDOT	Diesel	Cleaned	No	Resolved
2/12/2021	Discharge/Traffic Spill	5	65.28	WSDOT	Vehicle Fluids	Cleaned	No	Resolved
2/15/2021	Discharge/Traffic Spill	5	106	WSDOT	Fuel	Cleaned	No	Resolved
2/15/2021	Discharge/Traffic Spill	90	228.8	WSP	Coolant	Cleaned	No	Resolved
2/16/2021	Discharge/Traffic Spill	5	32	WSP	Fuel	Cleaned	No	Resolved
2/17/2021	Discharge/Traffic Spill	405	7.45	Puget Sound Fire	Diesel	Cleaned	No	Resolved
2/18/2021	Discharge/Traffic Spill	14	12.6	WSP	Diesel	Cleaned	Yes	Resolved
2/22/2021	Discharge/Traffic Spill	5	16.8	WSP	Fuel		Yes	Resolved
2/22/2021	Discharge/Traffic Spill	9	40	WSP	Diesel		No	Resolved
2/22/2021	Discharge/Traffic Spill	5	144.6	WSP	Diesel	Cleaned	No	Resolved
2/23/2021	Illicit Discharge	5	179.9	O'neill Service Group	Turbid Water	Cleaned	Yes	Resolved
2/24/2021	Illicit Discharge	520	11.8	O'neill Service Group	Turbid Water	Cleaned	Yes	Resolved

Detailed IDDE Issues Table

Date	Type of Discharge	State Route	Milepost	Discovery	Pollutant	Action Taken	G3 Notification to Ecology	Status
2/25/2021	Discharge/Traffic Spill	202	21.83	WSDOT	Paint	Cleaned	No	Resolved
2/25/2021	Discharge/Traffic Spill	240	27	Clean Harbors	Diesel	Cleaned	No	Resolved
2/25/2021	Illicit Discharge	900	18.35	WSDOT	Turbid Water		No	Resolved
2/25/2021	Illicit Discharge	20	45.6	Citizen	Turbid Water		No	Resolved
2/26/2021	Discharge/Traffic Spill	90	47	Pro-Enviro	Diesel	Cleaned	No	Resolved
2/26/2021	Discharge/Traffic Spill	5	129	WSP	Oil	Cleaned	No	Resolved
3/1/2021	Discharge/Traffic Spill	101	206.1	Fire Dept	Diesel	Cleaned	No	Resolved
3/3/2021	Discharge/Traffic Spill	522	11.06	TMS	Diesel		No	Resolved
3/5/2021	Discharge/Traffic Spill	395	235.5	WSP	Fuel	Cleaned	No	Resolved
3/13/2021	Discharge/Traffic Spill	5	82	WSP	Fuel	Cleaned	No	Resolved
3/15/2021	Discharge/Traffic Spill	97	21.4	WSP	Fuel	Cleaned	No	Resolved
3/18/2021	Discharge/Traffic Spill	18	20.27	WSDOT	Diesel	Cleaned	No	Resolved
3/22/2021	Discharge/Traffic Spill	529	4.58	Everett PD	Vehicle Fluids	Cleaned	No	Resolved
3/23/2021	Discharge/Traffic Spill	97	25.5	WSDOT	Diesel		No	Resolved
3/23/2021	Discharge/Traffic Spill	90	63	WSP	Vehicle Fluids	Cleaned	No	Resolved
3/25/2021	Discharge/Traffic Spill	9	31.18	WSDOT	Sediment	Cleaned	No	Resolved
3/25/2021	Discharge/Traffic Spill	3	52.27	Kitsap County	Oil	Cleaned	No	Resolved
3/26/2021	Discharge/Traffic Spill	5	129.59	WSP	Fuel	Cleaned	No	Resolved
3/27/2021	Discharge/Traffic Spill	503	34.5	WSP	Fuel	Cleaned	No	Resolved
3/29/2021	Discharge/Traffic Spill	305	2.3	Lakeside Industries	Hydraulic Fluid	Cleaned	No	Resolved
3/29/2021	Illicit Connection	90	12.87	WSDOT	Stormwater		Yes	Resolved
3/30/2021	Discharge/Traffic Spill	509	2.35	WSP	Oil		No	Resolved
4/2/2021	Discharge/Traffic Spill	243	1	WSP	Fuel	Cleaned	No	Resolved
4/3/2021	Discharge/Traffic Spill	240	33	Fire Dept	Food Oil	Cleaned	No	Resolved
4/5/2021	Discharge/Traffic Spill	90	11.54	WSP	Diesel	Cleaned	No	Resolved
4/6/2021	Discharge/Traffic Spill	18	2.53	WSP	Diesel	Cleaned	No	Resolved

