

## Section 7—SWM Program Summary and Implementation



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The City's future SWM Program needs to maintain regulatory compliance, fulfill its other stormwater-related obligations and address local SWM Program priorities. The City's future SWM Program also needs to include the recommended maintenance and capital activities, as presented in Sections 4 and 5, respectively. By integrating, prioritizing and funding the proposed activities for regulatory compliance with the proposed capital projects, the City's updated CSWM Plan will be effectively implemented.

### Regulatory Compliance

#### NPDES Phase II Municipal Stormwater Permit

Documentation of the City's compliance activities is organized in accordance with the five components enumerated below. Current and past compliance activities are summarized in its 2007, 2008, and 2009 Annual Reports, which are posted on the City website and are available for review at City Hall. For each of the five regulatory compliance elements, planned future compliance activities are outlined in the City's 2009 Stormwater Management Program and summarized in Section 6 together with future requirements for TMDLs, Monitoring, and Reporting.

#### Phase II Permit Compliance Activities

##### 1. Public Education and Outreach

The City will continue the development and implementation of its public education and outreach program by refining education activities based on survey results. The emphasis of the City's educational activities will be proper vehicle washing, conducting a follow up survey to measure program effectiveness, continuing to offer rain barrels and compost bins at the Spring Garden Fair, and record keeping of activities for the purposes of annual reporting.

##### 2. Public Involvement and Participation

The City plans to continue its ongoing public involvement and participation strategies, including creating opportunities for public involvement and community feedback, and posting and responding to comments on this CSWM Plan.

##### 3. Illicit Discharge Detection and Elimination

The City intends to build upon existing IDDE activities by developing procedures, conducting field assessments of high priority receiving waters, tracing and removing sources as identified in the field, continuing to update the stormwater system map, conducting staff training, providing public education, and developing activity tracking procedures.

##### 4. Controlling Runoff from New Development, Redevelopment and Construction Sites

The City will need to continue and update its ongoing development review/inspection program that includes consistent application of development standards, conducting permitting processes, ensuring long-term operations and maintenance of facilities, providing



construction inspection/enforcement, as well as staff training, recordkeeping and reporting. The City updated its code to adopt the 2009 KCSWDM and its associated maintenance standards, and LID requirements; however, the City is considering adopting the 2004 Ecology Manual.

## 5. Pollution Prevention and Operations and Maintenance for Municipal Operations

The City will continue to emphasize maintenance of its infrastructure by building upon and expanding its prior accomplishments including facility and catch basin inspections and facility maintenance in accordance with the updated maintenance standards required in the Phase II Permit. Other areas that the City will focus on for 2010 include reducing stormwater impacts from municipal operations, developing and implementing a SWPPP for its maintenance facility, and enhancing staff training, recordkeeping and cost tracking.

## 6. Preparing for Future Monitoring

Under the existing Phase II Permit the City is required to prepare for future stormwater outfall and program effectiveness monitoring. It is likely in the next permit term (beginning in 2012), that the City will be required to implement a new outfall monitoring program. (These monitoring requirements will likely be similar to those already in place for NPDES Phase I permittees with the exception of BMP effectiveness monitoring.) It is anticipated that this monitoring program will involve an increase in the City's investment in staff time and resources for equipment purchase, installation, sample collection, lab analyses, data analysis, recordkeeping, and annual reporting.

## 7. Annual Reporting and Status of LID

Under the City's existing Phase II Permit, annual reports must be submitted by March 31<sup>st</sup> each year for compliance activities occurring in the previous calendar year.

Pursuant to the Phase II Permit Modification issued June 17, 2009, no later than March 31, 2011, the City will also need to conduct an evaluation and submit a summary of identified barriers to the use of LID and measures to address barriers. This report is to include currently available LID practices that can be reasonably implemented within the Permit term, and a list of potential or planned non-structural SWM actions and/or LID techniques that the City will undertake to prevent stormwater impacts, with schedules, goals and metrics to identify, promote, and measure LID use.



*Roadside ditch on NE180th Street to be converted to a "rain garden" for water quality treatment as part of the "Lake Leota and NE 180<sup>th</sup> Street CIP."*

### Compliance with Phase II Permit Requirements for SWM Maintenance

The City's existing operations and maintenance program addresses many of the requirements of the Permit and is close to meeting its Phase II Permit compliance goals. In some cases, small changes are necessary to update existing standards or activities. In a few areas, there are new activities that the City will need to perform to fully address the requirements and targeted due dates required for compliance with the Phase II Permit.

Specific areas needing attention for regulatory compliance include:

- Adopting and implementing updated maintenance standards consistent with the 2005 Ecology Manual.
- Developing and implementing a nutrient and integrated pest management plan and facilities maintenance manual.
- Developing and implementing on-going staff training program.
- Developing and implementing a SWPPP for the City's maintenance facility.
- Developing and implementing a private facility maintenance enforcement program.

### Water Quality Monitoring

The City's SWM Program also includes an ambient Water Quality Monitoring Program that has been in place since 2000. This is a discretionary activity that supports the City's efforts to gain a better understanding of current conditions and to track changes in its natural drainage systems. The City's existing Water Quality Monitoring Program is presented in Appendix F.



*The City is responsible for maintaining roadside ditches.*

### Low Impact Development and Sustainability

In July 2007, the City was actively working on updating and completing their sustainability study with involvement from the Citizen Advisory Panel. The City gathered information on implementing LID standards, by looking at LID examples from other municipalities throughout the Pacific Northwest. The City is strongly interested in, and actively pursuing, the creation of sustainable land-use standards and LID drainage design standards. These are likely to be implemented in the near future by updating their zoning codes and design standards.

## Capital Improvement Plan

The City's recommended capital projects have an estimated cost of \$6.4M. The top ranked project addressed the flooding on Woodin Creek with a cost estimate of \$2.6M. The nine other capital projects total \$3.8M, with an average cost of about \$643K. Priorities for funding and construction will be determined by the City Council.

## Conclusion

This updated Comprehensive Stormwater Management Plan for the City of Woodinville provides an assessment of existing drainage conditions within the City, lists activities needed for regulatory compliance and presents an updated prioritized list of capital projects and costs for future funding and implementation.

Areas within the City's SWM Program that need enhancement have been identified, including activities to achieve regulatory compliance by the end of 2011. An updated CIP plan presents prioritized CIP projects and associated costs for future funding and implementation.



*“Cottonwood Trees at 14300 NE Wood-Duvall Road CIP” addresses these two large cottonwood trees whose root systems are intruding on a nearby Type 2 catch basin and conveyance pipe.*