

March 2012

City of Mount Vernon

2012 Stormwater Management Program



CITY OF MOUNT VERNON
2012 STORMWATER
MANAGEMENT PROGRAM

Prepared for
City of Mount Vernon, Washington
March 2012



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List of Abbreviations

BMP	best management practice
CAO	City Attorney's Office
CED	Community and Economic Development (Department)
City	City of Mount Vernon
CSO	combined sewer overflow
CWA	Clean Water Act
E&O	education and outreach
Ecology	Washington State Department of Ecology
Ecology 2005 Manual	<i>Stormwater Management Manual for Western Washington</i>
EPA	U.S. Environmental Protection Agency
IDDE	illicit discharge detection and elimination
IPM	Integrated Pest Management Plan
IS	Information Services
LA	load allocation
LID	low-impact development
MEP	maximum extent practicable
MS4	municipal separate storm sewer system
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
O&M	operation and maintenance
Permit	Western Washington Phase II Municipal Stormwater Permit Phase II Permit
PSSH	Puget Sound Starts Here
Road Map	Operations and Maintenance Regional Coordination Program
SCD	Skagit Conservation District
SOG	Stormwater Outreach Group
SOP	standard operating procedure
STORM	Stormwater Outreach for Regional Municipalities
SWMP	Stormwater Management Program
SWPPP	stormwater pollution prevention plan
TMDL	total maximum daily load
WLA	waste load allocation
WWCPA	Washington Wastewater Collection Personnel Association

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CITY OF MOUNT VERNON 2012 STORMWATER MANAGEMENT PROGRAM

1. INTRODUCTION

1.1 Overview

This document presents the City of Mount Vernon's Stormwater Management Program (SWMP). Preparation and maintenance of this SWMP is required by the Washington State Department of Ecology (Ecology) as a condition of the Western Washington Phase II Municipal Stormwater Permit (Phase II Permit). The Phase II Permit covers discharges from regulated small municipal separate storm sewer systems (MS4s). Based on criteria outlined in the Phase II Permit, Ecology considers the City of Mount Vernon (City) to be an operator of a small MS4, and the City is therefore required to obtain Permit coverage.

Each municipality's permit for discharging stormwater is designed to reduce the discharge of pollutants, protect water quality, and meet the requirements of the federal Clean Water Act (CWA). Phase II Permit requirements include programmatic additions over time and this SWMP document has been revised accordingly.

Appendix A includes abbreviations and definitions from the Permit to help the reader understand the City's SWMP.

1.2 The Stormwater Problem

Stormwater is an identified problem for receiving water quality. The following section from the Ecology's NPDES General Permit Fact Sheet describes the some of the relevant issues.

Stormwater is the leading contributor to water quality pollution in our urban waterways. As urban areas grow, stormwater is also Washington's fastest growing water quality problem. Pollutants in or resulting from stormwater can cause a wide range of impacts. Untreated stormwater is not safe for people to drink and is not recommended for swimming because it contains toxic metals, organic compounds and bacteria. Some pollutants such as metals, oil and grease, and organic toxins are toxic to aquatic organisms if concentrations are high enough. Sediments cause tissue abrasion and gill clogging in fish, they reduce light and impair algal growth, they smother fish spawning habitat and are transporters of other pollutants. Nutrients accelerate eutrophication of lakes and ponds resulting in nuisance algal blooms, reduced clarity, odors and reduced drinking water quality. Temperature sensitive fish and invertebrates cannot survive in overly warm water bodies.

In addition, the large impervious surfaces in urban areas increase the quantity and peak flows of runoff, which in turn cause hydrologic impacts such as scoured streambed channels, in-stream sedimentation, and loss of habitat. Furthermore, because of the increased volume of runoff discharges, loads of pollutants in stormwater can be significant, causing water quality problems such as disease and mortality in fish and other

aquatic organisms, swimming beach and shellfish bed closures, and contamination of wells.

A number of pollution sources contaminate stormwater, including land use activities, operation and maintenance (O&M) activities, illicit discharges and spills, atmospheric deposition, and vehicular traffic conditions. Many of these sources are not under the direct control of the Permittees that own or operate the storm sewers.

—Ecology, “NPDES General Permit Fact Sheet,” 2006

The City of Mount Vernon manages a number of complex systems potentially affecting stormwater. The City is involved in efforts that go beyond the scope of many larger municipalities including, but not limited to, river flood control operations, managing the City storm drain system, and operating sewage treatment facilities. While the City has long had a commitment to clean water and, as a result, is currently in compliance with state and federal requirements, it must now look toward meeting the demands of the new Phase II Permit, described in detail in Section 1.3 below.

1.3 Regulatory Background

The National Pollutant Discharge Elimination System (NPDES) permit program is a requirement of the federal Clean Water Act, which is intended to protect and restore waters for “fishable, swimmable” uses. The federal Environmental Protection Agency (EPA) has delegated permit authority to state environmental agencies, and these agencies can set permit conditions in accordance with and in addition to the minimum federal requirements. In Washington, Ecology is the NPDES-delegated permit authority.

Municipalities with populations of more than 100,000 (as of the 1990 census) have been designated as Phase I communities and must comply with Ecology’s Phase I NPDES Municipal Stormwater Permit. With Mount Vernon’s 1990 census falling below the 100,000 threshold, the City must comply with the Phase II Municipal Stormwater Permit. About 100 other municipalities in Washington must also now comply with the Phase II Permit, as operators of small MS4s. Ecology’s Phase II Permit is available on Ecology’s Web site at <http://www.ecy.wa.gov/programs/wq/stormwater/municipal/index.html>.

The Permit allows municipalities to discharge stormwater runoff from municipal drainage systems into the state’s water bodies (i.e., streams, rivers, lakes, and wetlands) as long as municipalities implement programs to protect water quality by reducing the discharge of “nonpoint source” pollutants to the “maximum extent practicable” (MEP) through application of Permit-specified “best management practices” (BMPs). The BMPs specified in the Permit are collectively referred to as the Stormwater Management Program (SWMP) and grouped under the following SWMP components:

- Public Education and Outreach (E&O)
- Public Involvement
- Illicit Discharge Detection and Elimination (IDDE)
- Controlling Runoff from New Development, Redevelopment, and Construction Sites
- Pollution Prevention and Municipal Operation and Maintenance (O&M)
- Monitoring

The original Phase II Permit issued by Ecology became effective on February 16, 2007, with an expiration date of February 15, 2012. On June 17, 2009, Ecology released a modified version of the Permit, which changed some of the requirement deadlines. In 2011 the Washington State Legislature passed and the governor signed ESHB 1478, authorizing Ecology to issue a new Permit, unchanged from the existing permit

with effective dates from August 2012 to August 2013. Despite a gap between the Permit effective dates, the Permittees shall continue to meet all requirements of the existing Permit through August 2013. An updated Permit will subsequently be issued to be in effect from August 2013 to August 2018.

