

# 2015 Stormwater Management Program (SWMP)

## Current Activities in 2014 & Proposed Activities in 2015

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Public Works and Community Development Department  
March, 2015

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# CITY OF MAPLE VALLEY STORMWATER MANAGEMENT PROGRAM (SWMP) REPORT

Prepared on March 2015

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## I. INTRODUCTION

### I.1 Overview and Background

The *National Pollutant Discharge Elimination System and State Waste Discharge General Permit for Discharges from Small Municipal Separate Storm Sewers in Western Washington*, hereafter referred to as the Western Washington Phase II Municipal Stormwater Permit, outlines stormwater program activities and implementation milestones that municipalities must follow to comply with the Federal Clean Water Act. Phase II permits cover municipalities, including Maple Valley, with a population less than 100,000. Phase II municipalities are required to develop a Stormwater Management Program (SWMP) including planned actions/activities in the following year and actions/activities taken in the previous year to achieve compliance. The current Phase II permit was issued by the State of Washington, Department of Ecology (DOE) on August 1, 2013, and expires on July 31, 2018. The Phase II permit requires municipalities to submit annual reports to DOE by May 31<sup>st</sup> each year to document the progress toward complete program implementation. No annual report was due in 2014.

### I.2 Departmental Implementation of Responsibilities

Within the City organization, several staff members will contribute toward meeting permit requirements. Currently, the stormwater management program is primarily the responsibility of the Public Works and Community Development Department. The Public Works and Community Development Department will provide or implement, but not limited to mapping, inspection, maintenance, spill response, capital project oversight, development review, storming monitoring, a public education and outreach program effort and an Illicit Discharge Detection and Elimination (IDDE) Program, enforcement, and planning services. Ongoing support is provided by the City Manager's office, the City Clerk (records management, citizen information management, and Neighborhood Reinvestment Program) and the Parks & Recreation Department.

### I.3 Document Organization

This report comprises written documentation of the City's Stormwater Management Program (SWMP) that is required to be submitted with the Annual Report. In accordance with the Phase II Permit terms, the SWMP has been designed to reduce the discharge of pollutants to the Maximum Extent Practicable (MEP), meet All Known, Available, and Reasonable Methods of Prevention, Control and Treatment (AKART) requirements, and protect water quality. The following sections describe the actions that Maple Valley has taken, or will take, to comply with the requirements of the Phase II permit.

To aid in tracking NPDES permit requirements, this document has been organized into sections that correspond with the Special Conditions and are outlined in the Phase II Permit as follows:

- Section 2.0 - Public Education and Outreach, Special Condition S5.C.1

- Section 3.0 - Public Involvement and Participation, Special Condition S5.C.2
- Section 4.0 - Illicit Discharge Detection and Elimination (IDDE), Special Condition S5.C.3
- Section 5.0 Controlling Runoff from New Development, Redevelopment, and Construction Sites, Special Condition S5.C.4
- Section 6.0 Pollution Prevention and Operation and Maintenance for Municipal Operations, Special Condition S5.C.5
- Section 7.0 Monitoring and Assessment, Special Condition S8

Special Conditions S7 Total Maximum Daily Load (TMDLs) does not apply to the City of Maple Valley.

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## 2. PUBLIC EDUCATION AND OUTREACH S5.C.1

This section describes the permit requirements, current, and planned activities related to the Public Education and Outreach Program.

### 2.1 Permit Requirements (See permit on City website for specific elements)

Section S5.C.1 requires the following:

- Provide an 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 education program may be developed and implemented locally or regionally. The permit requires the City to:
  - Educate target audiences about stormwater problems and provide specific action they can follow to minimize the problems. To build general awareness and to effect behavior change, the City will select from the following target audiences and subject area. The appropriate BMPs will be provided:
    - ✓ General public, including school-age children and businesses
    - ✓ Engineers, contractors, developers, and land use planners
  - Create stewardship opportunities and/or partner with existing organizations to encourage residents to participate in activities such as stream teams, storm drain marking, volunteer monitoring, riparian plantings, and education activities;
  - Measure the understanding and adoption of the targeted behaviors for at least one target audience in at least one subject above, no later than February 2, 2016. The City may meet this requirement individually or as a member of regional group.

