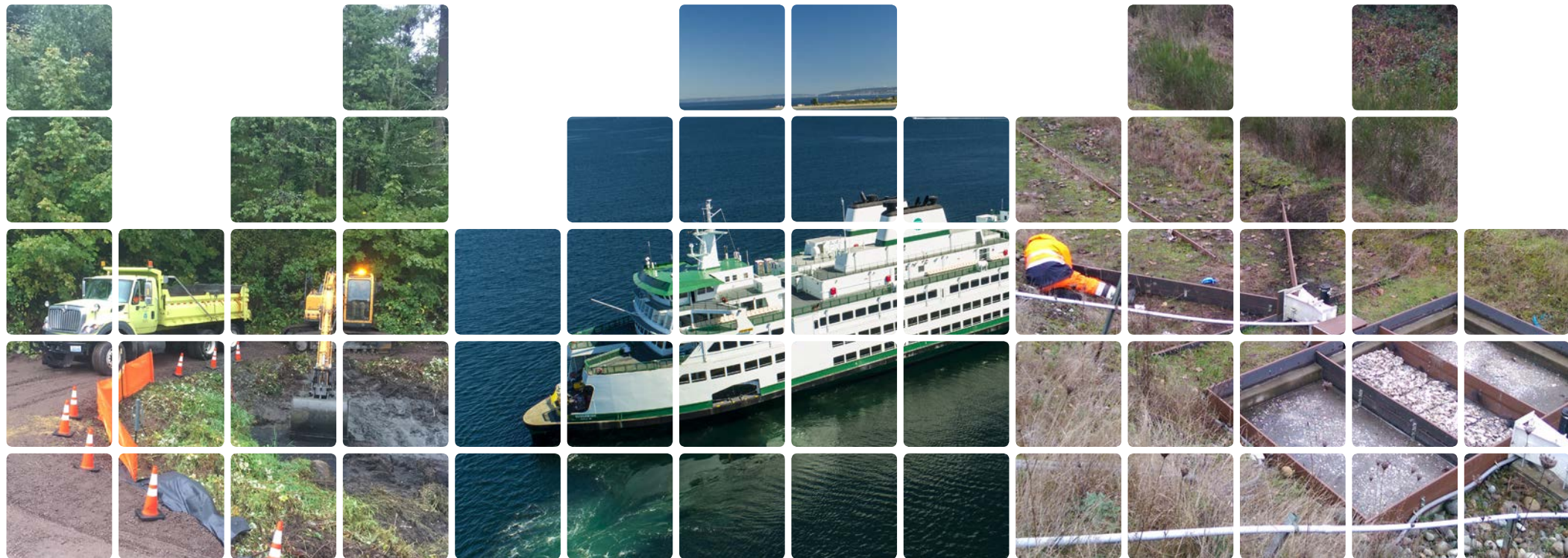


2020 STORMWATER REPORT

NPDES Municipal Stormwater Permit Annual Report for Fiscal Year 2020



Washington State
Department of Transportation

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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
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 2020 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: 2020.10.23 12:43:56 -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, vector 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.

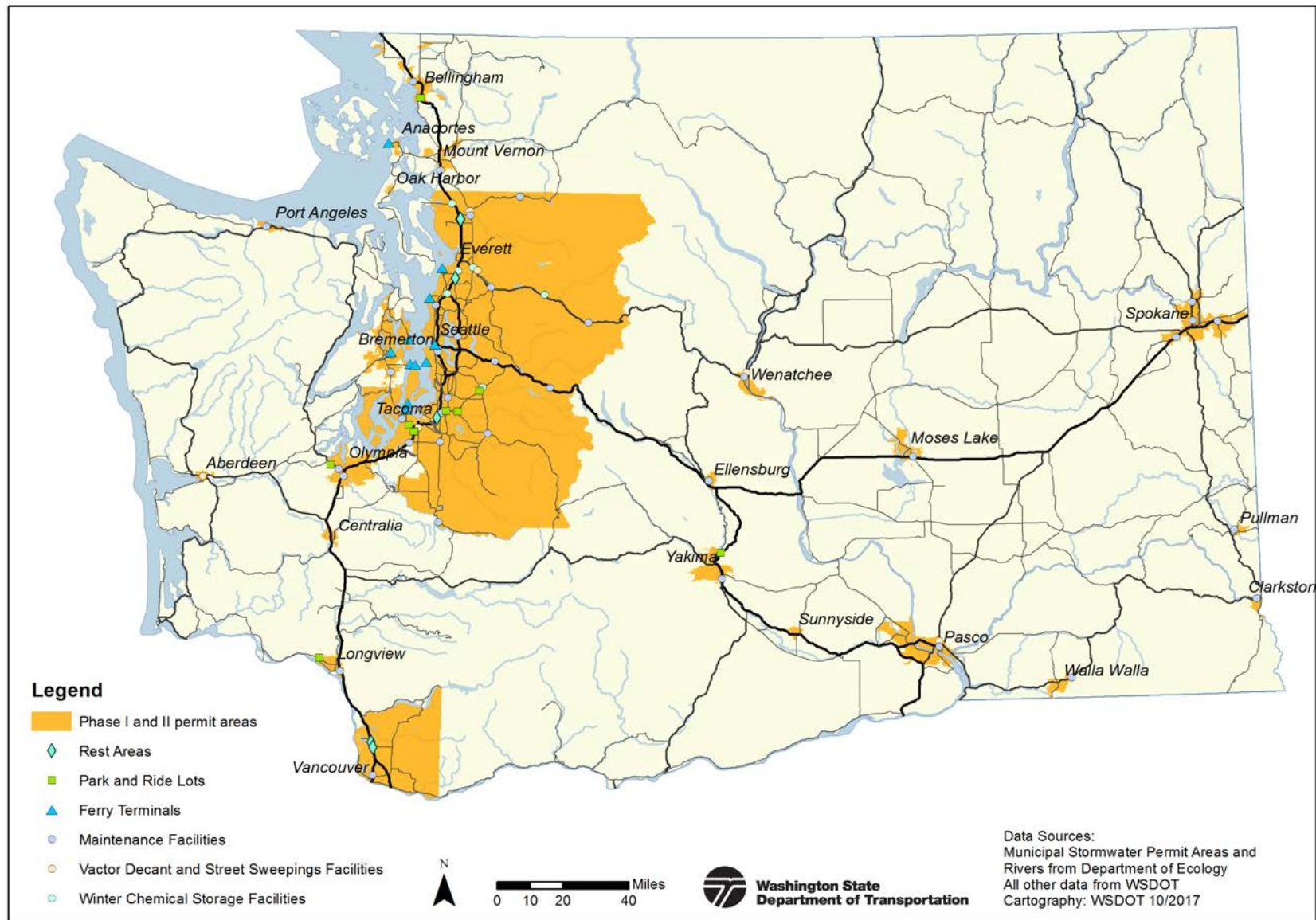


Figure 1. WSDOT facilities within Phase I and II Municipal Stormwater Permit areas.

Stormwater Program Management

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, 2019 to June 30, 2020, 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). With the reissuance of the permit in 2019, WSDOT is now required to submit a revised SWMPP to Ecology along with the annual report. More information is included in WSDOT's Stormwater Management Program Plan section on page 4 of this report.

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. If WSDOT requests funds, the Governor submits a transportation budget to the Legislature recommending funding levels and allocations.

Permit Implementation Costs

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

WSDOT also expends a portion of highway construction funds to mitigate adverse effects from stormwater runoff from new and existing impervious surfaces. During the 2020 fiscal year, WSDOT's Highway Construction Program spent about \$1.28 billion statewide.

\$1.28 Billion
spent on
highway construction projects
in fiscal year 2020.

While WSDOT's accounting systems do not track stormwater-related expenditures specifically, WSDOT has estimated these costs in the past. Agency environmental mitigation costs were estimated by determining actual mitigation costs on a subset of agency projects. These costs were summarized in "Project Environmental Mitigation Cost Study" reports in 2003, 2006, 2009, and 2013. These studies found that stormwater mitigation costs averaged between 4 and 11 percent of total project costs.

