

# Washington State University Pullman Stormwater Management Program Plan 2018

The Washington State University (WSU) Pullman Stormwater Management Program (SWMP) Plan has six elements derived from the Eastern Washington Phase II Municipal Stormwater Permit. WSU Pullman shall meet all regulatory requirements for Secondary Permittees in this Phase II Municipal Stormwater Permit.

The overall goal for this Program is to prevent and minimize stormwater pollution and to manage stormwater as a resource more efficiently and effectively.

Please note that paraphrased sections from the Phase II Municipal Stormwater Permit are in regular font, and the WSU Pullman sections are in *italics*.

## Program and Permit Elements

### 1. Public Education and Outreach (S6.D.1)

#### Goal

*To promote awareness and support for stormwater management activities among students, tenants and residents and to show how they can prevent stormwater pollution.*

#### Permit Elements

WSU Pullman shall implement the following stormwater education strategies: Storm drain inlets (catch basins) owned and operated by WSU Pullman that are located in maintenance yards, in parking lots, along sidewalks, and at pedestrian access points shall be clearly and permanently labeled with the message “Dump No Waste Drains to River.”

***Description of program activities:*** *Currently all catch basins are labeled on campus. Catch basins that are found to have labels removed or damaged are reported to Facilities Services, and placed on a list for relabeling when weather permits. Facilities Services maintains a database of catch basin locations.*

As identified during visual inspection and regular maintenance of catch basins, or as otherwise reported to WSU Pullman, any catch basin with a label removed or that is no longer clearly visible and/or easily readable shall be re-labeled within 90 days.

***Description of program activities:*** *Snow plows and street sweepers occasionally remove or deface the labels attached to catch basins. As a result Facilities Services now installs more durable metal labels. Facilities Services and EHS developed an electronic tracking system so that catch basins are relabeled within the 90 day period.*

Each year WSU Pullman shall distribute educational information to tenants and residents on the impact of stormwater discharges on receiving waters, and steps that can be taken to reduce pollutants in stormwater runoff. Different combinations of topics shall be addressed each year. Where relevant, tenants and residents shall receive educational information about the following topics:

- How stormwater runoff affects local waterbodies;
- Proper use and application of pesticides and fertilizers (*not relevant to WSU Pullman tenants and residents*);
- Benefits of using well-adapted vegetation (*not relevant to WSU Pullman tenants / residents*);
- Alternative equipment washing practices including cars and trucks that minimize pollutants in stormwater;
- Benefits of proper vehicle maintenance and alternative transportation choices; proper handling and disposal of wastes, including the location of hazardous waste collection facilities in the area;
- Hazards associated with illicit connections; and
- Benefits of litter control and proper disposal of pet waste.

**Description of program activities:** *Each year Housing sends an electronic educational announcement to residents on campus. Environmental Health and Safety sends the same announcement to the tenants on campus. Environmental Health and Safety will continue to update the stormwater website and send out educational information via WSU Insider. Environmental Health and Safety also uses digital signage at the Student Recreation Center promoting individual complete routine maintenance on their vehicles to minimize the amount of vehicle fluids potentially reaching the stormwater system, “Don’t Drip and Drive”.*

## **2. Public Involvement and Participation (S6.D.2)**

### **Goal**

*To promote and facilitate faculty, staff, student and public participation and involvement in the WSU Pullman SWMP Plan and planning process including: 1) creating opportunities for the public to participate in the decision making processes involving the development; 2) implementation and update of WSU Pullman’s SWMP Plan; 3) development and adoption of all required ordinances, and; 4) receipt and consideration of information on construction site stormwater runoff control.*

### **Permit Elements**

Each year no later than May 31 WSU Pullman shall:

- Make the annual report available on the website.
- Make the latest updated version of the SWMP Plan available on the website.

**Description of program activities:** *The annual report and updated SWMP are posted on the WSU Pullman Environmental Health & Safety web site each year at <http://ehs.wsu.edu/ph/StormwaterManagement.html>. The annual report also provides a summary of the implementation of the TMDL*

### 3. Illicit Discharge Detection and Elimination (S6.D.3)

#### Goal

*To identify and eliminate illicit discharges to WSU Pullman's storm sewer system, thereby improving local surface water quality.*

#### Permit Elements

WSU Pullman shall comply with all relevant ordinances, rules, and regulations of the City of Pullman that govern non-stormwater discharges (illicit discharges for example).

***Description of program activities:*** *WSU Pullman is in compliance with this ordinance.*

WSU Pullman shall implement appropriate policies prohibiting illicit discharges, and an enforcement plan to ensure compliance with the illicit discharge policies. These policies shall address, at a minimum: illicit connections; non-stormwater discharges, including spills of hazardous materials, pet waste, and litter.