### 2.2 Current Activities (2014)

The following outlines the activities that Maple Valley implemented in 2014 to achieve the goals and objectives of a Public Education and Outreach Program.

- Maintained the City website including all necessary links, information, and BMPs for both City's IDDE and the Public Education and Outreach Program as follows:
  - Annual SWM Plan and Report
  - Natural lawn care
  - Low Impact Development (LID)
  - Puget Sound Rain Gardens
  - Scoop the Poop
  - 2009 King County Stormwater Pollution Prevention Manual: BMPs for Commercial, Multifamily, and Residential Properties
  - Department of Ecology-Washington Water

- Construction Stormwater General Permit
  - Don't Drip and Drive: Fix That Leak!
  - Construction Stormwater General Permit
  - Stormwater Education Evaluation Report
  - Allowable and prohibited discharge
  - "Puget Sound Starts Here"
  - "What is a Pollution Illicit Discharge?"
  - Storm Drain Marking Information and Opportunity
  - Car Wash Kit Program and Opportunity
  - Hotline Number for Illicit Discharge and hazardous material/oil spills
  - Proper dispose of solid and hazard waste
  - Recommended BMPs of many different kind of activities such as carpet cleaning, residential automobile repair and maintenance, landscaping activities and vegetation Management, vehicle washing, pet waste, hazard waste and dispose, residential gardening and lawn care
- Published articles related to stormwater and water quality pollution concerns in the City's quarterly newsletters
  - Displayed stormwater educational brochures and BMPs at City Hall
  - Implemented storm drain marking program
  - Provided appropriate BMPs and informational brochures related to stormwater and water pollution concerns at community meetings
  - Implemented an Adopt-a-Road Litter Pickup Program
  - Implemented a Recycling Program including promoting and assisting local residents with recycling waste disposal information
  - Distributed "How to Keep Surface Water Clean at Home and in The Yard" recommended BMP brochure to commercial stormwater facility managers and/or property owners, which is part of stormwater private inspection program
  - Partnered with ECOSS for the Incentive Spill Kit Program to distributed FREE emergency spill kits and stormwater pollution informational brochures to local business owners
  - Partnered with King County to participate in their Local Source Control Program (LSCP) including joint field investigations and providing recommended BMPs and technical assistance to property and/or business owners
  - Partnered with and supported Tahoma School District for building general public awareness and used stormwater curriculum targeting children in different grade levels
  - Informed applicants, developers, engineers, contractors, and land use planners of the design standard requirements for stormwater treatment and flow control facilities, LID principles, and erosion and sediment control during pre-applicant meetings and/or as opportunities arose
  - Participated and co-hosted workshops when stormwater and water quality were topics and provided recommended BMPs and accepted public comments for the implementation of the

### City SWMP Program

- Implemented a water quality audit program to business and/or property owners including providing appropriate educational materials and recommended BMPs
- Inspected commercial stormwater facilities and provided recommended BMPs and other educational materials to property managers and/or property owners
- Implemented a car wash kit program for fund raising events
- Tracked and maintained records including the costs of staff time related to the implementation of the Public Education and Outreach Program
- Reviewed and evaluated the existing Public Education and Outreach Program
- Evaluated the need for additional materials and subject areas
- Participated in the Stormwater Regional Outreach Forum and Meeting Participated in regional forums such as Stormwater Outreach for Regional Municipalities (STORM), Puget Sound Start Here, Stormwater quarterly meeting, NPDES coordinator meeting, Vehicle Leak meeting in an effort to maintain consistent messaging, share tools and strategies

### 2.3 Planned Activities (2015)

The following outlines the City of Maple Valley's implementation plan for 2015 to achieve the goals and objectives of the Public Education and Outreach Program:

- Continue to maintain the City's website including all necessary links, information, and brochures for the City IDDE and Public Education and Outreach Program
- Continue to publish articles related to stormwater and water quality pollution concerns in the City's quarterly newsletters
- Continue to display stormwater educational brochures and BMPs at City Hall
- Continue to provide informational brochures related to stormwater and water quality pollution concerns at community meetings as opportunities arise
- Continue to implement Adopt-a-Road Litter Pickup programs
- Continue to distribute "How to Keep Surface Water Clean at Home and in The Yard" recommended BMP brochure to commercial stormwater facility managers and/or property owners, , which is part of stormwater private inspection program
- Continue to partner with ECOSS for the City Incentive Spill Kit Program to distribute FREE emergency spill kits and stormwater pollution brochures to local business owners
- Continue to partner with King County to participate in their Local Source Control Program (LSCP) including joint field investigations and providing recommended BMPs and technical assistance to property and/or business owners as opportunities arise
- Continue to partner with Tahoma School District and a private organization to build general awareness of stormwater pollution in school age children
- Continue to build general awareness of stormwater impact to engineers, contractors, developers, and land use planners during pre-application meetings or as other opportunities arise

- Continue to implement the Storm Drain Marking Program and to create more stewardship opportunities and/or partner with existing organizations to encourage residents to participate in activities
- Continue to participate and co-host workshops when stormwater and water quality are the topics as opportunities arise. This includes providing recommended BMPs and continue to accept public comments for the implementation of the City SWMP Program
- Continue to inspect commercial stormwater facilities and provide recommended BMPs and other educational materials to property owners and/or managers
- Continue to implement the car wash kit program for local fund raising events
- Continue to keep tracks and maintain all records including the costs including staff times spending in implementing Public Education and Outreach and SWMP program
- Continue to coordinate and support Tahoma School District for continuing building general public awareness and used stormwater curriculum targeting children in different grade levels
- Continue to review and evaluate the existing Public Education and Outreach Program
- Continue to evaluate and develop the need for additional materials and subject areas
- Conduct Stormwater Evaluation as individual or as a member of a regional group to measure the understanding and adopting of the targeted behaviors for at least on targeted audience in at least on subject area as described in S5.C.1.i and ii
- Continue to participate in the stormwater regional outreach forums and meetings

#### 2.4 Lead Department and Support

The Public Works and Community Development Department will lead in implementation of the Public Education and Outreach Program with the assistance of other departments and private consultants as needed.

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### **3. PUBLIC INVOLVEMENT AND PARTICIPATION**

This Section describes the Permit requirements and current and planned activities related to the Public Involvement and Participation Program.

#### 3.1 Permit Requirements (See permit on City website for specific elements)

Section S5.C.2 of the Permit requires the City to:

- Provide ongoing opportunities for public involvement and participation through advisory councils, public hearings, watershed committees, participation in developing rate structures, or other similar activities. The City shall create opportunities for the public to participate in the decision-making processes involving the development, implementation, and update of the SWMP.
- Post on the City’s website the SWMP Plan, the annual report required under S9.A, no later than May 31st of each year. All other submittals shall be available to the public upon request.

### 3.2 Current Activities (2014):

The following outlines the activities that Maple Valley implemented in 2014 to achieve the goals and objectives of the Public Involvement and Participation Program:

- Implemented the Storm Drain Marking Program. This program involved the public to increase public awareness of stormwater pollution. The City worked with volunteers to mark storm drain catch basins with plastic curb markers, which carried the message of “Only Rain Down the Storm Drain.”
- Implemented volunteer water quality monitoring under the Lakes Management Program. The City contracted with the King County Department of Natural Resources, Water and Land Division, to monitoring water quality in Lake Lucerne, Pipe Lake, and Lake Wilderness, with the assistance of volunteers. City and King County staff were available to discuss water quality topics with citizens or volunteer groups and to provide public information
- Implemented an inter-local Agreement with the Tahoma School District and a private organization for the creation of a district-wide education curriculum focusing on the importance of clean water and stopping stormwater pollution
- Accepted public comments for the implementation of City’s Surface Water Management Plan
- Posted the most current version of Annual Report and SWMP Plan on the City’s website