Stormwater mitigation costs vary substantially by project depending on several factors including the location of the project related to urban areas, whether it is in eastern or western Washington, cost of additional right-of-way (if needed) to accommodate stormwater management facilities, the size of the project, and its proximity to receiving water bodies. While a specific fiscal year 2020 stormwater investment level cannot be quantified, it is clear from past environmental mitigation cost studies that substantial highway construction program funding is invested in improving stormwater management.

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 37 G3 spills on WSDOT right-of-way 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. WSDOT did not need to submit any such notifications to Ecology during this reporting period.

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.

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 posts a list of summary implementation reports from its work in TMDL areas, and the associated standard operating procedures for completing the work, on WSDOT's *Water Resources and Erosion Control* website.



Figure 2. The I-5 bridge over the East Fork Lewis River is within a TMDL Alternative boundary for bacteria and temperature. Set to begin in 2022, the northbound bridge replacement project will eliminate direct stormwater discharge to the East Fork Lewis River.

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):

- South Fork Nooksack River TMDL (temperature)
- Pilchuck River (dissolved oxygen, temperature)
- Whatcom Creek (bacteria)
- Deschutes River (led by EPA to address disapproved Ecology TMDLs for temperature, fine sediment, bacteria, dissolved oxygen, pH)

Total Maximum Daily Loads

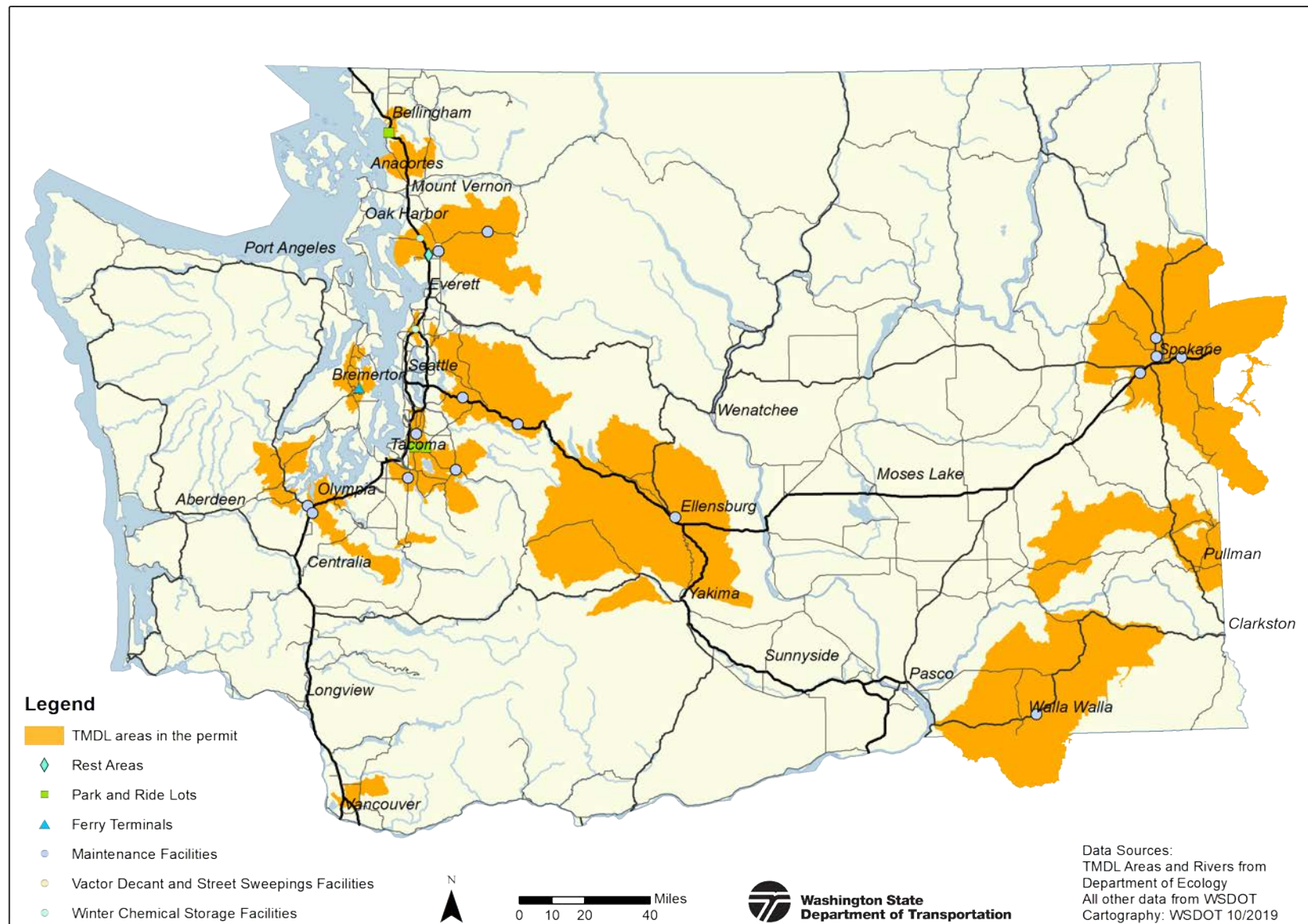


Figure 3. WSDOT facilities within TMDLs included in the permit.

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

- Burnt Bridge TMDL Alternative
- 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
- Poverty Bay Technical Committee
- Spokane Regional Conservation Partnership



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. Eight Construction Site Erosion and Sediment Control trainings were held during the reporting period.



Figure 4. Participants from WSDOT's field BMP training test check dam effectiveness.

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 2019, WSDOT assessed nine construction projects statewide.

Construction Site Stormwater Pollution Prevention

Summary and Lessons Learned from 2019 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
- 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 2019 fall assessments were sufficient construction access establishment and management, adequate soil stabilization, proper pollutant control, and BMP installation, maintenance, and removal. 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 in-person classes, training 40 WSDOT staff, 41 local agency staff, and 61 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 best management practices (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. Once this application is implemented for all WSDOT projects, it will become a useful tracking and reporting tool.

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). One project, SR 9 - SR 204 Intersection Improvements (Stage 1), transferred \$70,432 during the reporting period.

WSDOT is required to report the number of stand-alone retrofits constructed. During this reporting period, no 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.

Stormwater Infrastructure

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
510	Olympic	SR 510 - Meridian Rd Se - Roundabout And Paving	0.532	Project-driven
503	Southwest	SR 503 Improvements - Nielsen Industrial Subdivision	0.091	Project-driven
009	Northwest	SR 9 - SR 204 Intersection Improvements (Stage 1)	0.017	Project-driven
405	Northwest	I-405 - SR 167 Interchange Direct Connector Project*	10.26	Project-driven
529	Northwest	SR 529 - Steamboat Slough Mitigation Site	1.19	Opportunity-based
508	Southwest	SR 508 - S. Fork Newaukum River Bridge Replacement	0.06	Opportunity-based
005	Southwest	I-5 - I-5/Gee Creek SB SRA - Rehabilitate RV Dump Station	0.074	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.

* In the 2019 Stormwater Report, the I-405 - SR 167 Interchange Direct Connector Project incorrectly reported acres of existing impervious surface retrofitted or reverted to pervious. The correct number of acres is reported above in Table 1.

STORMWATER SYSTEM MAPPING

Complete System Mapping

WSDOT is required to map 79.5 centerline miles of highway each year. During this reporting period, WSDOT's field inventory crews completed mapping on 80.1 centerline miles.

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.

Drainage 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

Stormwater Infrastructure

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, 26 WSDOT staff completed training through the eLearning IDDE program.

New Reported Illicit Discharges and Illegal Connections

WSDOT tracks all issues statewide seeks and remediation when necessary. WSDOT discovered 27 illicit discharges and seven illegal connections during this reporting period, all of which were resolved. WSDOT also tracked 305 traffic related spills that were addressed on WSDOT highways. 37 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.



Figure 5. Oily sheens are commonly identified and resolved by WSDOT staff and emergency responders.