Detailed IDDE Issues Table

Date	Type of Discharge	State Route	Milepost	Discovery	Pollutant	Action Taken	G3 Notification to Ecology	Status
4/7/2021	Discharge/Traffic Spill	5	253.7	WSP	Diesel	Cleaned	No	Resolved
4/8/2021	Discharge/Traffic Spill	12	81	WSP	Vehicle Fluids	Cleaned	No	Resolved
4/8/2021	Illicit Discharge	520	11.3	Sound Transit	Turbid Water	Cleaned	Yes	Resolved
4/9/2021	Discharge/Traffic Spill	5	111.94	WSP	Oil	Cleaned	No	Resolved
4/9/2021	Illicit Discharge	90	9.75	Citizen	Debris		No	Resolved
4/13/2021	Illicit Discharge	305	9.75	Citizen	Turbid Water		No	Resolved
4/14/2021	Discharge/Traffic Spill	90	17.7	Eastside Fire Dept.	Diesel	Cleaned	No	Resolved
4/14/2021	Discharge/Traffic Spill	14	71	WSP	Diesel	Cleaned	No	Resolved
4/14/2021	Discharge/Traffic Spill	5	130.69	WSP	Coolant	Cleaned	No	Resolved
4/15/2021	Discharge/Traffic Spill	82	15	WSP	Vehicle Fluids	Cleaned	No	Resolved
4/16/2021	Illicit Discharge	405	13.2	City of Bellevue	Turbid Water		Yes	Resolved
4/21/2021	Discharge/Traffic Spill	702	3	WSP	Vehicle Fluids		No	Resolved
4/22/2021	Discharge/Traffic Spill	90	2.7	TMS	Fuel		No	Resolved
4/23/2021	Discharge/Traffic Spill	500	3.8	WSP	Diesel	Cleaned	No	Resolved
4/23/2021	Discharge/Traffic Spill	5	125.86	WSP	Diesel	Cleaned	No	Resolved
4/23/2021	Discharge/Traffic Spill	5	155	WSP	Oil	Cleaned	No	Resolved
4/27/2021	Illicit Discharge	90	62.97	WSDOT	Sewage	Cleaned	No	Resolved
4/28/2021	Discharge/Traffic Spill	5	122.68	CCTV	Diesel	Cleaned	No	Resolved
5/3/2021	Discharge/Traffic Spill	28	128	WSP	Fertilizer	Cleaned	No	Resolved
5/4/2021	Discharge/Traffic Spill	82	67	WSP	Magnesium Chloride	Cleaned	No	Resolved
5/5/2021	Discharge/Traffic Spill	5	232.85	Skagit County	Hydraulic Fluid	Cleaned	No	Resolved
5/6/2021	Discharge/Traffic Spill	97	19.8	WSP	Fuel	Cleaned	No	Resolved
5/6/2021	Illicit Discharge	520	10.7	Sound Transit	Turbid Water	Cleaned	Yes	Resolved
5/7/2021	Discharge/Traffic Spill	5	192.67	Everett Fire	Diesel	Cleaned	No	Resolved
5/10/2021	Discharge/Traffic Spill	90	18.08	WSP	Oil	Cleaned	No	Resolved
5/11/2021	Discharge/Traffic Spill	5	105.68	WSP	Fuel	Cleaned	Yes	Resolved