### 3.3 Planned Activities (2015):

The following outlines the City of Maple Valley’s implementation plan for 2015 to achieve the goals and objectives of the Public Involvement and Participation Program:

- Continue to implement the Storm Drain Marking Program and consider creation of other opportunities for public involvement and participation as opportunities arise
- Continue to accept public comments for the implementation of City’s Surface Water Management Plan (SWMP)
- Continue to implement volunteer water quality monitoring opportunities under the Lakes Management Program as opportunities arise
- Continue to post the most current version of SWMP Plan on the City’s website
- Continue to evaluate public comments based upon the current permit requirements, the consistency with City codes and policies, and the costs and benefits

### 3.4 Lead Department and Support

The Public Works and Community Development Department will take the lead in Public Involvement activities.

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## 4. ILLICIT DISCHARGE DETECTION AND ELIMINATION

This section describes the permit requirements and current and planned activities related to the Illicit  
*City of Maple Valley*  
Stormwater Management Program

Discharge Detection and Elimination (IDDE) Program.

#### 4.1 Permit Requirements: (See permit on City website for specific elements)

Section S5.C.3 of the Permit requires the City to:

- Map the City's stormwater system on an ongoing basis. The map shall be updated periodically.
- Implement an ordinance or other regulatory mechanism to effectively prohibit non-stormwater illegal discharges and/or dumping into the City's stormwater system
- Implement an ongoing program designed to detect and identify non-stormwater discharges and illicit connections into the City's stormwater system
- Implement an ongoing program designed to address illicit discharges, including spills and illicit connections into the City's Stormwater System
- Provide appropriate training for City staff responsible for identification, investigation, termination, cleanup, and reporting of illicit discharges, including spills and illicit connection into the City's stormwater system. The City will document and maintain records of the training provided and staff trained.

#### 4.2 Current Activities (2014):

The following outlines the City of Maple Valley's implementation plan for 2014 to achieve the goals and objectives of the Illicit Discharge Detection and Elimination (IDDE) Program:

- Updated and maintained stormwater GIS map and data for the new stormwater systems permitted by the City, which were connected to the City stormwater system or did not discharge onto City's surface water
- Maintained hotline phone numbers: during business hours (425) 413-8800, after business hours (206) 391-4212 for public reporting of spills and other illicit discharges. Records were kept and action was taken as a result of these calls
- Implemented ongoing Illicit Discharge Detection and Elimination (IDDE) program, including the standard operation procedures (SOP) for spills, illicit discharge detection connection and elimination responses, and field screening methodology and investigation activities to trace the source of an illicit discharge. The City has contracted with a (CCTV) service provider for tracing the source when necessary.
- Established a training program for City staff for identification, investigation, and clean up of spill response and illicit discharge on City's surface water
- Implemented the procedure for characterizing the nature of, and potential public or environmental threat posed by, any illicit discharges found by or reported to the City
- Informed public employees, businesses, and the general public of hazards associated with illegal discharge and improper disposal of waste through our education and outreach and public involvement program. Public information notices were a part of the public education and outreach program. The use of strategies and media included publishing this information in newsletters on the City website, sending e-mail to staff providing brochures/handout during

Make a Different Day events, aquatic planting meeting events and meeting in person with targeted audiences

- Used a newly-acquired software to record citizen reports of stormwater and water quality concerns, and appropriate actions were taken
- Tracked stormwater and water quality complaints, investigations, and actions taken
- Obtained water quality trend data from volunteer Lakes Water Quality Monitoring Program and took required appropriate actions with the goals to improve water quality and eliminate illicit connections and discharges
- Partnered with King County for a Local Source Control Program (LSCP) providing on-site technical assistance to small businesses, providing appropriate handouts for the general awareness of illicit discharges and improper disposal of waste. The ultimate goal was to prevent/eliminate polluted runoff or hazards discharged into the stormwater system or onto surface water.
- Performed field screening as required per S5.3.c.i
- Documented and maintained records of all investigated spill responses and actions taken
- Provided opportunities for trainings, seminars, and workshops for City staff related to spill response and IDDE investigation
- Kept emergency spill response kits in every City-owned vehicle
- Implemented and conducted field assessment activities with at least one high priority water body including visual inspection of outfall during dry weather
- Implemented an ordinance to effectively prohibit non-stormwater and illicit discharges into the City. Enforcement was performed as necessary
- Partnered with ECOSS to provide FREE spill kit supplies and several recommended BMPs in efforts to reduce stormwater pollution. Handouts included information on the Spill Kit Incentive Program and other educational stormwater materials.