***Description of program activities:*** *WSU Pullman developed and published the enforcement policy in the Safety Policies and Procedures Manual 6.58 Stormwater Management.*

WSU Pullman shall maintain a storm sewer system map showing the locations of all known storm drain outfalls, labeling the receiving waters, other than groundwater, and delineating the areas contributing runoff to each outfall. Make the map available on request to Ecology, and to the extent appropriate, to other Permittees.

***Description of program activities:*** *WSU Pullman has developed GIS maps of the system, and Facilities Services continues to verify, and make updates to the maps as needed.*

WSU Pullman shall conduct field inspections and visually inspect for illicit discharges at all known outfalls. WSU Pullman shall visually inspect at least one third (on average) of all known outfalls each year. Implement procedures to identify and remove any illicit discharges and keep records of inspections and follow-up activities.

***Description of program activities:*** *WSU Pullman inspects at least one third of outfalls annually, performs sampling, documents any illicit discharges, and eliminates them immediately if possible or as funding allows, and keeps records. Environmental Health and Safety shall continue to visually inspect outfalls on an annual basis, and perform sampling as needed.*

*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 data base 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. Illicit*

*connections that are identified, which are not easily fixed, are added to the WSU Pullman Minor Capital Safety budget for future correction. In the interim, users in the areas where these illicit connections exist are advised not to discharge anything into these illicit connections if feasible.*

*WSU Pullman has a South Fork of the Palouse River Fecal Coliform Bacteria Total Maximum Daily Load permit requirement to reduce the amount of bacteria from three outfalls by 40% of the Waste Load Allocation (WLA) by December 31, 2016. Unfortunately WSU Pullman did not achieve this WLA reduction by the deadline. An Action Plan was submitted to Ecology in February 2017. After many revisions, the Action Plan and Quality Assurance Project Plan (QAPP) was finalized in January 2018. WSU Pullman began sampling in March 2018. Sampling will continue through 2020.*

*Desire line paths will continue to be repaired or closed off so that soil erosion from the paths can be eliminated.*

WSU Pullman shall implement a spill response plan that includes coordination with a qualified spill responder.

***Description of program activities:*** *WSU Pullman has developed and implemented a spill response plan that includes coordination with a qualified spill responder. WSU Pullman also has a Spill Prevention, Control and Counter Measure (SPCC) Plan.*

WSU Pullman shall provide staff training or coordinate with existing training efforts to educate staff on proper best management practices for preventing illicit discharges, and train all Permittee staff who, as a part of their normal job responsibilities, have a role in preventing such illicit discharges.

***Description of program activities:*** *Environmental Health and Safety conducts staff training on proper best management practices to help prevent illicit discharges. Environmental Health and Safety continues to provide staff training to various departments and areas as needed on an annual basis.*

#### **4. Construction Site Stormwater Runoff Control (S6.D.4)**

##### **Goal**

*To prevent the discharge of sediment, erosion, and other construction related pollutants from construction sites.*

##### **Permit Elements**

WSU Pullman shall:

Comply with all relevant ordinances, rules, and regulations of the City of Pullman that govern construction phase stormwater pollution prevention measures.

**Description of program activities:** *WSU Pullman and the City of Pullman developed an interagency agreement in order for WSU Pullman to meet the City Code without requiring City approval and inspections for applicable projects. Environmental Health and Safety submits an annual report to the City detailing what projects were being constructed in the previous year and what activities (inspections, reports, enforcement actions, etc.) were performed. The report was submitted to the City on January 18, 2018.*

Ensure that all construction projects under the control of WSU Pullman which require a construction stormwater permit obtain coverage under the NPDES General Permit for Stormwater Discharges Associated with Construction Activities.

**Description of program activities:** *WSU Pullman is in compliance with this requirement for applicable projects. Typically Facilities Services obtains the permit from the Department of Ecology, and transfers it to the contractor for the duration of the project. Once the project is done and soils are stabilized, Facilities Services submits a Notice of Termination to Ecology.*

Coordinate with the City of Pullman regarding projects owned and operated by other entities which discharge into the WSU Pullman's storm sewer system, to assist the City with achieving compliance with all relevant ordinances, rules, and regulations of the City.

**Description of program activities:** *WSU Pullman has been and will continue to be in compliance with this requirement for applicable projects.*

Provide training or coordinate with existing training efforts to educate relevant staff in erosion and sediment control BMPs and requirements, or hire trained contractors to perform the work.

**Description of program activities:** *For projects that require an NPDES General Permit for Stormwater Discharges Associated with Construction Activities, Facilities Services hires contractors that have Certified Erosion and Sediment Control Leads (CESCLs) on call 24 hour a day as required by the Permit. WSU Pullman also has CESCLs to oversee construction projects. EHS provides training to Facilities Services staff on construction BMPs and the permitting process as needed.*

Coordinate as requested with Ecology or the City of Pullman to provide access for inspection of construction sites or other land disturbances, which are under the control of WSU Pullman during the land disturbing activities and/or construction period.