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, 94 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 1,885 permanent stormwater BMP inspections in this reporting period. This represents 98 percent of planned BMP inspections and exceeds the 95 percent permit requirement. WSDOT is also required to correct stormwater BMP 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.



Figure 6. A stormwater pond in WSDOT's southwest region is cleaned to keep the pond functioning as designed.

WSDOT was on track to complete maintenance on all required BMPs within the applicable time periods up until March, when COVID-19 restrictions beyond WSDOT's control prevented the completion of all required maintenance through the end of June.

As a result, 869 of 936 corrections were completed during the reporting period. WSDOT will continue correcting deficiencies as required by the permit and will address the backlog of BMPs impacted by COVID-19 over the course of the 2021 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 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.*

Region	BMPs Requiring Repairs > \$25,000	BMPs Requiring Access Road	BMPs Corrected This Reporting Period (removed from count in first two columns)
Northwest	4		
Olympic	5	4	
Southwest	4		1

CATCH BASIN MAINTENANCE

WSDOT inspected 30,510 catch basins. This represents 95 percent of planned inspections as required by the permit. The permit also requires WSDOT to correct 95 percent of deficiencies noted during inspections within 6 months and 98 percent within a year unless there are circumstances beyond WSDOT's control.

WSDOT was on track to correct deficiencies as required by the permit up until March, when COVID-19 restrictions beyond WSDOT's control prevented the completion of the required corrections by the end of the reporting period. As a result, WSDOT corrected 92 percent of the noted deficiencies within 6 months and 95 percent of deficiencies within the year.

WSDOT will address the backlog of catch basin deficiencies by starting a new maintenance schedule for the 2021 reporting period. This approach will resolve deficiencies as catch basins are inspected and cleaned while preventing unnecessary duplicate inspections during the reporting period. The permit also allows WSDOT to reduce the inspection frequency based on maintenance records of double the length of time of the proposed inspection frequency. WSDOT will review catch basin features statewide that may meet this criteria for reduced inspections.

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,

Maintenance and Operations

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, 15 new employees assigned to work at WSF terminals received stormwater training during their orientation. 42 terminal supervisors received stormwater training during this reporting period.



STORMWATER MONITORING AND EFFECTIVENESS STUDIES

The WSDOT Stormwater Monitoring program has two annual reports for NPDES studies that cover permit related monitoring activities over water year 2019 (October 1, 2018-September 30, 2019). Those reports are submitted separately to Ecology by October 31st each year and are made available here:

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

BMP Effectiveness Studies at Highway Sites

The Monitoring Program submitted a Technical Evaluation Report (TER) to Ecology during this reporting period for a vegetated filter strip (VFS) BMP highway study following criteria from Ecology's 2014 Technology Assessment Protocol – Ecology (TAPE). The BMPs studied were standard VFSs and a modified VFS that had a 3-inch compost blanket amendment that was hydroseeded with a seed mix that meets WSDOT erosion control specifications. The Monitoring Program submitted a Technical Evaluation Report (TER) to Ecology for both of these BMP types during this reporting period.

The program also collected hydrology data from roadside embankments at two sites in western Washington as part of another highway BMP study. These data will help validate an empirically optimized method for estimating saturated hydraulic conductivity (Ksat) developed by the WSDOT's Geotechnical Office. WSDOT intends to use the validated Ksat estimation method to improve future BMP designs and help evaluate the

effectiveness of currently installed VFS BMPs. Findings from this study will inform potential revisions and updates to the HRM.

New Highway BMP Effectiveness Studies

The program began site selection for new highway BMP studies that will test the effectiveness of swales that are older than their expected life spans. A previous swale study site at SR-518 was upgraded with bigger flumes and solar panels at the sample boxes for possible inclusion in this new highway BMP study. The program is currently selecting other new sites for the study and will ground truth them during rain events to ensure the swales are operating in a manner that allows scientific study.



Figure 7. WSDOT monitoring staff conduct swale maintenance year-round.

BMP Effectiveness Studies at Maintenance Facilities

The program completed site retrofits at two compost amended bioswale (CAB) sites in western Washington maintenance facilities as part of the current facilities study. Another CAB study site in Spokane was found to have unexpectedly high volume and sediment loads not known during design of the bioswale. The program is currently redesigning the site for future monitoring.



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, 1,214 volunteer groups worked 11,320 hours and picked up 8,883 bags of litter.



Businesses that sponsor sections of highway hire contractors to pick up and dispose of litter. Contractors hired by 129 sponsor groups adopted 308 sections of shoulders and medians and picked up 10,983 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 2018, employees reduced their vehicle miles traveled by almost 13%. In addition, commuters saved \$25 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- 2008 cycle, during the 2017-2018 cycle:

- Participating commuters reduced their rate of driving alone to work by almost 12 percent.
- Commuters left about 27,500 vehicles at home every day, using alternatives instead.
- Commute Trip Reduction techniques saved over 4 million gallons of fuel and reduced annual greenhouse gas emissions by 75,000 metric tons.

Education and Public Involvement

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 2019 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
 - 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 Retrofit Planning Project for Washington State Water Resource Inventory Area 9 Stakeholder Workshop
 - Stormwater Work Group State Agency Caucus
 - Oregon Stormwater Technology Testing Center
 - 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	On-going
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 postponed the annual highway evaluation to identify erosion problem sites due to COVID. Ecology is developing a mapping tool to document and track erosion problem sites identified.

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. No new sources have been identified.
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 Implementation Summary Table

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 postponed the annual highway evaluation to identify erosion problem sites due to COVID. Ecology is developing a mapping tool to document and track erosion problem sites identified.

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 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 Implementation Summary Table

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 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 3/19/20. No evidence of roosting pigeons was found on WSDOT's structure.
	Implement programmatic approach ¹ 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 Implementation Summary Table

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. IDDEs: 1.) Property owner was draining a pond into a WSDOT ditch to work on pipes in the pond. Home owner stopped pumping the pond water into the WSDOT ditch on 11/13/2019. 2.) Maintenance noticed a home owner pumping water from his property into a WSDOT ditch causing it to flood on 1/7/2020. The heavy rains and flooding around the area has stopped since and the connection has been removed. 3.) Fuel system failure in truck resulted in less than a cup of diesel being spilled. Spill was cleaned up along with soil on 6/15/2020.
	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. IDDEs: 1.) Turbid water was released when a abandoned stormwater pipe was hit during a drilling operation. The contents of the pipe were contained within the site's stormwater treatment system. Event happened on 5/30/2020.

TMDL Implementation Summary Table

TMDL Name	WSDOT's Required Actions	Implementation Deadlines	Status of Compliance
Teanaway River TMDL (Temperature)	Maintain roads and roadside stormwater conveyance ditches to prevent entry of sediment into area waterways.	On-going	On-going
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.	Dependent on funding	Phase 7 was awarded and the design builder is currently in design, with construction scheduled to begin in 2021.
	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 2020 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
195	Eastern	Yes	Yes	US 195 - Thorpe Rd Intersection Improvement			1		1
510	Olympic	Partial	Partial	SR 510 - Meridian Rd Se - Roundabout And Paving	4		4		8
508	Southwest	No	Yes	SR 508 - S. Fork Newaukum River Bridge Replacement		1	3		4
005	Southwest	Yes	No	I-5 - I-5/Gee Creek SB SRA - Rehabilitate RV Dump Station			1	1	2
014	Southwest	Yes	No	SR 14 - Access Improvements			2		2
503	Southwest	Yes	No	SR 503 - Improvements - Nielsen Industrial Subdivision	1				1
090	South Central	No	Yes	I-90 - Keechelus Dam to Stampede Pass - Add Lanes/ Build Wildlife Bridges	2	28	4		34
090	South Central	No	No	I-90 - Snowshed to Keechelus Dam Phase 1C - Replace Snowshed and Add Lanes				40	40
529	Northwest	Yes	Yes	SR 529 - Steamboat Slough Mitigation Site			2		2
009	Northwest	Yes	Partial	SR 9 - SR 204 Intersection Improvements (Stage 1)			1	1	2
405	Mega	Yes	None	I-405 - SR 167 Interchange Direct Connector Project*			8	2	10
Total					7	29	26	44	106

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.