The Permit requires the City to report annually (March 31 of each year) on progress in SWMP implementation for the prior year. The Permit also requires submittal of documentation that describes proposed SWMP activities for the coming year. Implementation of various Permit conditions is phased in over the 5-year Permit cycle.

1.4 City of Mount Vernon Regulated Area

The Phase II Permit applies to operators of regulated small MS4s that discharge stormwater to waters of Washington State located west of the crest of the Cascade Range (west of the eastern boundaries of Whatcom, Skagit, Snohomish, King, Pierce, Lewis, and Skamania Counties). For cities, the Permit requirements extend only to those areas of each city that drain to MS4s. In Mount Vernon, much of the downtown area drains to a combined sewer overflow (CSO) system, which sends runoff to the wastewater treatment plant before entering the Skagit River. The CSO discharge area is covered under a permit separate from the Phase II Permit.

1.5 Total Maximum Daily Load Compliance

For stormwater discharges covered under this Permit, Permittees are required to implement actions necessary to achieve the pollutant reductions called for in applicable total maximum daily loads (TMDLs). Applicable TMDLs are those that have been approved by the EPA before the issuance date of the Permit or have been approved by the EPA prior to the date the Permittee's application is received by Ecology. Information on Ecology's TMDL program is available on Ecology's Web site at www.ecy.wa.gov/programs/wq/tmdl.

Ecology has reviewed all TMDLs approved by EPA before February 15, 2006, to determine whether municipal stormwater sources were identified in the TMDL. When most of these TMDLs were developed, municipal stormwater was considered a subset of nonpoint discharges, rather than a permitted discharge. As a result, very few TMDLs statewide contain requirements for municipal stormwater sources. Few TMDLs completed to date have established load allocations (LAs) or waste load allocations (WLAs) for municipal stormwater discharges covered under this Permit.

Appendix 2 of the Permit lists the cities and counties affected by TMDLs that were approved by EPA prior to February 15, 2006. While the City of Mount Vernon has not been listed in Appendix 2, there are water quality impairments (CWA section 303[d] "listings") within the City that could potentially trigger TMDLs for the next updated Permit cycle (2013–18).

1.6 SWMP Implementation Responsibilities

The Public Works Department will be coordinating the overall administration of efforts to comply with Permit requirements. The Community and Economic Development (CED) Department will play a large role in the implementation of Permit program activities such as inspections, Permit review, code revisions, etc. The City has contracted with the Skagit Conservation District (SCD) to implement the Education and Outreach requirements of the Permit. The Skagit County Public Health Department conducts septic system inspections and a local source control program that help to educate citizens and businesses about stormwater pollution. Table 1-1 summarizes participant responsibilities for ensuring future Permit compliance. Sections 2 through 8 highlight the planned efforts of these departments and entities in more detail.

Table 1-1. SWMP Implementation Responsibilities		
Program Component	City Departments	Outside Entities
Stormwater Management Program	Public Works Finance Information Services (IS) City Attorney's Office (CAO)	
Public education and outreach	Public Works	SCD Skagit County Public Health Department
Public involvement	Public Works	SCD
Illicit discharge detection and elimination	Public Works CED Fire Department	
Runoff controls	Public Works CED	
Pollution prevention and municipal operation and maintenance	Public Works CED	
Water quality monitoring	Public Works	SCD

1.7 Document Organization

The contents of this document are based upon Permit requirements and Ecology's "Draft Guidance for City and County Annual Reports for Western Washington, Phase II Municipal Stormwater Permits." The organization of the remainder of this SWMP is modeled after that of the Permit:

- **Section 2.0** addresses Permit requirements for administering the City's SWMP for 2012.
- **Section 3.0** addresses Permit requirements for public E&O for 2012.
- **Section 4.0** addresses Permit requirements for public involvement and participation for 2012.
- **Section 5.0** addresses Permit requirements for IDDE for 2012.
- **Section 6.0** addresses Permit requirements for controlling runoff from new development, redevelopment, and construction sites for 2012.
- **Section 7.0** addresses Permit requirements for pollution prevention and municipal operations and maintenance for 2012.
- **Section 8.0** addresses Permit requirements for the water quality monitoring section of the Permit for 2012.
- **Section 9.0** summarizes the City's compliance activities.
- **Appendix A** provides abbreviations and definitions from the Permit.
- **Appendix B** provides current City stormwater system map.

Each section includes a summary of the relevant Permit requirements and a description of current and planned compliance activities.

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2. STORMWATER MANAGEMENT PROGRAM ADMINISTRATION

This section of the SWMP provides a description of Permit requirements related to overall SWMP administration, including descriptions of the City's current and planned compliance activities for 2012.

2.1 Permit Requirements

The Permit (Section S5.A) requires the City to perform the following tasks:

- Develop and implement a SWMP and prepare written documentation (SWMP document) for submittal to Ecology on March 31 of each year, including updates to the SWMP annually. The purpose of the SWMP is to reduce pollutant discharge from the municipal stormwater system to the maximum extent practicable and thereby protect water quality.
- Submit annual compliance reports (for the previous calendar year) to Ecology by March 31, beginning in 2008, summarizing implementation status and provide information from assessment and evaluation procedures collected during the reporting period.
- Starting in 2011, submit a report summarizing any barriers to low-impact development (LID) within the area covered by the Permit and measures to address the barriers.
- Coordinate with other Permittees on stormwater-related policies, programs, and projects within adjacent or shared areas.

2.2 Current Compliance Activities

The City currently has activities and programs that address the Permit requirements. The current compliance activities associated with the Permit include the following:

- The City has defined roles and responsibilities and developed standard operating procedures (SOPs) for completing updates to future SWMP documents and the Annual Compliance Report annually.
- The City maintains a cost accounting database for tracking annual Permit costs.
- The City maintains a training database for tracking and documenting compliance with all NPDES-related training.
- The City is on track to comply with Ecology's requirements for submittal of the fifth Annual Compliance Report by March 31, 2012.
- The City continues to coordinate with external entities such as the SCD, Sedro-Woolley, Burlington, Anacortes, and Skagit County.
- The City meets quarterly with The North Sound NPDES Municipal Stormwater Permit Phase I/II Forum to discuss stormwater policies and projects in the area.
- The City participates in the regional forums under Stormwater Outreach for Regional Municipalities (STORM), NPDES Permit coordinators, and Operations and Maintenance Regional Coordination Program (Road Map).

2.3 Planned 2012 Compliance Activities

The City has positioned itself well to maintain compliance as Ecology phases in the future Permit requirements. Actions recommended for continued compliance are included in Table 2-1, which presents the work plan for the 2012 SWMP administration activities.

