CITY OF BLACK DIAMOND

STORMWATER MANAGEMENT PROGRAM PLAN (SWMP PLAN)

2015 UPDATE

PREPARED BY
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LIST OF ACRONYMS AND ABBREVIATIONS

AKART	All Known and Reasonable Treatment
BMP	Best Management Practices
CESCL	Certified Erosion and Sediment Control Lead
DOE	Department of Ecology
GIS	Geographic Information Systems
IDDE	Illicit Discharge Detection and Elimination
LID	Low Impact Development
MEP	Maximum Extent Practicable
MPD	Master Planned Development
MS4	Municipal Separate Storm Sewer System
NPDES	National Pollutant Discharge Elimination System
O&M	Operations and Maintenance
RSMP	Regional Stormwater Management Program
SIDIR	Source Identification Information Repository
SWMMWW	Stormwater Maintenance Manual for Western Washington
SWMP	Stormwater Management Program
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load

THIS PLAN IS BASED ON THE REQUIREMENTS OUTLINED IN THE WESTERN WASHINGTON PHASE II MUNICIPAL STORMWATER PERMIT. MUCH OF THE LANGUAGE INCLUDED IN THIS DOCUMENT DESCRIBING PERMIT REQUIREMENTS HAS BEEN TAKEN DIRECTLY FROM THIS PERMIT AND HAS BEEN SUMMARIZED FOR EASE OF THE READER.

FOR COMPLETE REQUIREMENTS AND DETAILS, PLEASE REFER TO SECTION S5.C OF THE WESTERN WASHINGTON PHASE II MUNICIPAL STORMWATER PERMIT FROM THE DEPARTMENT OF ECOLOGY.

SECTION 1 – INTRODUCTION

1.1 INTRODUCTION

This document constitutes the City of Black Diamond's Stormwater Management Program (SWMP) Plan as required under Condition S5 of the Western Washington Phase II Municipal Stormwater Permit (the Permit). In addition to the City's permit, the SWMP includes the Total Maximum Daily Load (TMDL) requirements on Lake Sawyer as published in the TMDL document 09-10-053.

The purpose of the SWMP Plan is to detail actions that the City of Black Diamond has taken and will take to maintain compliance with conditions in the permit. This SWMP Plan will be an attachment to the *Annual Report Form for Cities, Towns, and Counties* which is required to be submitted to the Department of Ecology (DOE) by March 31 of each year.

The City's SWMP is intended to reduce the discharge of pollutants from the City's Municipal Separate Storm Sewer System (MS4) to the Maximum Extent Practicable (MEP), meet Washington State's All Known and Reasonable Treatment (AKART) requirements, and protect water quality. This goal is accomplished by the inclusion of all Permit SWMP components, minimum measures, and implementation schedules into the City's SWMP.

In compliance with Permit requirements, where the City is already implementing actions or activities called for in this document, the City will continue those actions or activities regardless of the schedule called for in this document. The City will adapt these actions or activities as required by Permit deadlines and as City staff measures the effectiveness of current actions or activities.

The City now is active in 6 areas of permit activity including:

- Monitoring the MS4 and reporting to DOE
- Public education and outreach
- Public involvement and participation
- Illicit Discharge Detection and Elimination

- Controlling runoff from new development, redevelopment and construction sites
- Municipal operations and maintenance

SECTION 2 –MONITORING, REPORTING AND ASSESSMENT

2.1 PERMIT REQUIREMENTS AND DATES

Section S5.A, S8, and S9 of the Western Washington Phase II Municipal Stormwater Permit requires the City to develop, monitor, and report the City's Stormwater Management Program (SWMP). The SWMP shall be designed to reduce the discharge of pollutants from the City's Municipal Separate Storm Sewer System (MS4) to the maximum extent practicable and to protect water quality. The monitoring, reporting and assessment requirement helps keep the City on track with Best Management Practices (BMPs) to reduce the discharge of pollutants to stormwater. Specific dates are outlined below:

- Notify Department of Ecology (DOE) in writing the City's decision whether or not to participate in the Regional Stormwater Management Program (RSMP) status and trends monitoring, at an annual cost of $1,023, by December 1, 2013. Participation in this monitoring meets City requirements for status and trends monitoring. Annual payments will begin August 15, 2014. (Completed December 2013)
- Notify DOE in writing the City's decision whether or not to participate in the RSMP effectiveness studies, at an annual cost of $1,705, by December 1, 2013. Participation in this study meets City requirements for effectiveness studies. Annual payments will begin August 15, 2014. (Completed December 2013)
- The City shall pay into a collective fund to implement the RSMP Source Identification Information Repository (SIDIR), at an annual cost of $158, beginning August 15, 2014. (Completed December 2013)