#### 4.3 Planned Activities (2015):

The following outlines the City of Maple Valley's implementation plan for the 2015 activities to achieve the goals and objectives of the Illicit Discharge Detection and Elimination (IDDE) Program:

- Continue to maintain and periodically update the stormwater GIS map
- Continue to maintain a hotline for public reporting of spills, illicit discharges and connections
- Continue to implement ongoing the Illicit Discharge Detection and Elimination (IDDE) Program including the standard operation procedures (SOP) for spill, illicit discharge detection connection and elimination response, and field screen methodology assessment activities to trace the source of a suspected illicit discharge or connection. The City has continued to contract with a (CCTV) service provider for tracing the source as necessary.
- Continue to inform public employees, businesses, and the general public of hazards associated with illegal discharge and improper disposal of waste through education and outreach and public involvement programs as opportunities arise. Continue to use of strategies and media included publishing this information in newsletters on the City's website, sending e-mail to staff

providing brochures/handout during Make a Different Day events, aquatic planting meeting events and meeting in person with targeted audiences.

- Continue to coordinate with the Maple Valley Fire Department, Police Department and the Washington State Department of Ecology (DOE) to assist with spill responses and cleaning up the site as necessary.
- Continue to use a newly-acquired software to keep track of the records related to stormwater and water quality complaints/concerns including all appropriate actions taken
- Continue to obtain and evaluate water quality trend data from volunteer Lakes Water Quality Monitoring Program and take appropriate actions as necessary with the goals to improve water quality and eliminate illicit connections and discharge
- Continue to maintain an interlocal agreement with King County for source tracing services
- Continue to document and maintain records of all investigated spill responses or actions taken
- Continue to provide appropriate training to City staff for spill response or illicit discharge and detection and elimination (IDDE). There will be a training opportunity scheduled for City's staff during this reporting period
- Continue to distribute appropriate information on illicit discharges to target audiences identified pursuant to S5.C.1 through the education and outreach and public involvement programs
- Continue to implement and conduct field screening and methods for identifying potential sources. All field screen methodology will be documented.
- Continue to keep emergency spill response kits in every City-owned vehicle
- Continue to consider a partnership with ECOSS to provide FREE emergency spill response kits, brochures, posters, and recommended BMPs to local small business owners
- Continue to conduct field inspections with King County's staff for their Local Source Control Program (LSCP) as needed to providing on-site technical assistance and education and outreach efforts to small businesses in order to prevent polluted runoff to the stormwater system.
- Continue to implement the Water Quality Audit Program including appropriate BMPs to business managers and/or property owners as opportunities arise
- Continue to implement an ordinance to effectively prohibit non-stormwater and illicit discharges

#### 4.4 Lead Department and Support

The Public Works and Community Development Department will take the lead in implementation of IDDE Program.

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## **5. CONTROLLING RUNOFF FROM NEW DEVELOPMENT, REDEVELOPMENT AND CONSTRUCTION SITES**

This section describes the permit requirements, current and planned activities related to

controlling runoff from new development, redevelopment, and construction site program.