Table 2-1. 2012 Stormwater Management Program Administration Work Plan				
Task ID	Task Description	Lead	Support	Compliance Timeframe
SWMP-1	Continue development of existing NPDES SWMP cost accounting strategy and tracking system. Train staff on new system.	Public Works, Finance		City maintains cost-tracking database.
SWMP-2	Continue use of NPDES training management structure and tracking system.	Public Works, IS	All	City maintains NPDES training database.
SWMP-3	Define and implement strategy/system for managing SOPs that are used among multiple departments.	Public Works, Finance	CAO	SOPs are maintained and implemented throughout all City departments.
SWMP-4	Summarize annual activities for "Stormwater Management Program" component of Annual Report; identify any updates to SWMP document.	Public Works, Finance	All	The SWMP and Annual Compliance Report submittal for the previous year is due on or before March 31 of each year.
SWMP-5	Coordinate with other Permittees on stormwater-related policies, programs, and projects within adjacent or shared areas.	Public Works	All	Local jurisdiction staff meet quarterly to discuss stormwater-related policies and programs. Continue to follow STORM, APWA NPDES Permit coordinators, and Road Map forums. Monitor the State Stormwater Work Group.

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3. PUBLIC EDUCATION AND OUTREACH

This section provides a description of the Permit requirements related to public education and outreach (E&O), including descriptions of the City's current and planned compliance activities for 2012.

3.1 Permit Requirements

The Permit (Section S5.C.1) requires the City to perform the following tasks:

- Prioritize and target E&O activities to specified audiences, including the general public, businesses, residents/homeowners, landscapers, property managers, engineers, contractors, developers, review staff and land use planners, and other City employees to reduce or eliminate behaviors and practices that cause or contribute to adverse stormwater impacts.
- Measure the understanding and adoption of the targeted behaviors for at least one targeted audience in at least one subject area.
- Track and maintain records of public E&O activities.

3.2 Current Compliance Activities

The City currently contracts with the SCD to conduct numerous E&O activities that address stormwater management. Skagit County also assists the City with stormwater education and outreach through its "On Site Sewage Program" that informs citizens and businesses on septic system operation and maintenance. Skagit County and SCD's current activities and programs address the Permit requirements. These programs address the general public, residents/homeowners, developers, City staff, contractors, businesses, engineers, and schoolchildren. The City has also been using the City cable TV channel to broadcast information about stormwater. The current compliance activities associated with the Permit include the following:

- A "Stormwater Systems Maintenance Workshop and Field Tour" for homeowner associations and private stormwater facilities was held on January 22, 2011.
- A rain garden workshop was held on June 23, 2011.
- 40 citizens participated in the Backyard Conservation Program.
- 17 citizens participated in the Fall 2011 Watershed Masters Program.
- The Stream Teams monitored two streams in the city.
- Three fact sheets were developed for mobile business.
- 223 storm drains were marked and 379 information door hangers were distributed through a scout service project.
- Three stormwater education presentations were conducted at local elementary schools, reaching 61 students.
- City staff distributed several thousand informational coffee sleeves and beverage coasters to local businesses.

SCD tracks all of its E&O efforts and attendees to workshops in Excel databases and Word documents. Skagit County also documents all inspections and businesses visited in spreadsheets. These documents are submitted to the City annually. The City Information Services Department tracks the number of times videos and commercials are played relating to stormwater. The following were played during 2011:

- 210 showings of the “After the Storm” video developed by the EPA
- 210 showings of the “Rain Barrel” public service announcement
- 2,500 announcements from Puget Sound Starts Here (PSSH)

The City is participating in the STORM group to help identify appropriate program evaluation techniques to measure improvements in stormwater quality from E&O efforts.

3.3 Planned 2012 Compliance Activities

The City has an existing stormwater public E&O program that meets the requirements of the Permit. The City will continue to partner with SCD in 2012 to carry on similar activities as those listed in Section 3.2, with the addition of a pet waste campaign. Actions recommended for continued compliance are included in Table 3-1, which presents the work plan for the 2012 public education and outreach activities.

Table 3-1. 2012 Public Education and Outreach Work Plan				
Task ID	Task Description	Lead	Support	Compliance Time Frame
EDUC-1	Coordinate with SCD, APWA, STORM, and other regional efforts to implement the E&O Plan.	Public Works	SCD	Ongoing
EDUC-2	Continue collaboration with other NPDES municipalities and the STORM group to identify appropriate program evaluation techniques.	Public Works	SCD and STORM	Ongoing
EDUC-3	Continue to implement E&O strategy with SCD to supplement existing activities.	Public Works	SCD IS	Ongoing
EDUC-4	Continue developing the process to evaluate understanding and adoption of target behaviors.	Public Works	SCD and STORM	Ongoing
EDUC-5	Summarize annual activities for “Public Education and Outreach” component of Annual Report; identify any updates to SWMP document.	Public Works	SCD	The SWMP and Annual Compliance Report submittal is due on or before March 31 of each year.

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4. PUBLIC INVOLVEMENT

This section provides a description of the Permit requirements related to public involvement, including descriptions of the City's current and planned compliance activities for 2012.

4.1 Permit Requirements

The Permit (Section S5.C.2) requires the City to perform the following tasks:

- Provide ongoing opportunities for public involvement through advisory boards or commissions and watershed committees, and public participation in developing rate structures and budgets, stewardship programs, environmental actions, or other similar activities. The public must be able to participate in the decision-making processes, including development, implementation, and updates of the SWMP.
- Make the SWMP and Annual Compliance Report available to the public, including posting it on the City's Web site and in the newspaper. Make any other documents required to be submitted to Ecology in response to Permit conditions available to the public.

4.2 Current Compliance Activities

The City currently has activities and programs that address the Permit requirements. The current compliance activities associated with the Permit include the following:

- The City has defined a series of public involvement activities intended to meet the Permit requirements for public involvement in development of the 2012 SWMP documents. This process involves a presentation of the proposed SWMP elements at a public meeting before the City Council Public Works Committee.
- The City posted the Draft SWMP on the City's Web site, made announcements on the City cable TV channel, and sent announcements to the local newspaper for public comments prior to the public hearing.
- The City will make the 2012 Final SWMP and Annual Compliance Report available to the public on the City's Web site, at the public library, and in the Public Works Department main office building.
- An LID presentation was delivered to at the City Council meeting in June 2010.

4.3 Planned 2012 Compliance Activities

The City has an existing stormwater public involvement program that meets the Permit requirements. Actions recommended for continued compliance are included in Table 4-1, which presents the work plan for the 2012 public involvement activities.

Table 4-1. 2012 Public Involvement Work Plan				
Task ID	Task Description	Lead	Support	Compliance Time Frame
PI-1	Implement public involvement opportunities for annual SWMP update and reporting process.	Public Works		Complete by 3/31/2012.
PI-2	Make SWMP and Annual Compliance Report available to the public by posting it on the City Web site, public library, and in the Public Works Department building. Post announcements on Web site and in newspaper.	Public Works	IS	Complete by 3/31/2012.
PI-3	Summarize annual activities for the "Public Involvement and Participation" component of the Annual Report; identify any updates to the SWMP document.	Public Works	SCD	The SWMP and Annual Compliance Report submittal is due on or before March 31 of each year.

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5. ILLICIT DISCHARGE DETECTION AND ELIMINATION

This section provides a description of the Permit requirements related to IDDE, including descriptions of the City's current and planned compliance activities for 2012.

