

Attachment 2 - Stormwater Management Program (SWMP) Update

BACKGROUND

In 2007, the Washington State Department of Ecology (Ecology) issued the first Western Washington Phase II Municipal Stormwater permit (NPDES permit) covering the City of Bonney Lake and 79 other cities in the Puget Sound area. The initial five year permit issued in 2007 expired February of 2012. Before Ecology could issue a new permit with additional new requirements, the Washington State Legislature enacted Senate Bill 6406 to give cities fiscal relief during a period of economic downturn by delaying certain regulatory requirements. This law affected the re-issuance of a new NPDES Permit that was scheduled for 2012. Instead, the bill required the Department of Ecology to: extend the 2007-12 Permit for a period of one additional year and issue the new updated Phase II permit with a delayed effective date of August 2013. The current permit is effective from August 2013 to August 2018 and includes significant new requirements related to Low Impact Development and Monitoring.

Since Ecology issued the first permit, Bonney Lake and the region as a whole, has made a lot of progress towards improving local stormwater programs with the goal of improving water quality in Puget Sound. One of the major requirements under the Municipal NPDES Permit is that all affected cities create and implement a Stormwater Management Program (SWMP) which addresses the required permit elements: 1) Public Education and Outreach, 2) Public Involvement and Participation, 3) Illicit Discharge Detection and Elimination, 4) Construction Site Run-Off, 5) Operations and Maintenance of Stormwater Facilities, and 6) Monitoring and Assessment.

INTRODUCTION

This document is a requirement of the NPDES permit and is updated annually by the City of Bonney Lake's Engineering Division. The SWMP generally describes the requirements of the Permit and Bonney Lake's permit related activities planned for 2015. The content is organized according to the permit components:

- Public Education and Outreach
- Public Involvement and Participation
- Illicit Discharge Detection and Elimination
- Controlling Runoff from New Development, Redevelopment and Construction Sites
- Pollution Prevention and Operation and Maintenance for Municipal Operations
- Monitoring and Assessment

SECTION 1 - PUBLIC EDUCATION AND OUTREACH

Permit Requirement (S5.C.1.)

Permittees shall implement an on-going public education and outreach program designed to reduce or eliminate behaviors and practices that cause or contribute to adverse stormwater impacts and encourage the public to participate in stewardship activities. The program shall educate target audiences about the stormwater problem and provide specific actions they can follow to minimize the problem.

2015 Planned Public Education Activities

Bonney Lake maintains an active Public Education and Outreach Program which uses a variety of approaches to inform targeted audiences about stormwater pollution prevention. The program is consistently evolving and expanding to reach new audiences and cover additional related topics. A summary of the major public education activities planned for 2015 is provided below:

- The City of Bonney Lake will continue the Stormwater Pollution Prevention Art Contest and Calendar Project. For the past five years, the city has developed and distributed calendars to promote stormwater pollution prevention practices. To help convey these messages, the city holds an art contest open to our K-12 students. Winning entries from six categories including Pollution / Illegal Dumping Reporting, Friendly Vehicle Washing, Water Conservation, Pet Waste Disposal, Used Oil Recycling, and Household Hazardous Waste Disposal are used to develop the calendar.
- The city anticipates distributing stormwater pollution prevention informational flyers to over 7,000 City households regarding the general impacts of stormwater flows into surface waters and impacts from impervious surfaces including impacts from pet waste, vehicle fluids, household and lawn chemicals, car and impervious surface washing, and automotive and hazardous waste spills.
- At our annual Bonney Lake Days event; the city will continue displaying the stormwater pollution prevention booth and distributing informational flyers associated with proper hazardous waste disposal and the and information to implement used oil recycling, proper pet waste disposal, and environmentally friendly vehicle washing methods. The flyers also inform residents on natural yard care techniques and ways to conserve water and provides information on how and when to report an illicit discharge, pollution, and illegal dumping.
- The city plans to coordinate with volunteers and continue our storm drain marker program to label storm drains in residential neighborhoods. The curb markers help increase public awareness of the environmental effects of dumping in storm drains and remind the public of the direct connection between storm drains and our surface waters.
- Bonney Lake will continue to offer our “fish friendly” charity car wash kits which are designed to divert wash water to the sanitary sewer system and are loaned out by the City at no cost.
- Bonney Lake staff will continue to participate in regional forums that focus on stormwater education and permit requirements.
- The City of Bonney Lake will update our website stormwater page as needed.