### 5.1 Permit Requirements (See permit on City Website for specific elements)

Section S5.C.4 of the Permit requires the City to:

- Implement an ordinance or other enforceable mechanism that addresses runoff from new development, redevelopment, and construction site projects
- Implement a permitting process with plan review, inspection, and enforcement capacity to meet standards listed in (i) through (iv) of section S5 C.4b for both public and private projects
- Include provisions to verify adequate long-term operation and maintenance (O&M) of stormwater treatment and flow control BMP/facilities that are permitted and constructed pursuant to section S5 C.4b. No later than December 31, 2016, the provision will include the listed requirements specified in section S5 C.4C.
- Make available copies of the “Notice of Intent for Construction Activity” and copies of the “Notice of Intent for Industrial Activity” to representatives of proposed new development and redevelopment. The City will continue to enforce local ordinances controlling runoff from sites that are also covered by stormwater permits issued by State of Washington Department of Ecology.
- Ensure that all City staff whose primary job duties are implementing the program to control stormwater runoff from new development, redevelopment, and construction sites, including permitting, plan review, construction site inspections, and enforcement, are trained to conduct these activities. Follow up training shall be provided as needed. The City will document and maintain records of the training provided and the staff members trained.
- No later than December 31, 2016, review, revise, and make effective City’s local development-related codes, rules, or other enforceable documents to incorporate and require Low Impact Development (LID) principles and BMP. The intent of the revision shall be to make LID the preferred and commonly-used approach to site development.
- Participate with watershed-scale stormwater planning processes led by the Phase I Permittee (s)

### 5.2 Current Activities (2014):

The following outlines the City of Maple Valley’s implementation plan for the 2014 activities to achieve the goals and objectives of the Controlling Runoff from New Development, Redevelopment, and Construction Site Program:

- Conducted site inspections and applied the required enforcements for new development and redevelopment for addressing sediment & erosion control and stormwater runoff issues when necessary
- Considered to use Low Impact Development (LID) design techniques for a City’s Capital Improvement Transportation Project (CIP)
- Conducted site inspections for new City-owned stormwater facilities, and documents and maintains all inspection and maintenance records
- Provided Certified Erosion and Sediment Control (ESC) training opportunities to relevant City

staff

- Reviewed stormwater site plans for new development and redevelopment projects related to sediment & erosion control, stormwater runoff issues occurring during construction phase
- Provided copies of the “Notice of Intent for Construction Activity” and “Notice of Intent for Industrial Activity” to representatives of proposed new development and redevelopment sites
- Annually inspected all new stormwater treatment and flow control facilities permitted by the City and discharged into City’s stormwater system
- Inspected all permanent stormwater treatment, flow control facilities, and catch basins in new residential developments every 6 months until 90% of lots were constructed
- Retained and implemented current ordinances or codes including necessary enforcement action taken in both private and public construction projects
- Implemented development review and inspection standard requirements and process
- Implemented a procedure for keeping all inspection, warning letter, enforcement records. These records were kept as a hard copy version and/or electronically version (Using TrackIt Software)
- Implemented an enforcement strategy to respond to issues of non-compliance
- Contracted with Herrera Environmental Consultant for reviewing, revising current City’s Codes, rules, standards to incorporate LID Principles and/or Best Management Practices (BMPs) approach for site developments
- Participated in Watershed-Scale stormwater planning as opportunities arise

### 5.3 Planned Activities (2015):

The following outlines Maple Valley implementation plan in 2015 to achieve the goals and objectives of the program to control runoff from New Development, Redevelopment, and Construction Sites Program:

- Continue to follow the permitting process for new development and redevelopment projects related to erosion and sediment control, and stormwater pollution runoff concerns during construction
- Continue to conduct site inspections for new development and redevelopment projects related the proper installation, and maintenance of stormwater water system during construction
- Continue to coordinate with Herrera Environmental Consultant for the reviews and revisions of City’s codes, rules, and standards to ensure that LID can be used as the preferred and commonly-used approach to site developments as it is determined feasibilities
- Continue to conduct site inspections for new City-owned stormwater facilities including catch basins, flow control and water quality structures
- Continue to keep records of new City-owned stormwater facility inspection and maintenance results
- Continue to provide necessary certified erosion and sediment control (ESC) training and/or other training opportunities related to site plan reviews and inspections of new and redevelopment project for relevant City staff

