Washington State University Tri-Cities
Stormwater Management Program (SWMP) Plan
WSU PERMIT # WAR04-6207

Washington State University Tri-Cities (WSUTC) has developed this Stormwater Management Program (SWMP) Plan in order to effectively manage stormwater in a manner that prevents or minimizes stormwater pollution.

WSUTC is a secondary permittee under the Eastern Washington Phase II Municipal Stormwater Permit. As a secondary permittee, this plan must address the six plan elements included in Section S6 of the Phase II Municipal Stormwater Permit. Compliance with these elements is detailed below. Each plan element is identified in bold type, followed by a summary of the permit goals and requirements. WSUTC's actions and compliance status appear in italics.

In addition to these plan elements, WSUTC must meet all other requirements of the Phase II Municipal Stormwater Permit, except Sections 5, S8.B, and S8.C. A full copy of the Phase II Municipal Stormwater Permit is included as Appendix A to this plan.

Section S6.D.1 Public Education and Outreach

Goal
To increase university faculty, staff, students, and visitors awareness regarding the location of storm drain inlets, how to recognize and prevent pollution of stormwater, and the impacts of stormwater pollution.

Permit Requirements
a) Label all storm drain inlets, and ensure that labels remain easily readable
b) Distribute educational materials to the university community describing the impacts of stormwater discharges on receiving waters and steps that can be taken to reduce pollutants in stormwater.

***Status**:*
a) Currently, twenty-two known catch basins are labeled on campus. These are inspected quarterly by Environmental Health & Safety (EH&S) to ensure that labeling is visible, and markings are re-applied as needed. Durable plastic markings are glue-applied to the drain inlet grate in some locations. In other areas, the plastic markings have proved to be prone to damage or disturbance, so painted markings are used instead. In both cases, the marking includes the text "No Dumping" and either "Drains to River" or "Drains to Groundwater" as appropriate to the location." Relabeling was most recently completed on December 23, 2020.
b) Educational information is posted on the WSUTC EH&S website. Topics will vary from year to year, but will generally focus on the impacts of stormwater on receiving waters, proper handling of waste, litter control, and recognition of illicit discharges. Information will be distributed via mass e-mail and also posted on the EH&S website.

Section S6.D.2 Public Involvement and Participation

Goal

To encourage the involvement of faculty, staff, students, and the public in the WSUTC Stormwater program and planning process.

Permit Requirements
Publish the annual report and the most recent version of the WSUTC SWMP no later than May 31 each year.

***Status**:*
Copies of the SWMP and annual report will be posted on the WSUTC EH&S website annually upon completion, with notification of the updated documents sent via mass e-mail and through the campus news service

Section S6.D.3 Illicit Discharge Detection and Elimination (IDDE)

Goal
To maintain and improve local surface water quality by identifying and eliminating illicit stormwater discharges.

Permit Requirements
a) Comply with all relevant ordinances, rules, and regulations of the City of Richland that govern non-stormwater discharges.
b) Develop and adopt policies prohibiting illicit discharges. These policies shall address, at a minimum: illicit connections; non-stormwater discharges, including spills of hazardous materials, pet waste, and litter.
c) Develop enforcement mechanisms and plan to ensure compliance with the illicit discharge policies. The plan must delineate allowed and prohibited non-stormwater discharges (and their permit listed conditions) to stormwater.
d) Maintain a storm sewer system map showing the locations of all known storm drain outfalls, labeling the receiving waters, other than ground water, and delineating the areas contributing runoff to each outfall. Make the map (or completed portions of the map) available on request to Ecology and to the extent appropriate, to other Permittees. The preferred format for mapping is an electronic format with fully described mapping standards.
e) Conduct field inspections and visually inspect for illicit discharges at all known MS4 outfalls. Visually inspect at least one third (on average) of all known outfalls each year beginning no later than two years from the initial date of permit coverage. Implement procedures to identify and remove any illicit discharges. Keep records of inspections and follow-up activities.
f) Implement a spill response plan that includes coordination with a qualified spill responder.
g) Provide staff training or coordinate with existing training efforts to educate staff on proper best management practices for preventing illicit discharges. Train all Permittee staff who, as part of their normal job responsibilities, have a role in preventing such illicit discharges.