2.2 CURRENT ACTIVITIES

The current city activities associated with Monitoring and reporting include:

- Submit the *Annual Report Form for Cities, Towns, and Counties* which is intended to summarize the City's compliance with the conditions of the Permit. The annual report shall be submitted by March 31 of each calendar year covering the previous calendar year.
- Prepare written documentation of the SWMP, now called the SWMP Plan, and update at least annually for submittal with the City's annual reports to DOE.
- Include with the annual report, notification of any annexations, incorporations, or jurisdictional boundary changes resulting in an increase or decrease in the City's geographic area of permit coverage during the reporting period.

- Track the number of inspections, official enforcement actions and types of public education activities for inclusion in the City's annual reports to DOE.
- Provide a description of any stormwater monitoring or studies conducted by the City during the reporting period for inclusion in the City's annual reports to DOE. The City is not required to report on monitoring or studies conducted by the Regional Stormwater Monitoring Program (RSMP).
- Track the cost or estimated cost of development and implementation of the SWMP.
- Coordinate, as necessary, with other entities covered under a municipal stormwater National Pollutant Discharge Elimination System (NPDES) permit to encourage coordinated stormwater-related policies, programs and projects within adjoining or shared areas.
- Rain garden monitoring.
- The Development Agreement for the major Master Planned Developments requires extensive water quality monitoring by the developer before, during and after construction; including a yearly review by the Water Quality Review Committee.

2.3 PLANNED ACTIVITIES

The City will continue with the current monitoring and reporting activities in 2015.

SECTION 3 –PUBLIC EDUCATION AND OUTREACH

3.1 PERMIT REQUIREMENTS AND DATES

Section S5.C.1 of the Western Washington Phase II Municipal Stormwater Permit requires the City to include an education program designed to reduce or eliminate behaviors and practices that cause or contribute to adverse stormwater impacts. No later than February 2, 2016, the City shall measure the understanding and adoption of targeted behaviors for at least one target audience (either the General Public and Businesses; or Engineers, Contractors, Developers and Land Use Planners).

3.2 CURRENT ACTIVITIES

The City has educated the public through stormwater articles in the city newsletter, posting educational materials on the City website, handing out materials at City sponsored events, workshops to train City staff and elected officials, and meeting with businesses and owners of private stormwater systems. The current City activities associated with Public Education and Outreach include:

- Educating the public about the need of the stormwater utility and the collaborative effort needed from everyone in the City to improve stormwater quality within the City.
- Training for City employees regarding illicit discharges.
- Meeting with businesses and the general public about the hazards associated with illicit discharges and improper disposal of waste.
- Distribute illicit discharge information to target audiences through individual meetings.
- Continue to track and maintain records of public education and outreach activities.
- Distribute spill kits to businesses and instruct businesses how to use them.

3.3 PLANNED ACTIVITIES

The City has the following goals for continued Permit compliance in public education and outreach:

- Receive feedback from the public on illicit discharge education efforts and evaluate understanding of target behaviors via a stormwater knowledge survey.
- Summarize the public education activities in the annual report.
- Educate the general public (including school age children) and businesses (including home-based and mobile businesses) on:
    - General impacts of stormwater on surface waters.

    - Impacts from impervious surfaces.
    - Impacts of illicit discharges and how to report them.
    - Low Impact Development (LID) principles and LID Best Management Practices (BMPs).
    - Opportunities to become involved in stewardship activities.
    - The City may use direct mailings (one per year), and/or articles in the City newsletter (two per year).
- Encourage behavior change from the general public (including school age children) and businesses (including home-based and mobile businesses) by utilizing education efforts to address any or all BMPs as outlined below:
    - Use of storage of automotive chemicals, hazardous cleaning supplies, carwash soaps and other hazardous materials.
    - Equipment maintenance.
    - Prevention of illicit discharges.
    - Yard care techniques protective of water quality.
    - Use and storage of pesticides and fertilizers and other household chemicals.
    - Carpet cleaning and auto repair and maintenance.
    - Vehicle, equipment and home/building maintenance.
    - Pet waste management and disposal.
    - LID principles and LID BMPs.
    - Stormwater facility maintenance.
    - Dumpster and trash compactor maintenance.