- Continue to keep track of all City staff training opportunity records related to control stormwater and sediment runoff of new and re-development site
- Continue to review stormwater site plans for new development and redevelopment projects. The records of these site plan reviews and approvals will be documented.
- Continue to provide copies of the “Notice of Intent for Construction Activity” and “Notice of Intent for Industrial Activity” to representatives of proposed new development and redevelopment when applicable
- Continue to inspect permanent stormwater treatment, flow control facilities, and catch-basins in new residential developments until 90% of the lots are constructed
- Continue to keep all records of enforcement actions taken including, but not limited to inspection reports, warning letters, notices of violation, maintenance inspections and activities
- Implement enforcement strategies to respond to issues of non-compliance
- Continue to participate in watershed-scale stormwater planning as opportunities arise

#### 5.4 Lead Department and Support

The Public Works and Community Development Department will take the lead in addressing control of runoff from new and redeveloped properties including reviewing single family residential permits for compliance with this element.

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## **6. POLLUTION PREVENTION AND OPERATION AND MAINTENANCE FOR MUNICIPAL OPERATIONS**

This section describes the permit requirements, programs, and planned activities related to Pollution Prevention and Operation and Maintenance for Municipal Operations.

### 6.1 Permit Requirements (See permit on City website for specific elements)

Section **S5.C.5** of the Permit requires the following from the City:

- Implement an operations and maintenance (O&M) program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations
- Implement maintenance standards that are as protective, or more protective, of facility function than those specified in 2012 Stormwater Management Manual for Western Washington
- Perform annual inspection of all municipally owned or operated permanent stormwater treatment and flow control BMPs/facilities and taking appropriate maintenance actions in accordance with the adopted maintenance standards
- Perform spot checks of potentially damaged permanent stormwater treatment and flow control BMPs/facilities after major storms (24-hour storm event with a 10-year or greater recurrence interval rainfall) storm events. If spot checks indicate widespread damage/maintenance needs,

inspect all stormwater treatment and flow control BMPs/facilities that may be affected. Conduct repairs or take appropriate maintenance action in accordance with maintenance standards established above, based on the results of the inspections.

- Inspect all catch-basins and inlets owned or operated by the City at least once no later than August 1, 2017, and every two years thereafter; may be applied to all or portions of the system. Clean catch-basins if the inspection indicates cleaning is needed to comply with maintenance standards established in the 2012 Stormwater Management Manual for Western Washington.
- Implement practices, policies, and procedures to reduce stormwater impacts associated with runoff from all lands owned or maintained by the City and road maintenance activities under functional control of the City
- Implement an on-going training program for employees of the City whose construction, operations, or maintenance job functions may impact stormwater quality. Follow-up training shall be provided as needed to address changes in procedures, techniques, or requirements. The City shall document and maintain records of training and the staff provided.
- Implement a Stormwater Pollution Prevention Plan (SWPPP) for all heavy equipment maintenance or storage yards and material storage facilities owned or operated by the City
- Maintain records of inspections and maintenance or repair activities conducted by the City

## 6.2 Current Activities (2014)

The following outlines the City of Maple Valley implementation plan in 2014 to achieve the goals and objectives of Pollution Prevention and Operation and Maintenance Program:

- Annually inspected City-owned stormwater treatment and flow control facilities. Timely cleaning and repairs were performed.
- Inspected City-owned catch basins and cleaned at the rate satisfied permit requirements
- Documented and maintained records of all inspection and maintenance activities
- Implemented ongoing monthly street sweeping for streets owned and maintained by the City to reduce pollutants in discharges into stormwater and surface water system
- City staff participated in meetings and seminars related to the reduction of stormwater impact associated with land or road maintenance owned and maintained by the City
- Developed and implemented a Stormwater Pollution Prevention Plan (SWPPP) for the City's heavy equipment and material maintenance storage facility
- Implemented established practices, policies, procedures to reduce runoff from all lands owned and maintained by the City such as streets, parking lots, parks, buildings, open space, and maintenance facilities

## 6.3 Planned Activities (2015):

The following outlines the City of Maple Valley's implementation plan in 2015 to achieve the goals and objectives of Pollution Prevention and Operation and Maintenance Program:

- Continue to conduct spot checks potentially damaged permanent treatment and flow control facilities after major storm events (24 hour storm event with a 10 year or greater recurrence

interval) as necessary

- Continue to inspect and maintain inspection records of catch-basins, and other City owned stormwater flow control and water quality facilities
- Continue to perform timely maintenance for catch-basins, City-owned stormwater flow control and water quality facilities
- Continue to use a newly acquired software as a primary system to keep track of SWM facility inspection and maintenance records
- Continue to implement a Stormwater Pollution Prevention Plan (SWPPP) for the City's heavy equipment and material maintenance storage facilities
- Continue to provide training opportunities for relevant staff whose primary duties are related stormwater construction, maintenance, and inspection activities. All provided training opportunities and trained staff records will be kept.
- Continue ongoing monthly street sweeping program
- Continue to have City staff participate in meetings and seminars related to the reduction of stormwater impact associated to land or road maintenance owned and maintained by the City

#### 6.4 Lead Department and Support

The Public Works and Community Department, with the corporation of the Parks & Recreation Department, will take the lead in addressing Operations and Maintenance Requirements.

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## 7. MONITORING AND ASSESSMENT

This section describes the permit requirements and planned activities related to water quality monitoring and assessment.

### 7.1 Permit Requirements

- In each annual report, the City will provide a description of stormwater monitoring or stormwater related studies conducted by the City during the report period. However, the description is not required if the City participates in the Regional Stormwater Management Program (RSMP).
- No later than December 1, 2013, the City would notify DOE in writing which of the two options for status and trend monitoring as described in current permit requirements the City selects to carry out during this permit cycle
- No later than December 1, 2013, the City would notify DOE in writing which of the two options as described in current permit requirements for effectiveness studies the City selects to carry out during this permit cycle.
- Beginning on August 15, 2014, the City would annually pay into a collective fund to DOE

for implementation of the RSMP Source Identification Information Repository (SIDIR)

## 7.2. Current Activities (2014)

The following outlines the City of Maple Valley's implementation plan in 2014 to achieve the goals and objectives of Monitoring and Assessment;

- Paid (contributed) into collective fund to implement Regional Stormwater Monitoring Program (RSMP). The City has selected Status and Trends Monitoring Option#1 & Effective Studies Option#1
- Paid (contributed) into collective fund to implement Regional Stormwater Monitoring Program (RSMP) for Source Identification Information Repository (SIDIR)
- Participated in cost-sharing for Regional Stormwater Monitoring Program (RSMP) for status and trends monitoring
- Participated in cost-sharing for Regional Stormwater Monitoring Program (RSMP) for Effectiveness Studies

## 7.3. Planned Activities (2015):

- Through RSMP, conduct sediment chemistry, mussel, and bacteria monitoring according to Ecology – approved QAPPs Marine Nearshore Status and Trends Monitoring
- Continue to pay (contribute) into collective fund to implement Regional Stormwater Management Program (RSMP) for chosen status and trends monitoring Option#1 & Effective Studies Option#1
- Continue to pay (contribute) into collective fund to implement Regional Stormwater Management Program (RSMP) for chosen Source Identification Information Repository (SIDIR)
- Participate in cost-sharing for Regional Stormwater Monitoring Program (RSMP) for status and trends monitoring
- Participate in cost-sharing for Regional Stormwater Monitoring Program (RSMP) for Effectiveness Studies

## 7.4 Lead Department and Support

The Public Works and Community Development Department will take the lead in implementation of Monitoring and Assessment Program.

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## 8. CONCLUSION

This SWMP has been prepared to demonstrate compliance with the requirements of the NPDES Phase II Permit. The implementation information indicates planned activities. This SWMP will be updated annually to reflect progress with implementing the stormwater management program components required for compliance with the Phase II Permit.

There are many specific requirements that the City needs to accomplish to comply with the NPDES Phase II Permit. This SWMP summarized the City's compliance with the NPDES Phase II requirements. The Public Works Department greatly encourages the citizens and businesses of Maple Valley to review this SWMP and provide feedback to the City. This SWMP serves the City by improving the City stormwater quality and ultimately the health of Puget Sound waters.

The key contact person at the City is:

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