*In the 2019 Stormwater Report, the I-405 - SR 167 Interchange Direct Connector Project incorrectly reported the number of constructed stormwater BMPs. The correct number of BMPs is reported above in Table 4.



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
7/1/2019	Discharge/Traffic Spill	27	72.59	WSP	Diesel	Cleaned	No	Resolved
7/1/2019	Discharge/Traffic Spill	302	8	WSDOT	Oil	Cleaned	No	Resolved
7/1/2019	Discharge/Traffic Spill	16	27	WSDOT	Fuel	Cleaned	No	Resolved
7/2/2019	Discharge/Traffic Spill	99	24.94	TMS	Oil		No	Resolved
7/2/2019	Discharge/Traffic Spill	5	132.4	WSP	Fuel	Cleaned	No	Resolved
7/2/2019	Discharge/Traffic Spill	5	122	WSP	Oil	Cleaned	No	Resolved
7/3/2019	Discharge/Traffic Spill	303	1.46	Citizen	Paint	Cleaned	Yes	Resolved
7/3/2019	Discharge/Traffic Spill	405	11.1	Kirkland Fire Dept.	Fuel	Cleaned	No	Resolved
7/3/2019	Discharge/Traffic Spill	405	20.66	Ecology	Diesel		No	Resolved
7/3/2019	Discharge/Traffic Spill	5	86	WSP	Oil	Cleaned	No	Resolved
7/5/2019	Discharge/Traffic Spill	101	77.5	WSP	Fuel	Cleaned	No	Resolved
7/6/2019	Discharge/Traffic Spill	92	7.26	WSP	Fuel		No	Resolved
7/8/2019	Discharge/Traffic Spill	101	344	WSP	Oil	Cleaned	No	Resolved
7/9/2019	Illicit Connection	520	8.54	WSDOT	Turbid Water			Resolved
7/10/2019	Discharge/Traffic Spill	5	133	WSP	Fuel	Cleaned	No	Resolved
7/11/2019	Discharge/Traffic Spill	16	9.79	WSDOT	Hydraulic Fluid		No	Resolved
7/11/2019	Discharge/Traffic Spill	14	5.1	Citizen	Emulsion Water Repellent	Cleaned	No	Resolved
7/12/2019	Discharge/Traffic Spill	167	24.42	King County	Oil	Cleaned	No	Resolved
7/12/2019	Discharge/Traffic Spill	5	85	WSDOT	Oil	Cleaned	No	Resolved
7/13/2019	Discharge/Traffic Spill	9	61	TMS	Oil	Cleaned	No	Resolved
7/15/2019	Discharge/Traffic Spill	90	27	WSP	Diesel	Cleaned	Yes	Resolved
7/15/2019	Discharge/Traffic Spill	90	51	WSP	Oil		No	Resolved
7/16/2019	Discharge/Traffic Spill	202	13.8	TMS	Diesel		No	Resolved
7/16/2019	Discharge/Traffic Spill	12	157	WSP	Diesel	Cleaned	No	Resolved
7/17/2019	Discharge/Traffic Spill	14	23.4	WSP	Oil	Cleaned	No	Resolved
7/18/2019	Discharge/Traffic Spill	5	162.48	TMS	Diesel	Cleaned	Yes	Resolved

Detailed IDDE Issues Table

Date	Type of Discharge	State Route	Milepost	Discovery	Pollutant	Action Taken	G3 Notification to Ecology	Status
7/20/2019	Discharge/Traffic Spill	203	14.99	Citizen	Diesel	Cleaned	No	Resolved
7/22/2019	Discharge/Traffic Spill	509	28.5	Recology	Coolant	Cleaned	No	Resolved
7/25/2019	Discharge/Traffic Spill	5	60	WSP	Fluid	Cleaned	No	Resolved
7/29/2019	Discharge/Traffic Spill	906	2	WSP	Oil		No	Resolved
7/31/2019	Discharge/Traffic Spill	5	103.98	WSP	Chicken Fat		No	Resolved
7/31/2019	Discharge/Traffic Spill	5	40.5	WSP	Oil	Cleaned	No	Resolved
8/1/2019	Illicit Discharge	5	174	Citizen	Turbid Water	Cleaned	Yes	Resolved
8/2/2019	Discharge/Traffic Spill	5	162.8	TMS	Diesel		No	Resolved
8/2/2019	Discharge/Traffic Spill	14	49.3	Contractor	Oil	Cleaned	No	Resolved
8/4/2019	Discharge/Traffic Spill	5	167	TMS	Fuel		No	Resolved
8/4/2019	Discharge/Traffic Spill	99	32.54	TMS	Oil	Cleaned	No	Resolved
8/5/2019	Discharge/Traffic Spill	5	93.43	WSP	Oil	Cleaned	No	Resolved
8/7/2019	Discharge/Traffic Spill	103	10.8	WSP	Oil	Cleaned	No	Resolved
8/9/2019	Discharge/Traffic Spill	522	16.57	TMS	Fuel	Cleaned	No	Resolved
8/9/2019	Discharge/Traffic Spill	90	294	WSP	Oil		No	Resolved
8/9/2019	Discharge/Traffic Spill	500	2.3	WSP	Oil	Cleaned	No	Resolved
8/9/2019	Discharge/Traffic Spill	167	13.8	WSDOT	Gasoline	Cleaned	No	Resolved
8/10/2019	Discharge/Traffic Spill	2	14.4	City of Monroe	Oil		Yes	Resolved
8/10/2019	Discharge/Traffic Spill	405	12.61	TMS	Fuel	Cleaned	Yes	Resolved
8/11/2019	Discharge/Traffic Spill	395	18.6	WSP	Diesel		No	Resolved
8/12/2019	Discharge/Traffic Spill	20	0	WSP	Diesel		No	Resolved
8/12/2019	Discharge/Traffic Spill	5	46	Cowlitz County	Diesel	Cleaned	No	Resolved
8/12/2019	Discharge/Traffic Spill	432	9.9	WSDOT	Oil	Cleaned	No	Resolved
8/15/2019	Discharge/Traffic Spill	705	0	WSP	Fuel	Cleaned	No	Resolved
8/15/2019	Discharge/Traffic Spill	502	1.6	WSDOT	Gasoline		Yes	Resolved
8/17/2019	Discharge/Traffic Spill	90	50	WSP	Diesel	Cleaned	No	Resolved
8/19/2019	Discharge/Traffic Spill	512	3.71	WSP	Oil	Cleaned	No	Resolved
8/21/2019	Discharge/Traffic Spill	523	2.01	Citizen	Fluid	Cleaned	No	Resolved