SECTION 4 – PUBLIC INVOLVEMENT AND PARTICIPATION

4.1 PERMIT REQUIREMENTS AND DATES

Section S5.C.2 of the Western Washington Phase II Municipal Stormwater Permit requires the City to provide ongoing opportunities for public involvement. The City will comply with applicable state and local public notice requirements in developing elements of the Stormwater Management Program (SWMP). The annual report and updated SWMP Plan are required to be published on the City's website by May 31 of each year.

4.2 CURRENT ACTIVITIES

The current compliance activities associated with public involvement and participation include:

- The City has posted the SWMP Plan and annual report on the City website.
- Provide opportunities for public involvement in the review of the stormwater comprehensive plan updates, SWMP Plan updates, changes to the stormwater utility charges, or other stormwater codes or similar environmental policies at the early consideration stages at the Public Works Committee level.
- Provide opportunities for public involvement and comment in the consideration of the SWMP Plan by holding a public hearing prior to adoption.
- Review the SWMP Plan with the Public Works Committee and receive public comments in a public hearing prior to adoption.
- Make the SWMP Plan, the annual report, and all other submittals required by the Phase II Permit, available to the public.
- Post the updated SWMP and the annual report on the City's website.

4.3 PLANNED ACTIVITIES

The City will continue with the public involvement and participation activities each year for the SWMP and annual report.

SECTION 5 – ILLICIT DISCHARGE DETECTION AND ELIMINATION

5.1 PERMIT REQUIREMENTS AND DATES

Section S5.C.3 of the Western Washington Phase II Municipal Stormwater Permit requires the City to maintain an ongoing program designed to prevent, detect, characterize, trace and eliminate illicit connections and illicit discharges into the Municipal Separate Storm Sewer System (MS4). Specific program components are outlined below:

- Maintain a MS4 map that shall be periodically updated and shall include following information:
  - Known MS4 outfalls.
  - Receiving waters, other than ground water.
  - Stormwater treatment and flow control Best Management Practices (BMPs)/facilities owned or operated by the City.
  - Tributary conveyances to all known outfalls with a 24-inch nominal diameter or larger, or an equivalent cross-sectional area for non-pipe systems, mapping the following attributes:
    - Tributary conveyance type, material, and size where known.
    - Associated drainage areas.
    - Land use.
  - All connections to the MS4 authorized or allowed by the Permittee after February 16, 2007.
  - Geographic areas served by the MS4 that do not discharge stormwater to surface waters.
  - Upon request, make all maps available electronically to the Department of Ecology (DOE).
  - Upon request, and to the extent appropriate, provide mapping information available to federally-recognized Indian Tribes, municipalities, and other Permittees at a reasonable cost.
- Implement an ordinance or other regulatory mechanism to effectively prohibit non-stormwater, illicit discharges into the City's MS4 to the maximum extent allowable under state and federal law by February 2, 2018. The ordinance or regulatory mechanism shall address:
  - Allowable discharges (as outlined in S5.C.3.b.i of the National Pollutant Discharge Elimination System (NPDES) Permit).
  - Conditionally allowable discharges (as outlined in S5.C.3.b.ii of the NPDES Permit).
  - Further address any category of allowable or conditionally allowable discharges if the discharges are identified as significant sources of pollutants to waters of the State.
  - Escalating enforcement procedures and actions for repeat offenders.

- A compliance strategy that includes informal compliance actions such as public education and technical assistance as well as the enforcement provisions of the ordinance or other regulatory mechanism. To implement an effective compliance strategy, the ordinance or other regulatory mechanism may need to include the application of operational and/or structural source control BMPs for pollutant generating sources associated with existing land uses and activities where necessary to prevent illicit discharges and the maintenance of stormwater facilities which discharge into the MS4 in accordance with maintenance standards outlined in the NPDES Permit where necessary to prevent illicit discharges.

- Implement an ongoing program designed to detect and identify non-stormwater discharges and illicit connections into the City's MS4. The program shall include:
  - Procedures for conducting investigations, including field screening and methods for identifying potential sources implementing a field screening methodology appropriate to the characteristics of the MS4 and water quality concerns. Screening for illicit connections may be conducted using: *Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments,* Center for Watershed Protection, October 2004, or another methodology of comparable or improved effectiveness. The City shall document the field screening methodology in the relevant annual report. Field screening for at least 40% of the MS4 shall be complete no later than December 31, 2017 and average 12% each year thereafter.
  - A publicly listed and publicized hotline or telephone number for public reporting of spills and other illicit discharges (360-886-5700 during business hours; 253-333-5555 after hours).
  - An ongoing training program on the identification of an illicit discharge and/or connection, and on the proper procedures for reporting and responding to the illicit discharge and/or connection, for all municipal field staff, who, as part of their normal job responsibilities, might come into contact with or otherwise observe an illicit discharge and/or illicit connection to the MS4. Follow-up training shall be provided as needed. City shall document and maintain records of the trainings provided and the staff trained.
  - Informing public employees, businesses, and the general public of hazards associated with illicit discharges and improper disposal of waste.

