
Chapter 4

City of Sacramento

4.1 Introduction

This Chapter describes activities conducted by the City of Sacramento's Stormwater Quality Improvement Program (Stormwater Program) during the 2015/2016 fiscal year.

The activities of the Stormwater Program are conducted through the implementation of the following seven (7) components: Program Management, a Construction Element, a Commercial/Industrial Element, a Municipal Operations Element, an Illicit Discharge Element, a Public Outreach Element, and a New Development Element.

Those components of the Stormwater Program are overseen by staff from the Department of Utilities, Engineering and Water Resources Division, Environmental and Regulatory Compliance Section including a Program Supervisor and several Element Managers (Stormwater Program Staff).

This Chapter is formatted to follow the organization and presentation of activities/tasks in the 2008-2013 Work Plans submitted as part of the Sacramento Stormwater Quality Partnership Stormwater Quality Improvement Plan (SQIP) dated November 2009 and adopted by the Regional Water Board on January 29, 2010.

Structure

This Chapter is divided into the following Sections:

- Section 4.1 – Introduction
- Section 4.2 – Program Management
- Section 4.3 – Construction Element
- Section 4.4 – Commercial/Industrial Element
- Section 4.5 – Municipal Operations Element
- Section 4.6 – Illicit Discharge Element
- Section 4.7 – Public Outreach Element
- Section 4.8 – New Development Element

Within each Section, the information is presented as follows:

- Element Introduction
- Element Activities
- Element Effectiveness Assessment
- Assessment Summary and Proposed Element Changes

**CITY OF SACRAMENTO STORMWATER QUALITY IMPROVEMENT PROGRAM
2015/2016 ANNUAL REPORT**

NPDES PERMIT NO. CAS082597; ORDER NO. R5-2008-0142

CERTIFICATION

In accordance with Title 40, Section 122.22, Paragraphs (a)(3), (b)(1) and (d) of the Code of Federal Regulations:

I certify under penalty of law that the City of Sacramento Stormwater Quality Improvement Program Annual Report, dated September 2016, and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including imprisonment for knowing violations.

Executed on the 20 day of September, 2016



Dan Sherry, Engineering Manager
Department of Utilities
City of Sacramento

4.2 Program Management

Element Introduction

The Program Management Section describes activities that are conducted by the City of Sacramento (City) to administer and manage the City's Stormwater Quality Improvement Program (Stormwater Program). Activities covered in this Element include the program strategy, management priorities, the program effectiveness assessment, legal authority, organization, interrelationships, planning and reporting activities, budget and staff resources, and employee training.

The Stormwater Program strategy is to develop and implement programs to reduce or eliminate discharge of pollutants and eliminate prohibited non-stormwater discharges to the City's storm drainage system to the maximum extent practicable (MEP), thereby protecting local receiving waters and complying with federal and state laws and regulations. This strategy supports the Stormwater Program vision to "establish behaviors and attitudes that contribute to the reduction of urban runoff pollution and that help promote community stewardship of local creeks and rivers, thus improving the health of local waterways."

The County of Sacramento and the cities of Sacramento, Citrus Heights, Elk Grove, Folsom, Galt, and Rancho Cordova (Permittees) are subject to Waste Discharge Requirements, National Pollutant Discharge Elimination System (NPDES) Permit No. CAS082597 (Stormwater Permit) issued by the Central Valley Regional Water Quality Control Board (Regional Water Board). This Stormwater Permit was adopted in 2008 under Order No. R5-2008-0142 that expired on September 11, 2013, and was administratively extended through the submittal of the Permittees' March 2013 Report of Waste Discharge (ROWD) and Long Term Effectiveness Assessment (LTEA). Reissuance of the Permittees' individual Stormwater Permit was delayed to allow for the Regional Water Board to develop a Region-wide Municipal Separate Storm Sewer System (MS4) general permit. On April 17, 2015, the Regional Water Board renewed the Permittees' individual Stormwater Permit for a limited term (Limited Term Stormwater Permit) to allow the option to participate in a Regional Monitoring Program (e.g., the Delta RMP). The Limited Term Stormwater Permit was issued for eighteen (18) months and requires the continued implementation of the Permittees' Stormwater Quality Improvement Plan (SQIP) dated November 2009, adopted by the Regional Water Board on January 29, 2010 (Resolution No. R5-2010-0017). The proposed SQIP amendments provided in the 2013 ROWD were not incorporated in the Limited Term Stormwater Permit due to the limited term of the order. The Region-wide MS4 Permit, General Permit for Discharges from Municipal Separate Storm Sewer Systems (Order No. R5-2016-0040, NPDES No. CAS0085324), was adopted on June 23, 2016 and will be effective on October 1, 2016. The Permittees will seek coverage under this new Region-wide Permit when our Limited Term Stormwater Permit expires on October 17, 2016.