5.1 Permit Requirements

The Permit (Section S5.C.3) requires the City to perform the following tasks:

- Implement an ongoing program to detect and remove illicit discharges, connections, and improper disposal, including any spills into the MS4s owned or operated by the City. An illicit discharge means “any discharge to a municipal storm system that is not composed entirely of stormwater...” and illicit connection means “any manmade conveyance that is connected to a municipal storm system without a permit (excluding roof drains and other similar type connections) such as sanitary sewer connections, floor drains, etc.”
- Develop a storm sewer system map, enact ordinances that prohibit illicit discharges, and create a program to detect and address illicit discharges.
- Publicly list and publicize a hotline or other local telephone number for public reporting of spills and other illicit discharges. Track through closeout any illicit discharge reports and actions taken in response, including enforcement actions.
- Train SWMP staff on proper IDDE response procedures and processes and municipal field staff to recognize and report illicit discharges.
- Prioritize three water bodies for visual inspection.
- Summarize all illicit discharges and connections reported to the City and response actions taken, including enforcement actions, in the Annual Compliance Report; identify any IDDE updates to the SWMP.

5.2 Current Compliance Activities

The City currently has activities and programs that address the Permit requirements. The current compliance activities associated with the Permit include the following:

- The City maintains much of its storm sewer information system in an electronic format and has produced a storm sewer system map that is updated as new data become available. See Appendix B for a recent version of the City storm sewer system map.
- The City added one newly installed stormwater facility into its GIS database in 2011.
- The City's Web site lists the public hotline to report illicit discharges and/or spills.
- The City records all phone calls received to the Public Works Department. The calls reporting illicit discharges are then distributed to the appropriate response authority. Follow-up actions are recorded in the same database.
- IDDE awareness training was given to municipal employees who are in the field.
- City has self-administered IDDE training for new employees.

- The City conducted inspections of portions of the storm sewer system, including screening for illicit discharges and connections.
- The City conducted dry weather visual inspection of outfalls from the Britt Slough drainage area.
- The City responded to reports of illicit discharges and took appropriate actions to eliminate discharges, including following proper reporting procedures.
- The City maintains a database to track all staff training to ensure that all City staff have the appropriate training.
- The City summarizes all illicit discharges and connections, response actions taken, and enforcement actions in its Annual Compliance Reports.

5.3 Planned 2012 Compliance Activities

The City has an existing IDDE program, but will need to update the program to maintain compliance as Ecology phases in additional Permit requirements. Actions recommended for continued compliance are included in Table 5-1, which presents the work plan for the 2012 IDDE activities.

Table 5-1. 2012 Illicit Discharge Detection and Elimination Work Plan				
Task ID	Task Description	Lead	Support	Compliance Time Frame
IDDE-1	Revise current IDDE response process into a standard, citywide IDDE response and enforcement SOPs.	Public Works	CED	City maintains Spill Reporting Matrix for IDDE response process.
IDDE-2	Continue to implement citywide IDDE Program.	Public Works		Ongoing.
IDDE-3	Continue updating storm system map to address data gaps and Permit conditions.	Public Works		Ongoing.
IDDE-4	Review and update codes as needed to address IDDE Permit requirements.	Public Works		Ordinance and code updates were adopted by Council in August 2009.
IDDE-5	Develop SOPs for minimizing pollutant releases from permitted non-stormwater discharges (e.g., fire hydrant system flushing, water line flushing, and dechlorinated swimming pools).	Public Works	CED	City adopted new codes and developed SOPs in August 2009.
IDDE-6	Continue to use issue-tracking and resolution system that includes enforcement actions. Capture feedback from public E&O efforts.	Public Works	IS	Ongoing.
IDDE-7	Refresh previously completed field IDDE training. Coordinate with regional efforts.	Public Works		Repeat field trainings for City staff responsible for IDDE investigations, in 2012.
IDDE-8	Refresh self-administered intranet IDDE awareness training for all municipal staff in the field.	Public Works	IS	City maintains self-administered training available for new employees and to periodically refresh previously trained employees.
IDDE-9	Publicize hotline for public reporting of spills and other illicit discharges. Create record-keeping system for all calls received and actions taken to report in annual report each year.	Public Works	CED	Ongoing.
IDDE-10	Tracked the number of illicit connection inspections.	Public Works	CED	Ongoing, City planning to continue conducting TV sewer inspections of storm sewers for condition and illicit connection assessment in 2012.
IDDE-11	Maintain map that shows the location of all known municipal separate storm sewer outfalls, receiving waters, and structural stormwater BMPs.	Public Works	CED	Ongoing.

Table 5-1. 2012 Illicit Discharge Detection and Elimination Work Plan				
Task ID	Task Description	Lead	Support	Compliance Time Frame
IDDE-12	Prioritize three receiving water bodies for visual inspection.	Public Works		Prioritization is done in the City's IDDE Plan. Visual inspections were completed by WSP Environment and Energy in 2008.
IDDE-13	Summarize annual activities for "Illicit Discharge Detection and Elimination" component of Annual Report; identify any updates to SWMP.	Public Works		The SWMP and Annual Compliance Report submittal is due on or before March 31 of each year.
IDDE-14	Enhance the City's IDDE plan document to better describe the City's different ongoing activities in relation to recent new IDDE requirements.	Public Works		Complete in 2012.

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6. CONTROLLING RUNOFF FROM NEW DEVELOPMENT, REDEVELOPMENT, AND CONSTRUCTION SITES

This section provides a description of the Permit requirements related to controlling runoff from new development, redevelopment, and construction sites, including descriptions of the City's current and planned compliance activities for 2012. The modifications made by Ecology in June 2009 to the Permit included delaying the deadlines for several of the activities under this requirement.

6.1 Permit Requirements

The Permit (Section S5.C.4) requires the City to perform the following tasks:

- Develop, implement, and enforce a program to reduce pollutants in stormwater runoff (i.e., illicit discharges) to the MS4 from new development, redevelopment, and construction site activities. The program must apply to both private and public projects, including roads, and address all construction/development-associated pollutant sources.
- Adopt regulations (codes and standards) and implement plan review, inspection, and escalating enforcement SOPs necessary to implement the program in accordance with Permit conditions, including the minimum technical requirements in Appendix 1 of the Permit.
- Provide provisions (plan review, inspection, and enforcement) and SOPs to allow nonstructural preventive actions and source reduction approaches such as LID techniques, measures to minimize the creation of impervious surfaces, and measures to minimize the disturbance of native soils and vegetation.
- Adopt regulations (codes and standards) and provide provisions to verify adequate long-term operations and maintenance of new post-construction permanent stormwater facilities and BMPs in accordance with Permit conditions, including an annual inspection frequency and/or approved alternative inspection frequency and maintenance standards for private drainage systems as protective as those in Chapter IV of the 2005 Ecology *Stormwater Management Manual for Western Washington* (Ecology 2005 Manual).
- Provide copies of the Notice of Intent (NOI) for construction or industrial activities to representatives of the proposed new development and redevelopment.
- Provide training to staff on the new codes, standards, and SOPs, and create public E&O materials.
- Develop and define a process to record and maintain all inspections and enforcement actions by staff for inclusion in the Annual Compliance Report.
- Summarize annual activities for the "Controlling Runoff" component of the Annual Compliance Report; identify any updates to the SWMP.