- Implement an ongoing program designed to address illicit discharges, including spills and illicit connections, into the MS4. The program shall include:
  - Procedures for characterizing the nature of, and potential public or environmental threat posed by, any illicit discharges found or reported to the City. Procedures shall address the evaluation of whether the discharge must be immediately contained and steps to be taken for the containment of the discharge.

- Procedures for tracing the source of an illicit discharge; including visual inspections, and when necessary, opening manholes, using mobile cameras, collecting and analyzing water samples, and/or other detailed inspection procedures.
- Procedures for eliminating the discharge; including notification of appropriate authorities; notification of the property owner; technical assistance; follow-up inspections; and implementation and use of the compliance strategy mentioned above, including escalating enforcement and legal actions if the discharge is not eliminated.
- The City must meet the following timelines:
  - Immediately respond to all illicit discharges, including spills, which are determined to constitute a threat to human health, welfare, or the environment by taking appropriate action to correct or minimize the threat to human health, welfare, and/or the environment; notifying DOE (425-649-7000 or 360-407-6300) and other appropriate spill response authorities within 24 hours of learning about the illicit discharge or spill; and immediately report spills or discharges of oils or hazardous substances to DOE and the Washington Emergency Management Division (1-800-258-5990).
  - Investigate (or refer to the appropriate agency with the authority to act) within 7 days any complaints, reports, or monitoring information that indicates a potential illicit discharge.
  - Initiate an investigation within 21 days of any report or discovery of a suspected illicit connection to determine the source of the connection, the nature and volume of discharge through the connection, and the party responsible for the connection.
  - Upon confirmation of an illicit connection, use the compliance strategy in a documented effort to eliminate the illicit connection within 6 months. All known illicit connections to the MS4 shall be eliminated.

5.2 CURRENT ACTIVITIES

The City currently implements activities and programs that meet Permit requirements. The current compliance activities associated with the above Permit requirements include:

- Through Ordinance 09-917, city staff has the ability to intervene and stop illicit discharges, to get involved to educate those that pollute unknowingly and follow up with additional enforcement actions if compliance is not afforded.
- City staff responsible for identification, investigation, termination, cleanup, and reporting of illicit discharges, including spills and illicit connections, shall be trained to conduct these activities. Follow-up training shall be provided as needed to address changes in procedures, techniques, requirements or staffing. The training provided and staff trained shall be documented. Four Public Works staff members received Illicit Discharge Detection and Elimination (IDDE) training on May 9, 2013.

- Continue to respond to reported illicit discharge reports and documenting the actions taken to eliminate them.
- Continue to follow up on hotline illicit discharge tips.
- Update, as needed, the MS4 maps, highlighting those areas that have higher probability of illicit discharges or connections to the MS4.
- Continue with the primary focus of the City's IDDE program, which involves individual meetings with business owners and those responsible for private stormwater system maintenance.
- Implement the City IDDE program to detect and stop illicit discharges to the City's MS4 by:
    - Characterizing the nature of illicit discharges
    - Tracing the source
    - Removing the source
    - Educating those responsible
    - Enforcing the City's code to stop illicit discharges

5.3 PLANNED ACTIVITIES

The City will look at Ordinance 09-917 to make sure it captures new Permit requirements in regards to illicit discharges, specifically addressing escalating enforcement procedures and actions, and implementing a compliance strategy.

SECTION 6 – CONTROLLING RUNOFF FROM NEW DEVELOPMENT, REDEVELOPMENT AND CONSTRUCTION SITES

6.1 PERMIT REQUIREMENTS AND DATES

Section S5.C.4 of the Western Washington Phase II Municipal Stormwater Permit requires the City to implement and enforce a program to reduce pollutants in stormwater runoff to the City's Municipal Separate Storm Sewer System (MS4) from new development, redevelopment and construction site activities. Specific program components are outlined below.