**Description of program activities:** *WSU Pullman is in compliance with this requirement for applicable projects.*

## **5. Post-Construction Stormwater Management for New Development and Redevelopment (S6.D.5)**

### **Goal**

*To control stormwater runoff flow from new development and redevelopment projects.*

### **Permit Elements**

WSU Pullman shall comply with all relevant ordinances, rules and regulations of the City of Pullman that govern post-construction stormwater pollution prevention measures.

**Description of program activities:** *WSU Pullman and the City of Pullman developed an interagency agreement in order for WSU Pullman to meet the City Code without requiring City approval and inspections for applicable projects. Environmental Health and Safety submits an annual report to the City detailing what projects were being constructed in the previous year and what activities (inspections, reports, enforcement actions, etc.) were performed. The report was submitted to the City on January 18, 2018.*

WSU Pullman shall coordinate with the City of Pullman regarding projects owned or operated by other entities which discharge into WSU Pullman's storm sewer system, to assist the City with achieving compliance with all relevant ordinances, rules, and regulations of the City.

**Description of program activities:** *WSU Pullman is in compliance with this requirement for applicable projects.*

## **6. Pollution Prevention and Good Housekeeping for Municipal Operations (S6.D.6)**

### **Goal**

*To reduce pollutant loading in stormwater runoff from roadways, parking areas, maintenance and storage yards, vehicle fleets, parks, impervious surfaces, etc.*

### **Permit Elements**

WSU Pullman shall implement a municipal operation and maintenance (O&M) plan to minimize stormwater pollution from activities conducted by WSU Pullman. The O&M Plan shall include appropriate pollution prevention and good housekeeping procedures for all of the operations, activities, and/or types of facilities that are present within WSU Pullman's boundaries, and under the control of WSU Pullman.

- Stormwater collection and conveyance system, 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. WSU Pullman shall properly maintain stormwater collection and conveyance systems owned and operated by WSU Pullman, and regularly inspect and maintain all stormwater facilities to ensure function.

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

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

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

- 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.
- Vehicle fleets. The O&M Plan shall address, but is not limited to: storage, washing, and maintenance of WSU Pullman's vehicle fleets; and fueling facilities. WSU Pullman shall conduct all vehicle and equipment washing and maintenance in a self-contained covered building or in designated wash and/or maintenance areas.
- External building maintenance. The O&M Plan shall address building exterior cleaning and maintenance including cleaning, washing, painting and other maintenance activities.
- 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 management.
- Material storage facilities and heavy equipment maintenance or storage yards. WSU Pullman shall develop and implement a Stormwater Pollution Prevention Plan to protect water quality at each of these facilities owned or operated by WSU Pullman.
- 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.

***Description of program activities:*** *WSU Pullman has developed and implemented Stormwater O&M Plans, and develops new plans as deemed appropriate. WSU Pullman has updated the O&M Plans and remains in substantial compliance with the above requirements. WSU Pullman implemented a new data collection system that is attached to GIS maps.*

*Facilities Services will 1) continue the Valley Road Playfield detention pond maintenance and weir installation; 2) perform maintenance at the detention ponds at Northwood #1 and #2, and Whitlow Farm, 3) continue cleaning all catch basins, and; 4) replace deteriorated catch basin labels as needed.*

*Pullman receives 2.0 inches of precipitation in a 10-year 24-hour storm per the Eastern WA Stormwater Manual Figure 4.3.4. However no storms involving 2.0 inches of precipitation in a 24 hour period occurred in Pullman in 2017. Therefore spot checks were not performed. WSU Pullman will continue to monitor forecasts for 10-year 24-hour storm events, and conduct spot checks afterwards as necessary.*

WSU Pullman shall have permit coverage for all facilities operated by WSU Pullman that are required to be covered under the *General NPDES Permit for Stormwater Discharges Associated with Industrial Activities*.

***Description of program activities:*** *WSU Pullman currently does not have any facilities that are required to be covered under this Permit. In the future WSU Pullman will obtain permits for facilities that meet this Permit requirement.*

The O&M Plan shall include sufficient documentation and records as necessary to demonstrate compliance with the O&M Plan requirements in this section above.

***Description of program activities:*** *WSU Pullman is in compliance with this requirement.*

WSU Pullman shall implement a program designed to train all employees whose construction, operations, or maintenance job functions may impact stormwater quality. The training shall address:

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

***Description of program activities:*** *Environmental Health and Safety provides on-going training to applicable employees, and assists departments with their O&M Plan requirements. In addition Environmental Health & Safety has a form and procedures for reporting water quality concerns to Ecology, the City of Pullman, and the Whitman County Health Dept.*