SECTION 2 - PUBLIC INVOLVEMENT & PARTICIPATION

Permit Requirement (S5.C.2.)

Permittees are required to provide the public with the opportunity to participate in the decision-making process involving the development and implementation of NPDES permit related activities and programs. The Stormwater Management Program document and Annual Report must be available to the public, including posting on the City’s website.

2015 Planned Public Involvement Opportunities

The City of Bonney Lake encourages residents and interested parties to participate in the decision making processes involving the implementation of the City's Stormwater Management Program (SWMP). Opportunities for public participation in the development of the Stormwater Management Program in 2015 will be available through the following venues:

- Implementation of the City storm drain marker program utilizing Eagle Scout candidates and the public to install dump no waste curb markers adjacent to City storm drains.
- Install a staffed stormwater pollution prevention booth at Bonney Lake Days events and discuss the City stormwater pollution prevention public education materials with the community.
- Invite local K-12 students in the Bonney Lake community to participate in the annual stormwater pollution prevention art contest / calendar development program.
- The City's Stormwater webpage provides a general description of the Permit and displays the updated SWMP and the Annual Reports as they become available. Opportunity for public comment and participation is encouraged via e-mail.

SECTION 3 – ILLICIT DISCHARGE DETECTION & ELIMINATION (IDDE)

Permit Requirement (S5.C.3.)

Permittees shall maintain an ongoing program designed to prevent, detect, characterize, trace and eliminate illicit connections and illicit discharges into the municipal stormwater system.

2015 IDDE Program Planned Activities

The City of Bonney Lake maintains an ongoing Illicit Discharge Detection and Elimination program designed to identify and remove prohibited discharges and illicit connections to the City's stormwater system. A summary of IDDE activities continued in 2015 is provided below:

- Bonney Lake maintains a comprehensive map of our municipal separate storm sewer system (MS4). The map continues to be updated on an ongoing basis to reflect the changes and expansion of the system captured via field survey.
- The City will enforce Ordinance 1330 which prohibits non-stormwater discharges. The City of Bonney Lake will implement escalating enforcement procedures and actions pursuant to those outlined in the Bonney Lake Municipal Code.
- Staff will continue to visually inspect the MS4 for illicit discharges and connections during MS4 maintenance activities and begin the required field screening documentation effort of the MS4 which is required to be 40 percent complete by the end of 2017.

SECTION 4 - CONTROLLING RUNOFF FROM CONSTRUCTION SITES

Permit Requirement (S5.C.4.)

Permittees must implement an ongoing program for controlling runoff from construction sites. The program must include an ordinance that addresses runoff from new developments, redevelopment and construction sites. The City is required to review all stormwater site plans for proposed development activities and inspect all permitted development sites to verify proper installation and maintenance of required erosion and sediment controls. By December 31, 2016, Permittees must adopt updated stormwater design standards that are equivalent to the Department of Ecology's 2012 Stormwater Management Manual for Western Washington. By December 31, 2016 the City must revise development codes to make low impact development techniques the mandatory approach to stormwater management.

2015 Planned Activities for Controlling Runoff from Construction Sites

The City of Bonney Lake recognizes that construction site run-off is a major contributor to water quality degradation in the greater Puget Sound region. To address this issue and to better protect our natural waterways, the City's current construction site run-off program meets the minimum requirements of the current Permit. However, the current permit requires the City to make significant changes to development-related codes, rules, and standards in order to incorporate and require LID principles and Best Management Practices.