6.2 Current Compliance Activities

The City currently has activities and programs that address the Permit requirements. The current compliance activities associated with the Permit include the following:

- The City has developed and implemented SOPs to reduce pollutants in stormwater runoff from new development, redevelopment, and construction site activities. The City enforces this program through the Municipal Code. The City currently addresses the minimum requirements, technical thresholds, and definitions requirements of the Permit and has adopted a new code that became effective in February 2010.
- The City has existing programs, codes, standards, SOPs, and data management systems (City View and Dockstar) addressing many of the Permit requirements. The plan review, inspection, and enforcement SOPs will be refined and updated.
- The City adopted the 2005 Ecology manual effective February of 2010.
- The City Code has provisions to allow for LID in the Critical Areas Ordinance. The City also encourages the use of LID at the pre-permit application meeting.
- The City completes the required inspections, including development sites prior to construction, future City infrastructure sites during construction, and future City infrastructure sites post-construction.
- The City completes the required inspections for private infrastructure.
- The City records and maintains inspections results in log books.
- The City inspects new flow control and water quality treatment facilities at the required times and frequency.
- NOI forms are available at the customer service desk and are also mentioned in the Pre-permit application meetings for applicable developments.
- The City will summarize all associated runoff control activities in its Annual Compliance Report submitted annually on March 31.

6.3 Planned 2012 Compliance Activities

The City has a program to help reduce stormwater runoff from new development and construction sites, but updates will be necessary to maintain compliance as Ecology phases in Permit requirements. Table 6-1 presents the work plan for 2012 SWMP activities related to runoff control for new development, redevelopment, and construction sites.

Table 6-1. 2012 Controlling Runoff from New Development, Redevelopment, and Construction Sites Work Plan				
Task ID	Task Description	Lead	Support	Compliance Time Frame
CTRL-1	Select new Stormwater Manual and implement new Stormwater Manual, codes, standards, and SOPs.	Public Works	CED	Adopted new codes effective February 2010.
CTRL-2	Apply technical thresholds in Appendix 1 to all sites 1 acre or greater.	Public Works	CED	Adopted new codes effective February 2010.
CTRL-3	Create SOPs defining the City's stormwater permitting, plan review, inspection, enforcement, and record-keeping processes.	Public Works, CED	CAO	Ongoing.
CTRL-4	Implement stormwater permitting, plan review, inspection, and enforcement SOPs (including enhanced inspection/enforcement documentation in Permits Plus).	CED	Public Works	Ongoing.

Table 6-1. 2012 Controlling Runoff from New Development, Redevelopment, and Construction Sites Work Plan				
Task ID	Task Description	Lead	Support	Compliance Time Frame
CTRL-5	Track number of inspections, plan reviews, and enforcement.	Public Works	CED	Started in 3/31/2010 Annual Report.
CTRL-6	Establish program to annually inspect all stormwater treatment flow control facilities (other than catch basins) permitted by the Permittee.	Public Works		Ongoing.
CTRL-7	Conduct staff training and public E&O on implementing new Stormwater Manual and new Permit requirements.	Public Works	SCD	Ongoing.
CTRL-8	Create and implement SOP for long-term stormwater system operation and maintenance verification.	Public Works	CED	Ongoing.
CTRL-9	Summarize annual activities for "Controlling Runoff from New Development, Redevelopment, and Construction Sites" component of Annual Report; identify any updates to SWMP.	Public Works	CED	The SWMP and Annual Compliance Report submittal is due on or before March 31 of each year.

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CITY OF MOUNT VERNON 2012 STORMWATER MANAGEMENT PROGRAM

7. POLLUTION PREVENTION AND OPERATION AND MAINTENANCE FOR MUNICIPAL OPERATIONS

This section provides a description of the Permit requirements related to pollution prevention and O&M for municipal operations, including descriptions of the City's current and planned compliance activities for 2012.

7.1 Permit Requirements

The Permit (Section S5.C.5) requires the City to perform the following tasks:

- Develop and implement an O&M program, with the ultimate goal of preventing or reducing pollutant runoff from MS4 and municipal O&M activities.
- Establish maintenance standards for the MS4 that are at least as protective as those specified in the 2005 *Stormwater Management Manual for Western Washington*.
- Perform required inspection frequency of stormwater flow control and treatment facilities and catch basins, unless previous inspection data show that a reduced frequency is justified.
- Have SOPs in place to reduce stormwater impacts associated with runoff from municipal O&M activities, including but not limited to streets, parking lots, roads, or highways owned or maintained by the City, and to reduce pollutants in discharges from all lands owned or maintained by the City.
- Train staff to implement the modified SOPs and document that training.
- Prepare stormwater pollution prevention plans (SWPPPs) for all heavy equipment maintenance or storage yards identified for year-round facilities or yards, and material storage facilities owned or operated by the City.
- Summarize annual activities for the "Pollution Prevention and Operations and Maintenance for Municipal Operations" component of the Annual Compliance Report; identify any updates to the SWMP.

7.2 Current Compliance Activities

The City currently has activities and programs that address the Permit requirements. The current compliance activities associated with the above Permit requirements include the following:

- The City operates an O&M program, with the ultimate goal of preventing or reducing pollutant runoff from municipal operations.
- The City is currently on track to comply with required municipal stormwater facility inspection frequencies. The City also conducts spot checks of potentially damaged treatment and control facilities. All inspections are recorded in inspection logs.
- The City conducts numerous activities to reduce stormwater impacts associated with runoff from municipal O&M activities, including but not limited to streets, parking lots, and roads owned or maintained by the City. Some of the activities include street sweeping, ditch maintenance, dust control, and pond maintenance.
- Sewer and drainage crews receive training from the Washington Wastewater Collection Personnel Association (WWCPA) biennially.

- The City has developed a SWPPP for the maintenance yard.
- The City conducted trainings for all maintenance yard staff in 2010.
- City staff from the Public Works Department, Roads Department, and Parks Department has received training on pollution prevention.
- The City has adopted administrative operating policies and procedures in the form of an Integrated Pest Management Plan (IPM) and a Property and Facility Management Plan for Pollution Reduction in accordance with Section S5.C4.g of the Permit.
- The City summarizes all associated activities in its Annual Compliance Report, due on March 31 of each year.

7.3 Planned 2012 Compliance Activities

The City conducts many of the Permit-required activities to limit stormwater pollution potential related to its O&M program. However, updates will be necessary to maintain compliance as Ecology phases in additional Permit requirements. Table 7-1 presents the work plan for 2012 SWMP activities related to pollution prevention and O&M activities.