- The City will continue with a program to reduce pollutants in stormwater runoff from new development, redevelopment and construction site activities. This program shall be applied to all sites as determined by Section 3 of Appendix 1 of the Permit. The program shall apply to private and public development, including new roads.
- The City of Black Diamond has adopted the Department of Ecology (DOE) 2005 Stormwater Maintenance Manual for Western Washington (SWMMWW) to address runoff from new development, redevelopment, and construction site projects in conformance with Permit requirements. In order to comply with new requirements regarding site planning requirements; Best Management Practice (BMP) selection criteria; BMP design criteria; BMP infeasibility criteria; Low Impact Development (LID) competing needs criteria; and BMP limitations, the City should adopt the DOE 2012 SWMMWW. Adoption and implementation of the DOE 2012 SWMMWW will meet the requirements of the Permit. The mechanism to meet these requirements shall be in place by December 31, 2016.
- The City shall have the legal authority in place by December 31, 2016, through the approval process for new development and redevelopment, to inspect and enforce maintenance standards for private stormwater facilities that discharge to the City's MS4.
- Before December 31, 2016, the City shall review, revise and make effective local development-related codes, rules, standards, or other enforceable documents to incorporate and require LID principles and LID BMPs as DOE has determined LID as the preferred and commonly-used approach to site development. The revisions are designed to minimize impervious surfaces, native vegetation loss, and stormwater runoff in all types of development situations.
- Include with the annual report, due March 31, 2017, a summary of a review and revision process in regards to requiring LID principles and LID BMPs, considering the range of issues outlined in the document, *Integrating LID into Local Codes: A Guidebook for Local Governments* published by the Puget Sound Partnership in 2012. The summary shall be organized as follows:

    - Measures to minimize impervious surfaces;
    - Measures to minimize loss of native vegetation; and
    - Other measures to minimize stormwater runoff.
- Participate in watershed-scale stormwater planning (WRIA 9) led by King County. As needed and as appropriate, the City shall:
    - Provide existing water quality and flow records.
    - Provide existing and future land use and zoning maps to facilitate land cover projections.
    - Participate in the development of strategies to prevent future impacts and address existing impacts.
    - Provide monitoring locations.

6.2 CURRENT ACTIVITIES

The City code currently implements the majority of the activities and programs to meet Permit requirements. The current compliance activities associated with the above Permit requirements include:

- The City review and inspection staff will review the DOE 2012 SWMMWW.
- The City conducts construction and stormwater site inspections during the pre-construction and construction phases.
- The City has implemented a permitting process with plan review, inspection and enforcement capability for both private and public projects for compliance with the 2005 SWMMWW and the Master Planned Development (MPD) agreements. This program applies to all sites as determined by Section 3 of Appendix 1 of the Permit.
- The City reviews stormwater site plans for proposed development activities.
- The City inspects, prior to clearing and construction, all known development sites that have a high potential for sediment transport.
- The City inspects all known permitted development sites during construction to verify proper installation and maintenance of required erosion and sediment controls. The City will enforce as necessary based on the inspection.
- The City inspects all permitted development sites upon completion of construction and prior to final approval or occupancy to ensure proper installation of permanent stormwater controls such as stormwater facilities and structural BMPs. Also, the City will verify a maintenance plan is completed and responsibility for maintenance is assigned. Enforcements will be made, as necessary, based on the inspection.
- The City must perform at least 80% of scheduled inspections in order to achieve Permit compliance. Staff schedules all inspections through the City's PermitTrax software and records of inspections are maintained in PermitTrax by inspectors. Routine inspections not set in PermitTrax will be tracked separately by Public Works maintenance staff.

- The City implements an enforcement strategy to respond to issues of non-compliance.
- The City implements a long-term operations and maintenance (O&M) program for private post-construction stormwater facilities and BMPs.
- Annual inspections (reduced if the City provides records and/or statements to DOE justifying a reduced schedule for specific facilities) of all stormwater treatment BMPs/facilities that were permitted by the City, including those permitted since 2007.
- Inspections of all permanent stormwater treatment and flow control BMPs/facilities and catch basins in new residential developments every six months until 90% of the lots are constructed (or when construction is stopped and the site fully stabilized) to identify maintenance needs and enforce compliance with maintenance standards as needed.
- Enforceable mechanism in place that clearly identifies the party responsible for maintenance, requires inspection of facilities, and establishes enforcement procedures.
- The City ensures that all staff responsible for 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. The City has a Certified Erosion and Sediment Control Lead (CESCL) on staff.
- Copies of the DOE's "Notice of Intent for Construction Activity" and "Notice of Intent for Industrial Activity" are available to representatives of proposed new development and redevelopment.
- Activities for the "Controlling Runoff from New Development, Redevelopment and Construction Sites" component of the annual report will be summarized annually, beginning in the annual report due March 31, 2015.
- In addition to the above requirements and with the Total Maximum Daily Load (TMDL) for phosphorus on Lake Sawyer, City staff (and/or citizen volunteers) takes water quality samples at Lake Sawyer.
- The City has used the DOE 2005 SWMMWW and the Lake Sawyer TMDL in the Development Agreement for the major MPD's in Black Diamond.