Status:
a) In compliance with ordinance.
b) WSU developed and published the enforcement policy in the Safety Policies and Procedures Manual 6.58 Stormwater Management.

c) *The WSUTC Stormwater Operations & Maintenance Manual includes information regarding Illicit Discharges which meet this requirement.*
d) *WSUTC has a stormwater system map. Drone-based laser measurement anticipated in 2019 was not completed, so EH&S is currently working with engineering students to completed a topographic survey of campus in order to develop a new digital map.*
e) *All known outfalls have been identified and inspected, and at least one-third are inspected annually. Records of inspections are maintained. Procedures for identifying and addressing illicit discharges have been developed, and are incorporated into the WSUTC Stormwater Operations & Maintenance Manual. This includes inspection procedures and education efforts for campus employees and students.*
When illicit discharges are found, depending on the severity, either DOE will be contacted (per S4.F.1 of the permit) or the discharge will be logged into our database and reported at the end of the year in the annual report. Corrective actions will be enforced when it is human or mechanical error that caused the discharge. (NOTE: No illicit discharges have been identified to date.)
f) *This requirement has been met by the campus Hazardous Waste Management Plan and the IDDE section of the Stormwater O&M Plan. WSUTC has immediate access to qualified spill responders through existing state contracts for releases that exceed the capabilities of local resources.*
g) *EH&S provides training to appropriate staff on proper best management practices to help prevent illicit discharges.*

Section S6.D.4 Construction Site Stormwater Runoff Control

Goal
To prevent the discharge of sediment and other construction-related pollutants from construction sites.

Permit Requirements
a) Comply with all relevant ordinances, rules, and regulations of the City of Richland that govern construction phase stormwater pollution prevention measures.
b) Ensure that all construction projects under the functional control of the Secondary Permittee which require a construction stormwater permit obtain coverage under the National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges Associated with Construction Activities, or an individual NPDES permit prior to discharging construction related stormwater.
c) Coordinate with the local jurisdiction regarding projects owned or operated by other entities which discharge into the Secondary Permittee's MS4, to assist the local jurisdiction with achieving compliance with all relevant ordinances, rules, and regulations of the local jurisdiction(s).
d) Provide training or coordinate with existing training efforts to educate relevant staff in erosion and sediment control Best Management Practices (BMPs) and requirements, or hire trained contractors to perform the work.
e) Coordinate as requested with Ecology or the local jurisdiction to provide access for inspection of construction sites or other land disturbances, which are under the functional control of the Secondary Permittee during the land disturbing activities and/or construction period.

***Status**:*
WSUTC does not manage construction projects on campus. When construction activities may result in creation and discharge of sediment, WSU hires contractors who have Certified Erosion and Sediment Control Leads (CESCLs) on call 24 hours a day as required by the Permit. Control of the construction site is granted to the contractor, and they are required to obtain all required permits and provide appropriate sediment controls, and meet all requirements for access and inspection.

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

Goal
Control stormwater runoff from new development and redevelopment projects.

Permit Requirements

a) Comply with all relevant ordinances, rules and regulations of the local jurisdiction(s) in which the Secondary Permittee is located that govern post-construction stormwater pollution prevention measures.
b) Coordinate with the local jurisdiction regarding projects owned or operated by other entities which discharge into the Secondary Permittee's MS4, to assist the local jurisdiction with achieving compliance with all relevant ordinances, rules, and regulations of the local jurisdiction(s).

***Status**:*
In compliance with requirements. Similar to methods in S6.D.4, construction contractors are required to maintain sediment controls in a manner which prevents discharge of sediments. Current construction of new academic building being managed by Hoffman Construction. Final oversight is being provided by CESCL-certified staff from Pullman WSU.

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

Goal
To reduce pollutant loading in stormwater runoff from roadways, parking areas, maintenance and storage yards, waste transfer stations, grounds and impervious surfaces.

Permit Requirements
a) Implement a municipal operation and maintenance (O&M) plan to minimize stormwater pollution from activities conducted by the Secondary Permittee. The O&M Plan shall include appropriate pollution prevention and good housekeeping procedures for all of the following operations, activities, and/or types of facilities that are present within the Secondary Permittee's boundaries and under the functional control of the Secondary Permittee.
    i. Stormwater collection and conveyance systems, including catch basins**,** stormwater pipes, open channels, culverts, and stormwater treatment and/or flow control BMPs and facilities. The O&M Plan shall address, at a minimum: scheduled inspections and maintenance activities, including cleaning and proper

disposal of waste removed from the system. Secondary Permittees shall properly maintain stormwater collection and conveyance systems owned or operated by the Secondary Permittee and regularly inspect and maintain all stormwater facilities to ensure facility function.

Secondary Permittees shall establish maintenance standards that are as protective or more protective of facility function than those specified in Chapters 5, 6 and 8 of the 2004 *Stormwater Management Manual for Eastern Washington*.