Table 7-1. 2012 Pollution Prevention and Operations Maintenance Work Plan				
Task ID	Task Description	Lead	Support	Compliance Time Frame
PPOM-1	Maintain records of inspections and maintenance or repair activities conducted. Designate responsibilities for maintaining records.	Public Works		Ongoing.
PPOM-2	Adopt Ecology 2005 maintenance standards for City-performed maintenance activities.	CAO	Public Works	Adopted Manual February 2010.
PPOM-3	Establish annual inspection program for City-owned or operated stormwater catch basins and flow control and runoff treatment facilities.	Public Works		Ongoing.
PPOM-4	Develop and establish policies and procedures for O&M activities to reduce pollutants in stormwater discharges from lands owned or maintained by the City.	Public Works	Parks and Recreation, Facilities, CED	Ongoing.
PPOM-5	Summarize annual activities for "Pollution Prevention and Operation and Maintenance" component of Annual Report; identify any updates to SWPPP.	Public Works		The SWMP and Annual Compliance Report submittal is due on or before March 31 of each year.

CITY OF MOUNT VERNON 2012 STORMWATER MANAGEMENT PROGRAM

8. MONITORING

This section provides a description of the Permit requirements related to water quality monitoring, including descriptions of the City's current and planned compliance activities for 2012.

8.1 Permit Requirements

The Permit (Section S8) does not require municipalities to conduct water quality sampling or other testing during this Permit cycle, with the following exceptions:

- Sampling or testing required for characterizing illicit discharges pursuant to the SWMP's IDDE conditions.
- Water quality monitoring required for compliance with TMDL conditions (water quality cleanup plans). Mount Vernon is currently not required to conduct TMDL monitoring as part of this Permit because Ecology has not yet developed TMDLs for those water bodies within the Mount Vernon city limits.
- Preparing to participate in a future comprehensive, long-term water quality monitoring plan including two components: (1) stormwater monitoring and (2) targeted SWMP effectiveness monitoring.
- By the fourth Annual Compliance Report (March 31, 2011), Mount Vernon was required to identify two outfalls where permanent stormwater sampling stations can be installed and operated for future monitoring. The City is also required to develop plans to monitor stormwater, sediment, and receiving water for physical, chemical, and/or biological characteristics. One outfall must represent high-density residential land use and the other represent commercial land use.
- To monitor SWMP effectiveness, no later than December 31, 2010, the City was required to identify two suitable SWMP questions and sites where targeted SWMP effectiveness monitoring can be conducted and develop a monitoring plan for these questions and sites. The proposed effectiveness monitoring is required to answer the following types of questions:
 - How effective is a specific targeted action or a narrow suite of actions?
 - Is the SWMP achieving a targeted environmental outcome?

In addition, the City is required to provide the following monitoring and/or assessment data in each annual report:

- A description of any stormwater monitoring or studies conducted by the City during the reporting period. If stormwater monitoring was conducted on behalf of the City, or if studies or investigations conducted by other entities were reported to the City, a brief description of the type of information gathered or received shall be included in the annual report.
- An assessment of the appropriateness of the BMPs identified by the City for each component of the SWMP, and any changes made, or anticipated to be made, to the BMPs that were previously selected to implement the SWMP and why.

8.2 Current Compliance Activities

Beyond the activities associated with implementing the City SWPPP and performing IDDE field investigations, the City currently does not conduct any water quality monitoring intended to facilitate stormwater management decisions, evaluate or assist in pollutant spill response, or otherwise investigate stormwater quality. The City contracts with the SCD, which conducts monthly water quality sampling on Kulshan and Trumpeter creeks as part of its Citizen Volunteer Water Quality Monitoring Program.

In 2010 the City developed a monitoring plan using the outfall map created for the City's IDDE plan. The City's monitoring plan includes future long-term monitoring at two selected outfalls to be monitored and two effectiveness questions to be answered over time.

8.3 Planned 2012 Compliance Activities

The City created a Water Quality Monitoring Program to maintain compliance as Ecology phases in current and future Permit requirements. Table 8-1 presents the work plan for 2012 SWMP monitoring activities.

Table 8-1. 2012 Monitoring Work Plan				
Task ID	Task Description	Lead	Support	Compliance Time Frame
MNTR-1	Report potential violations of water quality standards per Permit S4F requirements. Educate department staff on obligations under S4F of Permit's Compliance with Standards section.	Public Works	CED	Ongoing.
MNTR-2	Participate in or monitor regional and state monitoring forums (Stormwater Work Group) and future legislative actions in order to influence development of feasible and effective alternative future monitoring requirements.	Public Works	Stormwater Work Group	Ongoing.
MNTR-3	Preparing a future comprehensive, long-term water quality monitoring plan including two components: (1) stormwater monitoring and (2) targeted SWMP effectiveness monitoring.	Public Works	Road Map, Stormwater Work Group	Completed in 2010.
MNTR-4	Identify two outfalls where permanent stormwater sampling stations can be installed and operated for future monitoring.	Public Works		Completed in 2010.
MNTR-5	Summarize annual monitoring activities for the Annual Report conducted by any other entities; identify SWMP updates.	Public Works		The SWMP and Annual Compliance Report submittal is due on or before March 31 of each year.

CITY OF MOUNT VERNON 2012 STORMWATER MANAGEMENT PROGRAM

9. SUMMARY

The City of Mount Vernon is currently in compliance with the Phase II Permit and has planned activities for 2012 to ensure continued compliance. There are multiple tasks that the City has completed and several that the City is planning to align itself with the Permit requirements.

The Public E&O Program has been implemented through the City's contract with the SCD, which has reached out with useful information to the general public, school districts, business owners, commercial property owners, the agricultural community, and the industrial community. In addition, the City works with the Northern Stormwater Outreach Group (SOG) and the Skagit County Public Health Department through the source control inspection program.

The City has developed a system for notifying the public and allowing for comment on the SWMP document each year and presenting the document to the City Council. This allows the public to be involved in the City's stormwater management program.

The City has an ongoing IDDE Program, which includes a spill hotline. Each year the hotline has received more calls from educated citizens who are interested in protecting stormwater quality. City staff have been trained to identify and respond to illicit discharges and connections, and the City tracks inspections and field responses and conducts appropriate reporting for IDDE activities. The City plans to work with SCD to distribute additional educational materials that are directed at IDDE.

The City has adopted and is currently implementing the Ecology 2005 Manual for controlling runoff from new development, redevelopment, and construction sites. The City encourages the use of LID where applicable.

For 2012, the current Phase II Permit has been extended. It is expected that a new Permit will be issued in 2013. Based on the draft Permit language now available, it appears that LID and monitoring requirements will be the most significant changes in the new Permit. Ecology is also in the process of updating the *Stormwater Management Manual for Western Washington* and the Puget Sound Partnership is likewise updating the *LID Guidance Manual for Puget Sound*. Both of these documents will need to be reviewed by the City before they are adopted into code.

Additional information on the City's NPDES program can be found online at http://www.ci.mount-vernion.wa.us/surface_water_utility.

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Abbreviations and Definitions from Permit

APPENDIX A
ABBREVIATIONS AND DEFINITIONS FROM PERMIT

The following definitions and abbreviations are taken directly from the Phase II Permit and are reproduced here for the reader's convenience.