Detailed IDDE Issues Table

Date	Type of Discharge	State Route	Milepost	Discovery	Pollutant	Action Taken	G3 Notification to Ecology	Status
8/22/2019	Discharge/Traffic Spill	90	57	WSP	Diesel	Cleaned	No	Resolved
8/23/2019	Discharge/Traffic Spill	530	19.71	WSP	Hydraulic Fluid	Cleaned	No	Resolved
8/26/2019	Discharge/Traffic Spill	18	23	WSP	Fuel		No	Resolved
8/26/2019	Discharge/Traffic Spill	512	0	WSP	Oil	Cleaned	No	Resolved
8/27/2019	Discharge/Traffic Spill	5	260.1	Citizen	Coolant	Cleaned	No	Resolved
8/28/2019	Discharge/Traffic Spill	405	20.95	CCTV	Oil	Cleaned	No	Resolved
8/28/2019	Discharge/Traffic Spill	18	22.02	WSP	Diesel	Cleaned	No	Resolved
8/28/2019	Discharge/Traffic Spill	5	104.32	WSP	Diesel	Cleaned	No	Resolved
8/29/2019	Discharge/Traffic Spill	5	162.48	WSP	Diesel	Cleaned	No	Resolved
8/30/2019	Discharge/Traffic Spill	509	29.76	TMS	Fuel	Cleaned	Yes	Resolved
8/30/2019	Discharge/Traffic Spill	5	111.9	WSP	Oil	Cleaned	No	Resolved
8/30/2019	Discharge/Traffic Spill	90	59	WSP	Oil	Cleaned	No	Resolved
9/3/2019	Discharge/Traffic Spill	9	40	WSP	Oil	Cleaned	No	Resolved
9/3/2019	Discharge/Traffic Spill	395	79	Citizen	Fuel	Cleaned	No	Resolved
9/8/2019	Discharge/Traffic Spill	526	1.87	Everett PD	Oil	Cleaned	No	Resolved
9/11/2019	Discharge/Traffic Spill	82	83	WSP	Oil		No	Resolved
9/12/2019	Discharge/Traffic Spill	18	1.85	Valley Regional Fire	Oil		Yes	Resolved
9/13/2019	Discharge/Traffic Spill	101	192.9	WSP	Oil	Cleaned	No	Resolved
9/13/2019	Discharge/Traffic Spill	5	95.23	CCTV	Fuel	Cleaned	No	Resolved
9/14/2019	Discharge/Traffic Spill	5	102.79	WSP	Fuel		No	Resolved
9/15/2019	Discharge/Traffic Spill	500	5.4	WSP	Diesel	Cleaned	No	Resolved
9/16/2019	Discharge/Traffic Spill	3	56	WSP	Diesel	Cleaned	No	Resolved
9/16/2019	Discharge/Traffic Spill	5	36	TMS	Fluid	Cleaned	No	Resolved
9/17/2019	Discharge/Traffic Spill	5	140	WSP	Diesel	Cleaned	No	Resolved
9/17/2019	Discharge/Traffic Spill	5	54	WSP	Diesel	Cleaned	No	Resolved
9/18/2019	Discharge/Traffic Spill	9	0.96	Snohomish FD	Diesel	Cleaned	No	Resolved
9/18/2019	Illicit Discharge	405	10.65	Citizen	Concrete		Yes	Resolved
9/19/2019	Discharge/Traffic Spill	5	44	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
9/19/2019	Discharge/Traffic Spill	182	9	WSP	Oil		No	Resolved
9/20/2019	Discharge/Traffic Spill	112	14	Ecology	Oil	Cleaned	No	Resolved
9/20/2019	Discharge/Traffic Spill	395	37	WSP	Diesel	Cleaned	No	Resolved
9/23/2019	Discharge/Traffic Spill	5	170.8	TMS	Oil	Cleaned	No	Resolved
9/23/2019	Discharge/Traffic Spill	14	123.5	Citizen	Fuel	Cleaned	No	Resolved
9/23/2019	Discharge/Traffic Spill	12	138.6	WSP	Fuel	Cleaned	No	Resolved
9/25/2019	Discharge/Traffic Spill	405	28.52	Snohomish County	Diesel	Cleaned	No	Resolved
9/26/2019	Discharge/Traffic Spill	18	27.6	East Side Fire & Rescue	Unknown	Cleaned	No	Resolved
9/27/2019	Discharge/Traffic Spill	12	1.74	WSDOT	Oil	Cleaned	No	Resolved
9/28/2019	Discharge/Traffic Spill	101	334.13	WSP	Fuel	Cleaned	No	Resolved
9/30/2019	Discharge/Traffic Spill	205	29.7	WSP	Oil	Cleaned	No	Resolved
10/1/2019	Illicit Discharge	5	179.1	Contractor	Turbid Water		No	Resolved
10/3/2019	Discharge/Traffic Spill	500	8.3	Unknown	Hydraulic Fluid	Cleaned	No	Resolved
10/3/2019	Illicit Discharge	518	2.9	City of Tukwila	Turbid Water	Cleaned	Yes	Resolved
10/4/2019	Discharge/Traffic Spill	5	167.1	Social Media	Diesel		Yes	Resolved
10/4/2019	Discharge/Traffic Spill	526	1	Everett PD	Oil	Cleaned	No	Resolved
10/4/2019	Discharge/Traffic Spill	5	138	WSP	Coolant	Cleaned	No	Resolved
10/4/2019	Discharge/Traffic Spill	97	30.6	WSP	Diesel	Cleaned	No	Resolved
10/5/2019	Discharge/Traffic Spill	410	26.31	Citizen	Track out	Cleaned	No	Resolved
10/8/2019	Discharge/Traffic Spill	9	10.9	WSP	Diesel	Cleaned	No	Resolved
10/8/2019	Discharge/Traffic Spill	90	15.8	City of Bellevue	Turbid Water	Cleaned	Yes	Resolved
10/8/2019	Discharge/Traffic Spill	410	113.9	WSP	Oil	Cleaned	No	Resolved
10/8/2019	Discharge/Traffic Spill	410	14	City of Bonney Lake	Oil	Cleaned	No	Resolved
10/9/2019	Discharge/Traffic Spill	90	138	WSP	Fuel		No	Resolved
10/10/2019	Discharge/Traffic Spill	243	4.5	WSP	Road Sealant	Cleaned	No	Resolved
10/10/2019	Discharge/Traffic Spill	5	173.86	TMS	Oil	Cleaned	No	Resolved