6.3 PLANNED ACTIVITIES

The City has a program to help reduce stormwater runoff from new development and construction sites but has a goal to train in the implementation of the DOE 2012 SWMMWW in order to maintain compliance as Permit requirements have been modified. Actions that are recommended include:

- Review red-line changes to Permit requirements regarding the control of runoff from development, redevelopment, and construction site activities.
- Update and implementing process codes, fees and standards as necessary and as identified needs arise.
- Determine staff training needs and develop training strategies as updates to Permit requirements are implemented by DOE.

SECTION 7 –MUNICIPAL OPERATIONS AND MAINTENANCE

7.1 PERMIT REQUIREMENTS AND DATES

Section S5.C.5 of the Western Washington Phase II Municipal Stormwater Permit requires the City to implement an operations and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations. Specific program components are outlined below.

- Establish maintenance standards that are as protective, or more protective, of facility function that those specified in Chapter 4 of Volume V of the Department of Ecology (DOE) 2012 Stormwater Maintenance Manual for Western Washington (SWMMWW) by December 31, 2016. The purpose of the maintenance standard is to determine if maintenance is required and is not a measure of the facility's required condition at all times between inspections.
- Annual inspection of all municipally owned or operated permanent stormwater treatment and flow control facilities and taking appropriate maintenance actions. Inspection frequency may be reduced as outlined in Section S5.C.5.b of the Permit.
- Spot checks of potentially damaged permanent treatment and flow control facilities after major storm events (10 year storm).
- Inspection of all catch basins and inlets owned or operated by the City at least once before August 1, 2017 and once every two years thereafter. The City is developing an inspection and maintenance schedule for each catch basin and inlet as some catch basins will not need inspections as frequently and other catch basins will need to be inspected and maintained more frequently than required by the Permit to ensure functionality. Reduced inspections will be in accordance with Section S5.C.5.d.i of the Permit.
- Establish and implement policies and procedures to reduce pollutants in discharges from all lands owned or maintained by the City, including but not limited to: streets, parking lots, roads, highways, buildings, parks, open space, road right-of-way, maintenance yards, and stormwater treatment and flow control Best Management Practices (BMPs)/facilities.
- Implement an on-going training program for City staff whose construction, operations or maintenance job functions may impact stormwater quality.
- Continue to 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.
- Keep records of inspections and maintenance or repair activities.

7.2 CURRENT ACTIVITIES

The City currently has activities and programs that meet some of the Permit requirements. The current compliance activities associated with the above Permit requirements include:

- The City has a program for catch basin inspections with the most recent inspections occurring in 2013.
- The City has completed a site assessment of City facilities, including the fire station, the police station, the public works facility, and the water reservoir and pump station.
- The City inspects City owned stormwater treatment facilities and continues to adapt the inspection criteria as identified in the DOE 2005 SWMMWW. The City will adapt inspections and inspection criteria as identified in the DOE 2012 SWMMWW.
- The City has trained employees whose construction, operations or maintenance job functions may impact stormwater quality in the implementation of BMPs that will reduce or eliminate pollution from entering the Municipal Separate Storm Sewer System (MS4) from City facilities or operations.
- The City has established maintenance standards that are as protective as those specified in the 2005 SWMMWW.
    - Before December 31, 2016, the City will need to establish maintenance standards that are as protective as those specified in the 2012 SWMMWW. The purpose of the maintenance standard is to determine if maintenance is required. The maintenance standard is not a measure of the facility's required condition at all times between inspections. Exceeding the maintenance standard between the period of inspections is not a permit violation.
- The City performs maintenance within required timeframes when an inspection identifies an exceedance of the maintenance standard. For each exceedance of the required timeframe, the City will document the circumstances and how they were beyond the City's control.
- The City annually inspects all municipally owned or operated permanent stormwater treatment and flow control facilities and maintains facilities according to the adopted maintenance standards.
- The City performs maintenance on City ponds and BMPs within required timeframes when an inspection identifies a maintenance standard has been exceeded. For each violation of the required timeframe, the City documents the circumstances and how they were beyond their control, and submits documentation to DOE.
- After major storm events, the City conducts spot checks of potentially damaged stormwater facilities.
- The City implements practices to reduce stormwater impacts associated with runoff from streets, parking lots, roads or highways owned or maintained by the City, and road maintenance activities conducted by the City.