AKART means all known, available, and reasonable methods of prevention, control and treatment. **All known, available and reasonable methods of prevention, control, and treatment** refers to the State Water Pollution Control Act, Chapter 90.48.010 and 90.48.520 RCW.

APWA is the American Public Works Association.

Basin plan is a surface water management process consisting of three parts: a scientific study of the basin's drainage features and their quality; developing actions and recommendations for resolving any deficiencies discovered during the study; and implementing the recommendations, followed by monitoring.

Best management practices (BMPs) are the schedules of activities, prohibitions of practices, maintenance procedures, and structural and/or managerial practices approved by the Department that, when used singly or in combination, prevent or reduce the release of pollutants and other adverse impacts to waters of Washington State.

BMP means best management practice.

CAO means the City Attorney's Office.

CED means the Community and Economic Development Department.

CFR means Code of Federal Regulations.

Component or **Program component** means an element of the SWMP listed in S5 SWMP for Cities, Towns, and Counties or S6 SWMP for Secondary Permittees of this Permit.

CWA means Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Pub.L. 92-500, as amended Pub. L. 95-217, Pub. L. 95-576, Pub. L. (6-483 and Pub. L. 97-117, 33 U.S.C. 1251 et seq.)

Discharge for the purpose of this permit means, unless indicated otherwise, any discharge from an MS4 owned or operated by the Permittee.

Ecology's Western Washington Phase I Municipal Stormwater Permit regulates discharges from municipal separate storm sewers owned or operated by Clark, King, Pierce and Snohomish Counties, and the cities of Seattle and Tacoma.

Ecology's Western Washington Phase II Municipal Stormwater Permit covers certain "small" MS4s.

Entity means another governmental body, or public or private organization, such as another Permittee, a conservation district, or volunteer organization.

EPA means the U.S. Environmental Protection Agency.

Equivalent document means a technical stormwater management manual developed by a state agency, local government, or other entity that includes the Minimum Technical Requirements in Appendix 1 of this Permit. The Department may conditionally approve manuals that do not include the Minimum Technical Requirements in Appendix 1; in general, the BMPs included in those documents may be applied at new development and redevelopment sites, but the Minimum Technical Requirements in Appendix 1 must still be met.

Heavy equipment maintenance or storage yard means an uncovered area where any heavy equipment, such as mowing equipment, excavators, dump trucks, backhoes, or bulldozers are washed or maintained, or where at least five pieces of heavy equipment are stored.

Illicit connection means any manmade conveyance that is connected to a municipal separate storm sewer without a permit, excluding roof drains and other similar type connections. Examples include sanitary sewer connections, floor drains, channels, pipelines, conduits, inlets, or outlets that are connected directly to the MS4.

Illicit discharge means any discharge to a municipal separate storm sewer that is not composed entirely of stormwater except discharges pursuant to an NPDES permit (other than the NPDES permit for discharges from the municipal separate storm sewer) and discharges resulting from fire fighting activities.

IDDE means illicit discharge detection and elimination.

IS means the Information Services department.

Low impact development (LID) means a stormwater management and land development strategy applied at the parcel and subdivision scale that emphasizes conservation and use of on-site natural features integrated with engineered, small-scale hydrologic controls to more closely mimic pre-development hydrologic functions.

Major municipal separate storm sewer outfall means a municipal separate storm sewer outfall from a single pipe with an inside diameter of 36 inches or more, or its equivalent (discharge from a single conveyance other than circular pipe which is associated with a drainage area of more than 50 acres); or for municipal separate storm sewers that receive stormwater from lands zoned for industrial activity (based on comprehensive zoning plans or the equivalent), an outfall that discharges from a single pipe with an inside diameter of 12 inches or more or from its equivalent (discharge from other than a circular pipe associated with a drainage area of 12 acres or more).

*Note: The IDDE program requires mapping of outfalls that are 24 inches or greater in diameter.

Material storage facilities means an uncovered area where bulk materials (liquid, solid, granular, etc.) are stored in piles, barrels, tanks, bins, crates, or other means.

Maximum extent practicable (MEP) refers to paragraph 402(p)(3)(B)(iii) of the federal Clean Water Act which reads as follows: Permits for discharges from municipal storm sewers shall require controls to reduce the discharge of pollutants to the maximum extent practicable, including management practices, control techniques, and system, design, and engineering methods, and other such provisions as the Administrator or the State determines appropriate for the control of such pollutants.

MEP means maximum extent practicable.

MS4: see **Municipal separate storm sewer system**.

MTRs means minimum technical requirements.

Municipal separate storm sewer system (MS4) means a conveyance, or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains):

- (i) owned or operated by a state, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to state law) having jurisdiction over disposal of wastes, stormwater, or other wastes, including special districts under state law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to waters of the United States;
- (ii) designed or used for collecting or conveying stormwater;
- (iii) which is not a combined sewer; and
- (iv) which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

National Pollutant Discharge Elimination System (NPDES) means the national program for issuing, modifying, revoking, and reissuing, terminating, monitoring, and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 402, 318, and 405 of the Federal Clean Water Act, for the discharge of pollutants to surface waters of the state from point sources. These permits are referred to as NPDES permits and, in Washington State, are administered by the Washington Department of Ecology.

Notice of Intent (NOI) means the application for, or a request for coverage under, this General Permit pursuant to WAC 173-226-200.

Outfall means point source as defined by 40 CFR 122.2 at the point where a municipal separate storm sewer discharges to waters of the State and does not include open conveyances connecting two MS4s, or pipes, tunnels, or other conveyances which connect segments of the same stream or other waters of the State and are used to convey waters of the State.

O&E means outreach and education.

O&M means operations and maintenance.

Permittee: Unless otherwise noted, the term “Permittee” includes Permittee, Co-Permittee, and Secondary Permittee, as defined below:

- (i) A “Permittee” is a city, town, or county owning or operating a regulated small MS4 applying and receiving a permit as a single entity.
- (ii) A “Co-Permittee” is any operator of a regulated small MS4 that is applying jointly with another applicant for coverage under this Permit. Co-Permittees own or operate a regulated small MS4 located within or adjacent to another regulated small MS4.
- (iii) A “Secondary Permittee” is an operator of regulated small MS4 that is not a city, town, or county.

RCW means the Revised Code of Washington.

SCD means the Skagit Conservation District.

Small municipal separate storm sewer system or **small MS4** is a conveyance or system of conveyances for municipalities having populations of less than 100,000 according to the 1990 U.S. census. Such systems include road drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, and/or storm drains that are:

- a. Owned or operated by a city, town, county, district, association or other public body created pursuant to State law having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under state law such as a sewer districts, flood control districts or drainage districts, or similar entity.
- b. Designed or used for collecting or conveying stormwater.
- c. Not a combined sewer system,
- d. Not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.
- e. Not defined as “large” or “medium” pursuant to 40 CFR 122.26(b)(4) & (7) or designated under 40 CFR 122.26 (a)(1)(v).