Secondary Permittees shall review their maintenance standards to ensure they are consistent with the requirements of this section.

Secondary Permittees shall conduct spot checks of potentially damaged permanent stormwater treatment and flow control facilities following major storm events (24 hour storm event with a 10 year or greater recurrence interval).

ii. Roads, highways, and parking lots. The O&M Plan shall address, but is not limited to: deicing, anti-icing, and snow removal practices; snow disposal areas; material (e.g. salt, sand, or other chemical) storage areas; all-season BMPs to reduce road and parking lot debris and other pollutants from entering the MS4.

iii. Vehicle fleets. The O&M Plan shall address, but is not limited to: storage, washing, and maintenance of Secondary Permittee vehicle fleets; and fueling facilities. Secondary Permittees shall conduct all vehicle and equipment washing and maintenance in a self-contained covered building or in designated wash and/or maintenance areas.

iv. External building maintenance. The O&M Plan shall address, building exterior cleaning and maintenance including cleaning, washing, painting; and maintenance and management of dumpsters; and other maintenance activities.

v. Parks and open space. The O&M Plan shall address, but is not limited to: proper application of fertilizer, pesticides, and herbicides; sediment and erosion control; BMPs for landscape maintenance and vegetation disposal; and trash and pet waste management.

vi. Material storage facilities and heavy equipment maintenance or storage yards. Secondary Permittees shall develop and implement a Stormwater Pollution Prevention Plan to protect water quality at each of these facilities owned or operated by the Secondary Permittee and not covered under the *General NPDES Permit for Stormwater Discharges Associated with Industrial Activities* or under another NPDES permit that authorizes stormwater discharges associated with the activity.

vii. Other facilities that would reasonably be expected to discharge contaminated runoff. The O&M Plan shall address proper stormwater pollution prevention practices for each facility.

b) Secondary Permittees shall also have permit coverage for all facilities operated by the Secondary Permittee that are required to be covered under the *General NPDES Permit for Stormwater Discharges Associated with Industrial Activities* or another NPDES permit that authorizes surface water discharges associated with the activity.

c) The O&M Plan shall include sufficient documentation and records as necessary to demonstrate compliance with the O&M Plan requirements in S6.D.6.a.(i) through (vii) above.

d) No later than three years from the initial date of permit coverage, Secondary Permittees shall implement a program designed to train all employees whose construction,

operations, or maintenance job functions may impact stormwater quality. The training shall address:

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

***Status**:*

a) An Operations and Maintenance Plan for all identified activities occurring on the WSUTC campus has been developed, and WSUTC is in compliance with its requirements. The plan was fully updated in 2018. A planned update in 2020 was postponed due to COVID interruptions, and will be updated upon completion of the new academic building.

b) WSUTC does not currently have any facilities that are required to be covered under this permit.

c) In conjunction with the 2018 O&M Plan update, records of activities are currently being consolidated and recording of new activities is being incorporated. It was planned to be complete in 2020, but was interrupted by COVID, and remains in progress..

d) EH&S provides training to applicable employees, and assists departments with their O&M Plan requirements.

Section S7 Compliance with Total Maximum Daily Load (TMDL) Requirements

***Status**: There are no applicable TMDLs that apply to the WSU Tri-Cities permit.*

Section S8 Monitoring and Program Evaluation

Goal:
Perform and document monitoring and program evaluation and maintain records of such activities.

Permit Requirements
Provide a description of any stormwater monitoring or stormwater-related studies conducted by the Permittee during the reporting period. If other stormwater monitoring or stormwater-related studies were conducted on behalf of the Permittee during the reporting period, or if stormwater-related investigations conducted by other entities were reported to the Permittee during the reporting period, a brief description of the type of information gathered or received shall be included in the annual report.

***Status**:*
No monitoring has been required or conducted to date.

Section S9 Reporting and Recordkeeping

Goal
To report required information to Ecology on an annual basis, and any other beneficial stormwater program information to the public through distribution channels to the public as required by the permit.

Permit Requirements (S9.A, B, C, & E)

Submit an annual report by March 31 of each year for the preceding calendar year activities.
Maintain records related to the Eastern Washington Phase II Municipal Stormwater Permit for at least five years.
Make records related to this permit and the SWMP available to the public.

***Status**:*
The SWMP was updated in 2020 and made available on the WSUTC EH&S website. The O&M Plan was completely updated, and the IDDE plan incorporated into the O&M in 2019. A Stormwater Pollution Prevention Plan for Maintenance Areas was also updated in 2018. All completed records are available to the public upon request.