- The City will continue to implement and enforce the program to reduce pollutants in stormwater runoff to our MS4 from new development, redevelopment and construction site activities. The program includes a permitting process with site plan review, inspection and enforcement capability to meet the standards for both private and public projects.
- In 2015, the City will continue to implement the most current Pierce County Stormwater & Site Development Manual as currently allowed in the permit. By December 31, 2016 the City will adopt updated stormwater designs standards that are equivalent to the Department of Ecology's 2012 Stormwater Management Manual for Western Washington. The City will likely adopt a new version of the Pierce County Stormwater & Site Development Manual which is currently being updated to include the new Low Impact Development (LID) standards.
- City staff will begin reviewing and revising our local development-related codes, rules, standards, or other enforceable documents to incorporate and require LID principles and LID Best Management Practices (BMPs). The intent of the revisions is to make LID the preferred and commonly-used approach to site development. Revisions must be complete by December 31, 2016. Staff will track the staff participants (job title, brief job description, and department represented), the codes, rules, standards, and other enforceable documents reviewed, and the revisions made to those documents which incorporate and require LID principles and LID BMPs.

SECTION 5 - POLLUTION PREVENTION, OPERATIONS & MAINTENANCE (O&M)

Permit Requirement (S5.C.5.)

Maintain an ongoing Operations and Maintenance (O&M) program to reduce stormwater impacts associated with maintenance and operations of City streets, facilities, and properties. Adopt updated maintenance standards that are as protective, or more protective, as those specified in the 2012 Stormwater Management Manual for Western Washington by December 31, 2016. Inspect all catch basins owned by the City once by August 1, 2017.

2015 Planned O&M Activities

The City of Bonney Lake maintains a proactive and effective maintenance program of the City's drainage infrastructure, which includes catch basins, pipes, open channels, as well as residential and regional retention/detention facilities. In 2015, Bonney Lake operations & maintenance staff will continue to perform the required inspections and maintenance outlined in the permit in an effort to prevent and reduce pollutant runoff from municipal operations.

- Bonney Lake operations & maintenance staff will inspect all known municipally owned or operated stormwater treatment and flow control facilities in 2015. Maintenance of facilities will be conducted consistent with the adopted standards.
- Continue to implement our Stormwater Pollution Prevention Plans for heavy equipment maintenance and storage yards. Bonney Lake will continue to train City staff whose job functions may impact stormwater quality and maintain records of inspections, maintenance, and training activities.
- The maintenance standards found in the current Pierce County Stormwater & Site Development Manual will apply until the City adopts updated maintenance standards equivalent to the 2012 Stormwater Management Manual for Western Washington (required by December 31, 2016).
- Facilities vulnerable to surface water related problems during major storm events will be inspected to ensure the systems are functioning properly, and to determine/conduct any maintenance or repair needs.
- The city has surveyed and assigned an identification number to all catch basins owned by the city for inspection and maintenance purposes. All catch basins will be inspected by August 1, 2017.
- Staff will implement practices and procedures that prevent stormwater impacts associated with pipe and culvert cleaning, ditch maintenance, street cleaning, road repair, snow and ice control, and maintaining roadside areas and vegetation.
- Records of inspections and maintenance or repair activities will be kept in accordance with the S9 Reporting Requirements of the Permit.

SECTION 6 - MONITORING & ASSESSMENT

Permit Requirement (S8)

Permittees are required to pay into a collective fund to implement the Regional Stormwater Monitoring Program (RSMP) Source Identification Information Repository. The City of Bonney Lake shall choose one of the two options for Status and Trends Monitoring during the 2013-18 permit cycle: pay into regional efforts or perform monitoring in-house. Bonney Lake shall also choose one of the two options for Effectiveness Studies: pay into regional studies or perform studies in-house.

2015 Planned Monitoring Activities

- The City of Bonney Lake will pay into the collective fund to implement the RSMP. A payment of \$4,075 is due August 15, 2015.
- Bonney Lake will also pay into the collective fund to implement the RSMP effectiveness studies. A payment of \$6,790 is due August 15, 2015.
- The City of Bonney Lake will pay into the collective fund to implement the RSMP Source Identification Information Repository. A payment of \$630 is due August 15, 2015.