Small MS4s include systems similar to separate storm sewer systems in municipalities such as universities, large publicly owned hospitals, prison complexes, and highways and other thoroughfares. Storm sewer systems in very discrete areas such as individual buildings do not require coverage under this Permit.

Small MS4s do *not* include storm drain systems operated by non-governmental entities such as: individual buildings, private schools, private colleges, private universities, and industrial and commercial entities.

SOPs, or standard operating procedures, are the best practice approach to executing tasks or activities. In this document, they primarily pertain to the activities that will be implemented to protect stormwater quality.

Stormwater means runoff during and following precipitation and snowmelt events, including surface runoff and drainage.

Stormwater associated with industrial and construction activity means the discharge from any conveyance which is used for collecting and conveying stormwater, which is directly related to manufacturing, processing or raw materials storage areas at an industrial plant, or associated with clearing grading and/or excavation, and is required to have an NPDES permit in accordance with 40 CFR 122.26.

Stormwater Management Manual for Western Washington means the five-volume technical manual (Publication Nos. 99-11 through 15 for the 2001 version and Publication Nos. 05-10-029-033 for the 2005 version [the 2005 version replaces the 2001 version]) prepared by Ecology for use by local governments that contains BMPs to prevent, control, or treat pollution in stormwater.

Stormwater Management Program (SWMP) means a set of actions and activities designed to reduce the discharge of pollutants from the regulated small MS4 to the maximum extent practicable and to protect water quality, and comprising the components listed in S5 or S6 of this Permit and any additional actions necessary to meet the requirements of applicable.

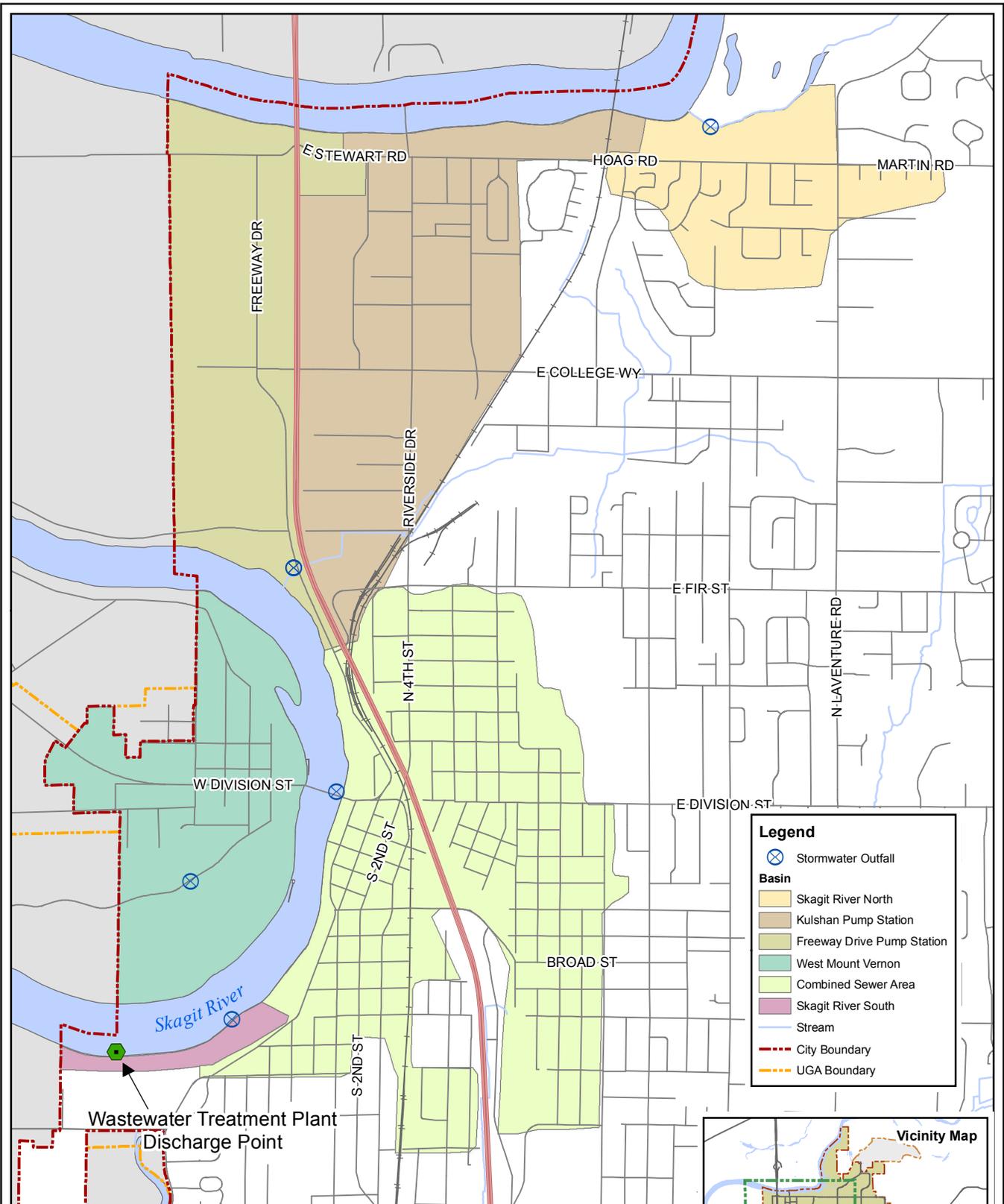
Stormwater pollution prevention plan (SWPPP) means a document that describes measures a municipality takes to prevent or mitigate stormwater pollution.

Total maximum daily load (TMDL) means a regulatory term in the U.S. Clean Water Act (CWA), describing a value of the maximum amount of a pollutant, or total maximum daily load.

WAC means the Washington Administrative Code.

WWCBA means the Washington Wastewater Collection Personnel Association.

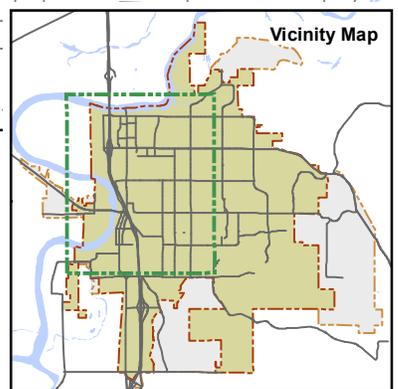
Mount Vernon Storm Sewer System Map



City of Mount Vernon Direct Discharge and CSO Areas

City of Mount Vernon Engineering, January 2012

The true location of any feature shown on this map requires a site-specific evaluation. The information included on this map has been compiled by City of Mount Vernon staff for internal use from a variety of sources. The City of Mount Vernon makes no representations or warranties, expressed or implied, as to the accuracy, completeness, timeliness, or rights to the use of such information. The City of Mount Vernon shall not be liable for any general, special, indirect, incidental, or consequential damages including, but not limited to, lost revenues or lost profits resulting from the use or misuse of the information contained in this map.





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