- Procedures are in place to reduce pollutants in discharges from all lands owned or maintained by the City and subject to this Permit, including but not limited to: parks, open space, road right-of-way, maintenance yards, and stormwater treatment and flow control facilities. Procedures include:
    - Proper application of fertilizer, pesticides, and herbicides
    - Sediment and erosion control (the City has a Certified Erosion and Sediment Control Lead (CESCL) on staff)
    - Proper landscape maintenance and vegetation disposal
    - Proper trash management
    - Proper maintenance and cleaning of City buildings
- City employees, whose construction, operations or maintenance job functions may impact stormwater quality, receive training on an as-needed basis.
- SWPPPs are in place for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated by the City in areas subject to this Permit that are not required to have coverage under the Industrial Stormwater General Permit. The latest update to the SWPPP for the Public Works Maintenance Facility was completed in October, 2013.
- Tracking and documentation methods, along with procedures associated with inspection, maintenance or repair activities, are being utilized by City staff.
- The washing of City vehicles and large equipment is performed at the City's equipment washing facility at the City's maintenance site, which was completed in 2013. Staff using the facility is trained prior to use in accordance with standard operating procedures for the facility.

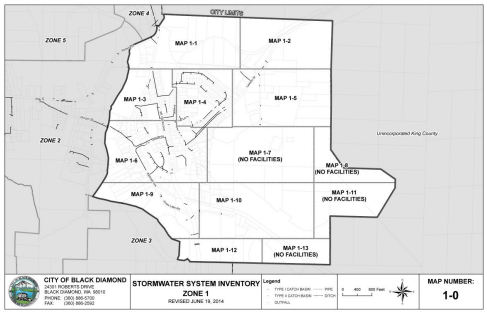
7.3 PLANNED ACTIVITIES

The City will continue with current activities to prevent pollution from municipal maintenance operations. The City is also working on completing the development of site and handling procedures for storage, processing, and reusing street and storm waste with assistance from the King County Solid Waste Treatment Division, which is not a requirement of the Permit. Decant water will be disposed of in accordance with Appendix 6 of the Permit.

The City tries to sweep streets at least twice per year as budgets allow.

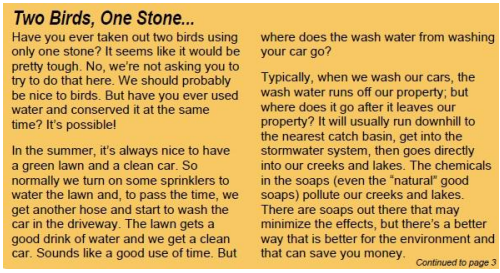
APPENDIX A
RECENT STORMWATER ACCOMPLISHMENTS

Stormwater Facilities Maps (A-2)



Spill Kits for Businesses (A-3)

Stormwater Education (A-4)



Two Birds, One Stone...

Have you ever taken out two birds using only one stone? It seems like it would be pretty tough. No, we're not asking you to try to do that here. We should probably be nice to birds. But have you ever used water and conserved it at the same time? It's possible!

In the summer, it's always nice to have a green lawn and a clean car. So normally we turn on some sprinklers to water the lawn and, to pass the time, we get another hose and start to wash the car in the driveway. The lawn gets a good drink of water and we get a clean car. Sounds like a good use of time. But where does the wash water from washing your car go?

Typically, when we wash our cars, the wash water runs off our property; but where does it go after it leaves our property? It will usually run downhill to the nearest catch basin, get into the stormwater system, then goes directly into our creeks and lakes. The chemicals in the soaps (even the "natural" good soaps) pollute our creeks and lakes. There are soaps out there that may minimize the effects, but there's a better way that is better for the environment and that can save you money.

Continued to page 3

Street Sweeping (A-5)