Detailed IDDE Issues Table

Date	Type of Discharge	State Route	Milepost	Discovery	Pollutant	Action Taken	G3 Notification to Ecology	Status
10/10/2019	Discharge/Traffic Spill	5	14.2	WSP	Hydraulic Fluid	Cleaned	No	Resolved
10/11/2019	Discharge/Traffic Spill	970	1	WSP	Fuel		No	Resolved
10/12/2019	Discharge/Traffic Spill	18	26.3	WSP	Diesel		No	Resolved
10/14/2019	Discharge/Traffic Spill	167	0	Contractor	Diesel	Cleaned	No	Resolved
10/16/2019	Discharge/Traffic Spill	542	15.3	WSDOT	Sewage	Cleaned	No	Resolved
10/17/2019	Discharge/Traffic Spill	518	3.81	WSP	Oil	Cleaned	No	Resolved
10/17/2019	Discharge/Traffic Spill	405	18.14	WSP	Oil	Cleaned	No	Resolved
10/18/2019	Illicit Discharge	705	0	Contractor	Turbid Water	Cleaned	Yes	Resolved
10/18/2019	Illicit Discharge	520	8.85	Contractor	Turbid Water	Cleaned	Yes	Resolved
10/19/2019	Discharge/Traffic Spill	705	0	WSP	Fuel	Cleaned	No	Resolved
10/19/2019	Discharge/Traffic Spill	395	18	WSP	Fuel		No	Resolved
10/21/2019	Discharge/Traffic Spill	90	21	WSP	Oil		No	Resolved
10/21/2019	Discharge/Traffic Spill	5	97.22	WSP	Oil		No	Resolved
10/22/2019	Discharge/Traffic Spill	90	32	East Side Fire & Rescue	Motor fluids	Cleaned	No	Resolved
10/22/2019	Discharge/Traffic Spill	512	8.5	WSP	Oil	Cleaned	No	Resolved
10/23/2019	Illicit Discharge	5	135.4	Environmental Company	Hydraulic Fluid		No	Resolved
10/25/2019	Illicit Discharge	90	5.8	Contractor	Turbid Water	Cleaned	Yes	Resolved
10/27/2019	Discharge/Traffic Spill	12	70	WSP	Diesel		No	Resolved
10/29/2019	Discharge/Traffic Spill	5	127	WSP	Oil	Cleaned	No	Resolved
10/30/2019	Discharge/Traffic Spill	5	125.23	CCTV	Fuel	Cleaned	No	Resolved
11/1/2019	Discharge/Traffic Spill	90	48	Citizen	Diesel	Cleaned	No	Resolved
11/3/2019	Discharge/Traffic Spill	125	5	WSP	Fuel	Cleaned	No	Resolved
11/4/2019	Discharge/Traffic Spill	5	44	WSP	Oil		No	Resolved
11/6/2019	Discharge/Traffic Spill	97	31	WSDOT	Fuel	Cleaned	No	Resolved
11/11/2019	Discharge/Traffic Spill	101	255	WSP	Fuel	Cleaned	No	Resolved
11/12/2019	Discharge/Traffic Spill	500	4	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
11/13/2019	Discharge/Traffic Spill	410	9.32	WSP	Diesel	Cleaned	No	Resolved
11/13/2019	Illicit Connection	530	26.11	WSDOT	Excess Water	Cleaned	No	Resolved
11/15/2019	Discharge/Traffic Spill	6	51.3	WSP	Motor fluids	Cleaned	No	Resolved
11/17/2019	Discharge/Traffic Spill	90	32	Ecology	Fuel	Cleaned	No	Resolved
11/17/2019	Discharge/Traffic Spill	18	3	WSP	Diesel	Cleaned	No	Resolved
11/19/2019	Discharge/Traffic Spill	5	183.91	WSP	Diesel	Cleaned	No	Resolved
11/19/2019	Discharge/Traffic Spill	5	15.4	WSDOT	Diesel		No	Resolved
11/20/2019	Discharge/Traffic Spill	167	9.6	Oly TMC	Fuel	Cleaned	No	Resolved
11/21/2019	Discharge/Traffic Spill	90	16.96	TMS	Coolant	Cleaned	No	Resolved
11/26/2019	Discharge/Traffic Spill	90	53.5	Citizen	Diesel	Cleaned	No	Resolved
11/26/2019	Discharge/Traffic Spill	5	63.5	WSP	Fuel	Cleaned	No	Resolved
11/26/2019	Discharge/Traffic Spill	101	50	WSP	Motor fluids	Cleaned	No	Resolved
11/27/2019	Discharge/Traffic Spill	20	42	WSP	Oil	Cleaned	No	Resolved
11/27/2019	Discharge/Traffic Spill	510	13.5	Ecology	Oil	Cleaned	No	Resolved
12/3/2019	Discharge/Traffic Spill	90	195	WSP	Diesel	Cleaned	No	Resolved
12/3/2019	Illicit Discharge	90	27.3	King County	Turbid Water		Yes	Resolved
12/4/2019	Discharge/Traffic Spill	167	24.42	WSDOT	Oil	Cleaned	No	Resolved
12/4/2019	Discharge/Traffic Spill	5	179.27	TMS	Unknown	Cleaned	No	Resolved
12/5/2019	Discharge/Traffic Spill	509	0	WSP	Fuel		No	Resolved
12/6/2019	Discharge/Traffic Spill	5	172.63	WSDOT	Oil	Cleaned	No	Resolved
12/7/2019	Discharge/Traffic Spill	405	13.92	WSP	Oil	Cleaned	No	Resolved
12/9/2019	Discharge/Traffic Spill	500	1.8	WSP	Fuel		No	Resolved
12/11/2019	Discharge/Traffic Spill	539	12.54	WSP	Oil		No	Resolved
12/11/2019	Discharge/Traffic Spill	5	130	Pierce County	Oil		No	Resolved
12/11/2019	Discharge/Traffic Spill	101	333	WSP	Fuel		No	Resolved
12/12/2019	Discharge/Traffic Spill	160	7.3	Citizen	Gasoline	Cleaned	No	Resolved
12/12/2019	Discharge/Traffic Spill	14	137	WSP	Fuel	Cleaned	No	Resolved
12/13/2019	Discharge/Traffic Spill	5	191.39	TMS	Fuel		No	Resolved

Detailed IDDE Issues Table

Date	Type of Discharge	State Route	Milepost	Discovery	Pollutant	Action Taken	G3 Notification to Ecology	Status
12/13/2019	Discharge/Traffic Spill	4	39	WSP	Motor fluids	Cleaned	No	Resolved
12/14/2019	Discharge/Traffic Spill	182	12	WSP	Sludge		No	Resolved
12/15/2019	Discharge/Traffic Spill	5	161.4	WSP	Oil	Cleaned	No	Resolved
12/17/2019	Discharge/Traffic Spill	90	195	WSP	Diesel	Cleaned	No	Resolved
12/17/2019	Discharge/Traffic Spill	101	327.94	WSP	Oil	Cleaned	No	Resolved
12/18/2019	Discharge/Traffic Spill	3	3	WSP	Oil	Cleaned	No	Resolved
12/19/2019	Discharge/Traffic Spill	169	16.7	Citizen	Antifreeze & oil	Cleaned	No	Resolved
12/19/2019	Discharge/Traffic Spill	14	37	WSP	Fuel		No	Resolved
12/19/2019	Discharge/Traffic Spill	169	14.6	TMS	Oil	Cleaned	No	Resolved
12/19/2019	Illicit Discharge	96	0.5	Snohomish County	Unknown		Yes	Resolved
12/20/2019	Discharge/Traffic Spill	90	278	WSP	Oil		No	Resolved
12/20/2019	Illicit Discharge	90	5	WSDOT	Stormwater		Yes	Resolved
12/20/2019	Illicit Discharge	520	11.6	Sound Transit	Stormwater		Yes	Resolved
12/21/2019	Discharge/Traffic Spill	5	142.2	WSP	Motor fluids	Cleaned	Yes	Resolved
12/21/2019	Discharge/Traffic Spill	405	13.31	WSP	Diesel	Cleaned	Unknown	Resolved
12/21/2019	Discharge/Traffic Spill	90	288	WSP	Oil		No	Resolved
12/23/2019	Discharge/Traffic Spill	14	22	WSP	Oil		No	Resolved
12/27/2019	Discharge/Traffic Spill	527	11.53	WSP	Sodium Hydroxide	Cleaned	No	Resolved
12/27/2019	Discharge/Traffic Spill	90	67	WSP	Fuel		No	Resolved
12/30/2019	Discharge/Traffic Spill	90	9.9	WSP	Hydraulic Fluid	Cleaned	No	Resolved
12/30/2019	Discharge/Traffic Spill	704	5.29	WSP	Fuel	Cleaned	No	Resolved
12/30/2019	Discharge/Traffic Spill	405	11.28	TMS	Oil	Cleaned	No	Resolved
12/30/2019	Discharge/Traffic Spill	5	11.5	WSP	Diesel		No	Resolved
12/31/2019	Discharge/Traffic Spill	3	36.5	Kitsap County	Gasoline	Cleaned	No	Resolved
1/2/2020	Discharge/Traffic Spill	5	266	WSP	Oil	Cleaned	No	Resolved
1/2/2020	Discharge/Traffic Spill	5	163.42	TMS	Oil	Cleaned	No	Resolved
1/3/2020	Discharge/Traffic Spill	14	134.4	BNSF	Oil	Cleaned	No	Resolved
1/6/2020	Discharge/Traffic Spill	5	174.5	Citizen	Diesel	Cleaned	Yes	Resolved