Detailed IDDE Issues Table

Date	Type of Discharge	State Route	Milepost	Discovery	Pollutant	Action Taken	G3 Notification to Ecology	Status
5/11/2021	Discharge/Traffic Spill	5	198.43	TMS	Diesel	Cleaned	No	Resolved
5/12/2021	Discharge/Traffic Spill	5	138	WSP	Vehicle Fluids		No	Resolved
5/13/2021	Discharge/Traffic Spill	5	7.48	WSP	Fuel	Cleaned	No	Resolved
5/14/2021	Illicit Discharge	14	67	City of Bingen	Concrete		Yes	Resolved
5/15/2021	Discharge/Traffic Spill	546	1.5	Citizen	Diesel		No	Resolved
5/15/2021	Discharge/Traffic Spill	532	10	TMS	Sure Klean 66	Cleaned	No	Resolved
5/19/2021	Discharge/Traffic Spill	22	22.6	WSP	Oil	Cleaned	No	Resolved
5/19/2021	Illicit Connection	5	135.25	WSDOT	Stormwater		Yes	Resolved
5/21/2021	Discharge/Traffic Spill	90	9.8	WSP	Coolant	Cleaned	No	Resolved
5/21/2021	Discharge/Traffic Spill	101	362.11	WSP	Fuel		No	Resolved
5/25/2021	Discharge/Traffic Spill	20	11	WSDOT	Paint	Cleaned	No	Resolved
5/25/2021	Discharge/Traffic Spill	90	278	WSP	Transmission Fluid	Cleaned	No	Resolved
5/26/2021	Discharge/Traffic Spill	542	54.6	Citizen	Diesel	Cleaned	No	Resolved
5/27/2021	Discharge/Traffic Spill	101	77	WSP	Oil	Cleaned	No	Resolved
5/27/2021	Illicit Discharge	203	9.44	Geoengineers	Mineral Oil	Cleaned	No	Resolved
5/28/2021	Discharge/Traffic Spill	5	2.35	CRESA	Vehicle Fluids	Cleaned	Yes	Resolved
5/28/2021	Discharge/Traffic Spill	285	0.25	Citizen	Paint	Cleaned	No	Resolved
5/29/2021	Discharge/Traffic Spill	5	162.02	TMS	Coolant	Cleaned	No	Resolved
5/29/2021	Discharge/Traffic Spill	5	165.83	TMS	Oil	Cleaned	No	Resolved
5/29/2021	Discharge/Traffic Spill	5	217	WSP	Fuel		No	Resolved
6/3/2021	Discharge/Traffic Spill	182	0	WSP	Fuel		No	Resolved
6/3/2021	Discharge/Traffic Spill	518	2.5	WSP	Coolant	Cleaned	No	Resolved
6/3/2021	Discharge/Traffic Spill	300	3.18	WSP	Oil	Cleaned	No	Resolved
6/4/2021	Discharge/Traffic Spill	97	29	WSP	Fuel		No	Resolved
6/6/2021	Discharge/Traffic Spill	14	6.2	WSP	Fuel		No	Resolved
6/9/2021	Discharge/Traffic Spill	82	43	WSP	Oil	Cleaned	No	Resolved

Detailed IDDE Issues Table

Date	Type of Discharge	State Route	Milepost	Discovery	Pollutant	Action Taken	G3 Notification to Ecology	Status
6/10/2021	Discharge/Traffic Spill	161	4.9	Citizen	Hydraulic Fluid	Cleaned	No	Resolved
6/11/2021	Discharge/Traffic Spill	167	24.42	WSP	Fuel	Cleaned	Yes	Resolved
6/11/2021	Discharge/Traffic Spill	900	16.18	Citizen	Oil	Cleaned	No	Resolved
6/11/2021	Discharge/Traffic Spill	5	164.46	TMS	Fuel	Cleaned	No	Resolved
6/17/2021	Discharge/Traffic Spill	82	36	WSP	Diesel	Cleaned	No	Resolved
6/17/2021	Discharge/Traffic Spill	5	131.83	WSP	Canola Oil	Cleaned	No	Resolved
6/18/2021	Discharge/Traffic Spill	395	78	WSP	Liquid Asphalt	Cleaned	No	Resolved
6/18/2021	Discharge/Traffic Spill	5	95.23	WSP	Fuel		No	Resolved
6/22/2021	Discharge/Traffic Spill	5	21	City of Woodland	Paint	Cleaned	No	Resolved
6/23/2021	Discharge/Traffic Spill	18	3.66	TMS	Oil		No	Resolved
6/23/2021	Discharge/Traffic Spill	5	163.95	Fire Dept	Vehicle Fluids	Cleaned	No	Resolved
6/24/2021	Discharge/Traffic Spill	520	11.05	WSDOT	Concrete	Cleaned	No	Resolved
6/24/2021	Discharge/Traffic Spill	5	232.9	WSP	Diesel	Cleaned	No	Resolved
6/25/2021	Discharge/Traffic Spill	5	123.58	Bio MT Farms	Treated Sewage	Cleaned	No	Resolved
6/26/2021	Discharge/Traffic Spill	167	11.65	WSDOT	Diesel	Cleaned	No	Resolved
6/27/2021	Discharge/Traffic Spill	500	2	WSP	Diesel	Cleaned	No	Resolved
6/28/2021	Discharge/Traffic Spill	405	13.83	Bellevue Fire	Fuel	Cleaned	No	Resolved
6/28/2021	Discharge/Traffic Spill	26	115	WSP	Oil	Cleaned	No	Resolved
6/29/2021	Discharge/Traffic Spill	82	20	WSP	Vehicle Fluids	Cleaned	No	Resolved
6/30/2021	Discharge/Traffic Spill	90	54	Citizen	Oil	Cleaned	No	Resolved