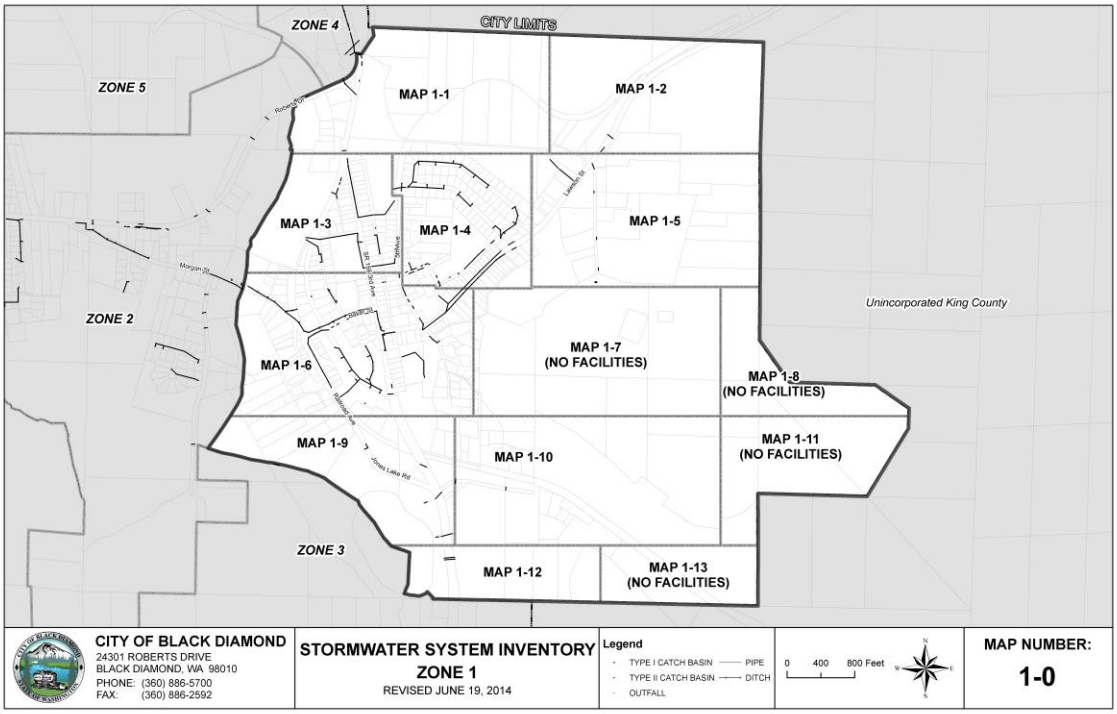
Diverting Stormwater to Infiltration Areas (A-6)

APPENDIX A
RECENT STORMWATER ACCOMPLISHMENTS

Stormwater Facilities Maps

The stormwater maps that were originally provided to the City were not user-friendly in the field. Using the City's Geographic Information Systems (GIS) software, staff was able to recreate the City's stormwater facilities maps and present them in a more user-friendly manner, making it easier for field staff to navigate pages to find information on specific stormwater facilities.

The City was broken into emergency response zones to help facilitate response times for Public Works staff. These same zones were used in dividing up how the stormwater facilities are organized. The picture below shows the Zone 1 overview.



APPENDIX A
RECENT STORMWATER ACCOMPLISHMENTS

Spill Kits for Businesses

The City teamed up with a non-profit group called the Environmental Coalition of South Seattle (ECOSS) and distributed free spill kits to nineteen businesses in the City. These spill kits can be used to clean up smaller spills of chemicals, grease, etc. that occur outdoors. Use of these spill kits will help keep potentially harmful materials from entering the City's stormwater system and our local waterways.

As part of their service, ECOSS will also be providing Spill Plans to the businesses that were visited so all workers can know what to do if a spill occurs. For more information about ECOSS, visit their website at www.ecoss.org.

APPENDIX A
RECENT STORMWATER ACCOMPLISHMENTS

Stormwater Education

City staff published stormwater education articles in the City Connection Newsletter in 2014. These articles focused on how residents here in Black Diamond can protect the stormwater system in different manners. Items discussed include car washing, clearing leaves from catch basins, and even discussed how placing gravel along the road can affect the stormwater system and flood your neighbor's property. Utilizing the City Connection Newsletter has been a cost-effective way of making stormwater education available to all residents and businesses in Black Diamond.

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Continued to page 3

APPENDIX A
RECENT STORMWATER ACCOMPLISHMENTS

Street Sweeping

The City plans on sweeping all of its streets in 2014. At the time of publication, staff has received quotes for street sweeping services and is waiting for good weather to have the street sweeping company come and do the work.

APPENDIX A
RECENT STORMWATER ACCOMPLISHMENTS

Diverting Stormwater to Infiltration Areas

Homeowners had approached City staff with cost-effective solutions to diverting stormwater from flowing directly into Lake Sawyer and Covington Creek. During the City's 2014 Pavement Patching project, staff was able to have the contractor install asphalt berms to divert stormwater runoff from various waterbodies to ditches or depressions where the stormwater can infiltrate. Careful consideration was given in installing these berms and other diversions so that the diverted stormwater does not impact neighbors. The City diverted three areas removing 1,470 feet of polluted roadway runoff from entering surface water (Covington Creek, Lake Sawyer, and Lawson Creek).

Berm in the foreground; Covington Creek in the background.