Detailed IDDE Issues Table

Date	Type of Discharge	State Route	Milepost	Discovery	Pollutant	Action Taken	G3 Notification to Ecology	Status
1/6/2020	Discharge/Traffic Spill	5	157.23	WSP	Fuel		No	Resolved
1/6/2020	Discharge/Traffic Spill	5	174.61	Community Transit	Diesel	Cleaned	No	Resolved
1/7/2020	Illicit Discharge	530	26.11	WSDOT	Turbid Water		No	Resolved
1/8/2020	Discharge/Traffic Spill	529	5.13	WSP	Oil	Cleaned	No	Resolved
1/8/2020	Discharge/Traffic Spill	433	0.9	WSP	Oil	Cleaned	No	Resolved
1/9/2020	Illicit Connection	525	18	WSDOT	Unknown		No	Resolved
1/10/2020	Discharge/Traffic Spill	90	222.5	TMS	Fuel		No	Resolved
1/10/2020	Illicit Discharge	16	12.8	City of Gig Harbor	Turbid Water		No	Resolved
1/15/2020	Discharge/Traffic Spill	90	35	WSP	Diesel	Cleaned	No	Resolved
1/16/2020	Discharge/Traffic Spill	5	5.4	WSP	Acid	Cleaned	No	Resolved
1/17/2020	Discharge/Traffic Spill	82	9	WSP	Diesel		No	Resolved
1/17/2020	Discharge/Traffic Spill	109	15.85	WSP	Propane	Cleaned	No	Resolved
1/21/2020	Discharge/Traffic Spill	90	2	Citizen	Oil		No	Resolved
1/21/2020	Discharge/Traffic Spill	509	29.59	WSP	Oil		No	Resolved
1/21/2020	Discharge/Traffic Spill	14	0	WSP	Fuel		No	Resolved
1/22/2020	Discharge/Traffic Spill	5	177.21	Ecology	Paint	Cleaned	No	Resolved
1/23/2020	Discharge/Traffic Spill	20	64.81	Citizen	Fuel		No	Resolved
1/25/2020	Discharge/Traffic Spill	5	127	WSP	Fuel		Yes	Resolved
1/27/2020	Discharge/Traffic Spill	520	6.2	TMS	Oil		No	Resolved
1/27/2020	Illicit Connection	20	38.61	WSDOT	Turbid Water		No	Resolved
1/28/2020	Discharge/Traffic Spill	8	18	WSP	Fuel	Cleaned	No	Resolved
1/28/2020	Discharge/Traffic Spill	530	51	WSP	Oil		No	Resolved
1/28/2020	Discharge/Traffic Spill	5	106.1	WSP	Fuel		No	Resolved
1/28/2020	Illicit Discharge	167	25	PBS	Turbid Water		No	Resolved
1/29/2020	Discharge/Traffic Spill	5	129.5	WSDOT	Oil	Cleaned	No	Resolved
1/29/2020	Discharge/Traffic Spill	5	145.75	King County	Oil	Cleaned	No	Resolved
1/29/2020	Discharge/Traffic Spill	505	5.4	WSP	Diesel		No	Resolved
1/29/2020	Discharge/Traffic Spill	395	17	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
1/30/2020	Discharge/Traffic Spill	5	168	WSP	Oil	Cleaned	No	Resolved
1/31/2020	Discharge/Traffic Spill	5	253.8	City of Bellingham	Diesel		No	Resolved
1/31/2020	Illicit Connection	16	11.9	City of Gig Harbor	Solid Waste		Yes	Resolved
2/1/2020	Discharge/Traffic Spill	160	5.5	Citizen	Unknown		No	Resolved
2/2/2020	Discharge/Traffic Spill	5	185.77	WSP	Oil		No	Resolved
2/2/2020	Discharge/Traffic Spill	5	139.3	WSP	Diesel	Cleaned	No	Resolved
2/3/2020	Discharge/Traffic Spill	5	253	WSP	Oil		No	Resolved
2/3/2020	Discharge/Traffic Spill	99	6.3	City of Federal Way	Hydraulic Fluid	Cleaned	No	Resolved
2/5/2020	Discharge/Traffic Spill	5	22.6	WSP	Diesel		Yes	Resolved
2/5/2020	Discharge/Traffic Spill	5	176.27	WSP	Oil		No	Resolved
2/5/2020	Illicit Discharge	520	1	City of Graham	Turbid Water	Cleaned	Yes	Resolved
2/6/2020	Discharge/Traffic Spill	5	169.39	Community Transit	Fuel		No	Resolved
2/6/2020	Discharge/Traffic Spill	18	1.98	WSDOT	Fuel	Cleaned	No	Resolved
2/7/2020	Discharge/Traffic Spill	97	234.77	Citizen	Diesel		No	Resolved
2/7/2020	Discharge/Traffic Spill	395	18	WSP	Fuel		No	Resolved
2/8/2020	Discharge/Traffic Spill	405	1.63	Renton Regional Fire	Motor fluids		No	Resolved
2/8/2020	Discharge/Traffic Spill	90	242.29	WSDOT	Diesel	Cleaned	No	Resolved
2/11/2020	Discharge/Traffic Spill	405	20.6	Ecology	Oil	Cleaned	No	Resolved
2/12/2020	Discharge/Traffic Spill	3	32.6	Kitsap County	Hydraulic Fluid	Cleaned	No	Resolved
2/12/2020	Discharge/Traffic Spill	520	3	Ecology	Oil	Cleaned	No	Resolved
2/12/2020	Discharge/Traffic Spill	5	166.46	KC Metro	Oil	Cleaned	No	Resolved
2/13/2020	Discharge/Traffic Spill	5	88.5	WSP	Fuel	Cleaned	No	Resolved
2/13/2020	Illicit Discharge	503	31.2	WSDOT	Turbid Water	Cleaned	No	Resolved
2/15/2020	Discharge/Traffic Spill	5	71	WSP	Fuel	Cleaned	No	Resolved
2/15/2020	Discharge/Traffic Spill	205	33	WSP	Oil	Cleaned	No	Resolved
2/17/2020	Discharge/Traffic Spill	5	120	WSP	Fluid	Cleaned	No	Resolved
2/18/2020	Discharge/Traffic Spill	5	106	WSP	Unknown	Cleaned	No	Resolved
2/19/2020	Discharge/Traffic Spill	97	73	WSDOT	Oil		No	Resolved

Detailed IDDE Issues Table

Date	Type of Discharge	State Route	Milepost	Discovery	Pollutant	Action Taken	G3 Notification to Ecology	Status
2/19/2020	Illicit Connection	20	26.51	WSDOT	Turbid Water		No	Resolved
2/20/2020	Illicit Discharge	5	5	WSDOT	Sewage	Cleaned	Yes	Resolved
2/21/2020	Illicit Discharge	2	31.65	Citizen	Sediment		No	Resolved
2/23/2020	Discharge/Traffic Spill	5	165.08	TMS	Oil		No	Resolved
2/23/2020	Discharge/Traffic Spill	90	2.05	WSDOT	Oil	Cleaned	No	Resolved
2/26/2020	Discharge/Traffic Spill	5	191.15	WSDOT	Oil	Cleaned	No	Resolved
2/27/2020	Discharge/Traffic Spill	18	8.77	TMS	Fuel	Cleaned	Yes	Resolved
3/6/2020	Discharge/Traffic Spill	405	5	Citizen	Gasoline		No	Resolved
3/6/2020	Discharge/Traffic Spill	90	7.2	WSP	Oil	Cleaned	No	Resolved
3/6/2020	Discharge/Traffic Spill	5	136.09	WSDOT	Fuel		No	Resolved
3/6/2020	Discharge/Traffic Spill	90	9.72	WSP	Oil	Cleaned	No	Resolved
3/6/2020	Discharge/Traffic Spill	395	166	WSP	Oil	Cleaned	No	Resolved
3/6/2020	Discharge/Traffic Spill	5	165.8	WSDOT	Oil	Cleaned	No	Resolved
3/7/2020	Discharge/Traffic Spill	432	10	WSP	Diesel	Cleaned	No	Resolved
3/8/2020	Discharge/Traffic Spill	508	9.6	WSP	Fuel		No	Resolved
3/9/2020	Illicit Discharge	520	11.7	WSDOT	Turbid Water	Cleaned	No	Resolved
3/11/2020	Discharge/Traffic Spill	2	279.73	WSP	Paint		No	Resolved
3/11/2020	Discharge/Traffic Spill	5	127.5	WSP	Diesel	Cleaned	No	Resolved
3/13/2020	Discharge/Traffic Spill	5	194.46	Citizen	Fuel		Unknown	Resolved
3/15/2020	Discharge/Traffic Spill	512	7.25	WSP	Diesel	Cleaned	No	Resolved
3/17/2020	Discharge/Traffic Spill	410	10.41	WSP	Oil		No	Resolved
3/17/2020	Discharge/Traffic Spill	90	68	WSDOT	Diesel	Cleaned	No	Resolved
3/18/2020	Discharge/Traffic Spill	12	412	WSDOT	Oil	Cleaned	No	Resolved
3/20/2020	Illicit Connection	101	260.9	Ecology	Oil	Cleaned	Yes	Resolved
3/21/2020	Discharge/Traffic Spill	262	20	WSP	Fuel	Cleaned	No	Resolved
3/24/2020	Discharge/Traffic Spill	405	7.45	Ecology	Diesel	Cleaned	No	Resolved
3/26/2020	Discharge/Traffic Spill	704	5.29	WSP	Diesel	Cleaned	No	Resolved
3/29/2020	Discharge/Traffic Spill	2	99	WSDOT	Fertilizer	Cleaned	No	Resolved

Detailed IDDE Issues Table

Date	Type of Discharge	State Route	Milepost	Discovery	Pollutant	Action Taken	G3 Notification to Ecology	Status
3/30/2020	Discharge/Traffic Spill	150	3	WSDOT	Paint	Cleaned	No	Resolved
4/1/2020	Discharge/Traffic Spill	101	240	WSP	Diesel	Cleaned	No	Resolved
4/4/2020	Discharge/Traffic Spill	261	26	WSP	Diesel		No	Resolved
4/6/2020	Discharge/Traffic Spill	90	18	City of Issaquah	Oil	Cleaned	No	Resolved
4/13/2020	Discharge/Traffic Spill	5	149	WSP	Oil	Cleaned	No	Resolved
4/15/2020	Discharge/Traffic Spill	12	111	WSP	Oil	Cleaned	No	Resolved
4/20/2020	Discharge/Traffic Spill	3	16.59	WSP	Fuel	Cleaned	No	Resolved
4/20/2020	Illicit Discharge	5	81.6	Citizen	Sewage	Cleaned	Yes	Resolved
4/21/2020	Illicit Discharge	90	13.7	WSDOT	Turbid Water		No	Resolved
4/22/2020	Discharge/Traffic Spill	512	0	WSP	Oil	Cleaned	No	Resolved
4/23/2020	Discharge/Traffic Spill	5	74	WSP	Diesel	Cleaned	No	Resolved
4/23/2020	Discharge/Traffic Spill	90	5	WSDOT	Oil	Cleaned	Yes	Resolved
4/29/2020	Discharge/Traffic Spill	141	5.9	WSP	Fertilizer	Cleaned	No	Resolved
4/29/2020	Discharge/Traffic Spill	8	9	WSP	Oil	Cleaned	No	Resolved
5/1/2020	Discharge/Traffic Spill	90	54	WSDOT	Fuel	Cleaned	No	Resolved
5/2/2020	Discharge/Traffic Spill	530	21	WSP	Oil	Cleaned	No	Resolved
5/6/2020	Discharge/Traffic Spill	90	53	WSDOT	Fuel	Cleaned	No	Resolved
5/7/2020	Discharge/Traffic Spill	5	235	Citizen	Diesel	Cleaned	No	Resolved
5/8/2020	Discharge/Traffic Spill	523	0.87		Oil	Cleaned	No	Resolved
5/12/2020	Discharge/Traffic Spill	90	287	WSP	Diesel		No	Resolved
5/12/2020	Discharge/Traffic Spill	101	120	WSP	Gasoline	Cleaned	No	Resolved
5/12/2020	Discharge/Traffic Spill	5	0	WSDOT	Oil	Cleaned	No	Resolved
5/14/2020	Discharge/Traffic Spill	20	62	TMS	Oil	Cleaned	No	Resolved
5/17/2020	Discharge/Traffic Spill	18	22.89	WSP	Oil	Cleaned	No	Resolved
5/19/2020	Discharge/Traffic Spill	17	27	Ecology	Diesel		No	Resolved
5/19/2020	Discharge/Traffic Spill	505	0.5	WSP	Hydrofluoric Acid	Cleaned	No	Resolved
5/20/2020	Discharge/Traffic Spill	5	161.23	WSP	Oil		No	Resolved
5/21/2020	Illicit Discharge	90	5	WSDOT	Concrete	Cleaned	Yes	Resolved

Detailed IDDE Issues Table

Date	Type of Discharge	State Route	Milepost	Discovery	Pollutant	Action Taken	G3 Notification to Ecology	Status
5/22/2020	Discharge/Traffic Spill	5	238	WSP	Diesel	Cleaned	No	Resolved
5/22/2020	Discharge/Traffic Spill	5	230	WSP	Oil	Cleaned	No	Resolved
5/23/2020	Discharge/Traffic Spill	509	24.83	WSP	Oil	Cleaned	No	Resolved
5/23/2020	Discharge/Traffic Spill	82	96	WSP	Liquid Fertilizer	Cleaned	No	Resolved
5/24/2020	Discharge/Traffic Spill	902	6.8	WSP	Unknown	Cleaned	No	Resolved
5/27/2020	Discharge/Traffic Spill	101	307	WSDOT	Cooking Oil	Cleaned	No	Resolved
5/29/2020	Discharge/Traffic Spill	5	11.3	WSDOT	Palm Oil	Cleaned	No	Resolved
6/1/2020	Discharge/Traffic Spill	5	164	WSP	Diesel	Cleaned	Yes	Resolved
6/1/2020	Illicit Discharge	5	180.7	WSDOT	Turbid Water		Yes	Resolved
6/5/2020	Discharge/Traffic Spill	5	164	TMS	Fuel		No	Resolved
6/5/2020	Discharge/Traffic Spill	9	31.65	WSP	Oil	Cleaned	No	Resolved
6/5/2020	Discharge/Traffic Spill	99	25.67	WSDOT	Oil		No	Resolved
6/6/2020	Discharge/Traffic Spill	526	3.26	Everett PD	Fuel	Cleaned	No	Resolved
6/7/2020	Discharge/Traffic Spill	90	31	WSP	Oil	Cleaned	No	Resolved
6/8/2020	Discharge/Traffic Spill	5	238	WSDOT	Fuel	Cleaned	No	Resolved
6/9/2020	Illicit Discharge	520	1.6	WSDOT	Oil	Cleaned	Yes	Resolved
6/11/2020	Discharge/Traffic Spill	18	0.1	Pro Tow	Fuel	Cleaned	No	Resolved
6/12/2020	Discharge/Traffic Spill	12	25.67	WSP	Oil	Cleaned	Yes	Resolved
6/15/2020	Discharge/Traffic Spill	3	30	WSDOT	Oil	Cleaned	No	Resolved
6/15/2020	Discharge/Traffic Spill	5	157	TCM	Oil	Cleaned	No	Resolved
6/15/2020	Discharge/Traffic Spill	5	215	PACCAR	Diesel	Cleaned	No	Resolved
6/16/2020	Discharge/Traffic Spill	28	125	WSP	Diesel	Cleaned	No	Resolved
6/16/2020	Discharge/Traffic Spill	90	32	WSP	Oil	Cleaned	No	Resolved
6/16/2020	Discharge/Traffic Spill	90	27.3	WSP	Motor fluids	Cleaned	No	Resolved
6/16/2020	Discharge/Traffic Spill	202	28.6	East Side Fire & Rescue	Fuel		No	Resolved
6/17/2020	Discharge/Traffic Spill	18	11.4	TMS	Diesel	Cleaned	No	Resolved
6/17/2020	Illicit Discharge	5	172.2	WSDOT	Turbid Water		No	Resolved
6/18/2020	Discharge/Traffic Spill	18	4.5	Citizen	Diesel		No	Resolved

Detailed IDDE Issues Table

Date	Type of Discharge	State Route	Milepost	Discovery	Pollutant	Action Taken	G3 Notification to Ecology	Status
6/18/2020	Discharge/Traffic Spill	5	206	WSDOT	Oil		No	Resolved
6/19/2020	Discharge/Traffic Spill	101	252.16	WSP	Diesel	Cleaned	No	Resolved
6/19/2020	Discharge/Traffic Spill	520	11.7	WSDOT	Coolant	Cleaned	No	Resolved
6/19/2020	Illicit Discharge	90	38	King County	Sewage		No	Resolved
6/22/2020	Discharge/Traffic Spill	500	4	WSP	Diesel	Cleaned	Yes	Resolved
6/23/2020	Discharge/Traffic Spill	16	29	WSP	Oil	Cleaned	No	Resolved
6/24/2020	Discharge/Traffic Spill	14	137	WSDOT	Fuel	Cleaned	No	Resolved
6/29/2020	Discharge/Traffic Spill	410	9.32	WSP	Fuel	Cleaned	No	Resolved
6/30/2020	Discharge/Traffic Spill	9	19.25	City of Marysville	Coolant	Cleaned	No	Resolved