The City derives its legal authority to implement the Stormwater Program from the California Water Code, the California Environmental Quality Act and Subdivision Map Act, and two local ordinances: the Stormwater Management and Discharge Control Ordinance (Municipal Code 13.16) and the Grading and Erosion and Sediment Control Ordinance (Municipal Code 15.88).

The City as a whole, including elected officials, department heads and city employees, is responsible for compliance with the Stormwater Permit and the City's responsibilities within the SQIP. The Department of Utilities (DOU) is the department responsible for construction, maintenance and operation of the storm drainage systems, as well as the administrative and management functions of the Stormwater Program.

Element Activities

As required by the Permit, SQIP and Annual Work Plan, the following activities were performed under this element.

PM.1 Legal Authority

No tasks required for FY 15/16.

PM.2 Regulatory Submittal

PM.2.1 Submit Sacramento City's Annual Work Plan

PERMIT REFERENCE	PERFORMANCE STANDARD
D.3.a	N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

The City's 2016/2017 Annual Work Plan was submitted to the Regional Water Board on April 29, 2016. The work plan tasks are numbered annually to provide easy cross-referencing opportunities between the work plans and the annual reports. See the Joint Annual Report for information on the regional activities work plan for 2016/2017 fiscal year.

PM.2.2 Submit Sacramento City's Annual Report including fiscal analysis

PERMIT REFERENCE	PERFORMANCE STANDARD
D.3.b	N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

The City's 2014/2015 Annual Report and the Sacramento Stormwater Quality Partnership's (Partnership's) or Permittees' 2014/2015 Annual Report, both including a fiscal analysis, were submitted to the Regional Water Board on October 1, 2015.

PM.2.3 Complete Annual Work Plan assessment activities and report in the Sacramento City Annual Report.

PERMIT REFERENCE	PERFORMANCE STANDARD
D.3.b	N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

The 2009 SQIP, Section 2.3, outlines the Permittees' effectiveness assessment approach, which was based on the 2007 CASQA Guidance Manual. The overall City Stormwater Program and Element Effectiveness Assessment was presented in the Long Term Effectiveness Assessment (LTEA) submitted to the Regional Water Board on March 15, 2013. Due to the limited term of the current Limited Term Stormwater Permit, the proposed amendments to the SQIP provided in the 2013 ROWD and LTEA were not incorporated into the Permit.

The Limited Term Stormwater Permit only required Outcome Level 1 effectiveness assessments. However, the 2015/2016 Annual Report includes data for specific key indicator assessments that were scheduled in the 2015/2016 Work Plan to continue the City's data set. This key indicator assessment data is reported under the individual Program Element sections (4.2 through 4.8).

The Stormwater Program Manager presented a portion of the California Stormwater Quality Association's effectiveness webinar titled "Lessons Learned from Program Effectiveness Assessment Development and Implementation" on December 2, 2015. See **Appendix 4A2** for a copy of the webinar presentation.

PM.2.4 Conduct the Sacramento City Annual Fiscal Summary

PERMIT REFERENCE D.7	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

The costs associated with the operation and maintenance of the City’s drainage system and management of the Stormwater Program are funded by an existing stormwater utility fee and development fees. The City’s drainage rates have not been increased since the approval of Proposition 218 in November 1996 by California voters. Proposition 218 requires all drainage rate increases to be approved by the voters, and the City has not proposed any such rate increase since the enactment of Proposition 218.

Table 4.2-1 presents an estimated summary of the expenditures incurred during the 2015/2016 fiscal year and the 2016/2017 fiscal year proposed budget related to the City’s Stormwater Program activities.

Table 4.2-1 - Fiscal Summary

Elements and Programs	2015/2016 Expenditures ¹	2016/2017 Budget ¹
<u>City Activities:</u>		
Program Management	\$ 269,694	\$ 331,400
Construction	\$ 241,470	\$ 395,411
Commercial/Industrial	\$ 28,288	\$ 50,247
Municipal Operations	\$ 248,829	\$ 303,916
Illicit Discharge	\$ 63,960	\$ 84,084
Public Outreach Program ²	\$ 213,113	\$ 306,787
New Development ²	\$ 152,829	\$ 213,992
Monitoring Program ³	\$ 434,671	\$ 582,698
Target Pollutant Program	\$ 73,955	\$ 128,387
Other Individual Activities ⁴	Not reported	Not reported
Total	\$1,726,809	\$2,396,922

¹ Expenditures include labor, benefits, overhead and direct costs.

² Includes City-specific and Regional activity costs.

³ Includes Special Studies

⁴ Staff throughout the City implement the SQIP. Costs for these activities (e.g., conveyance and sump maintenance, street sweeping, first response staff, etc.) are not included in amounts listed

PM.2.5 Provide the Sacramento City program organization information

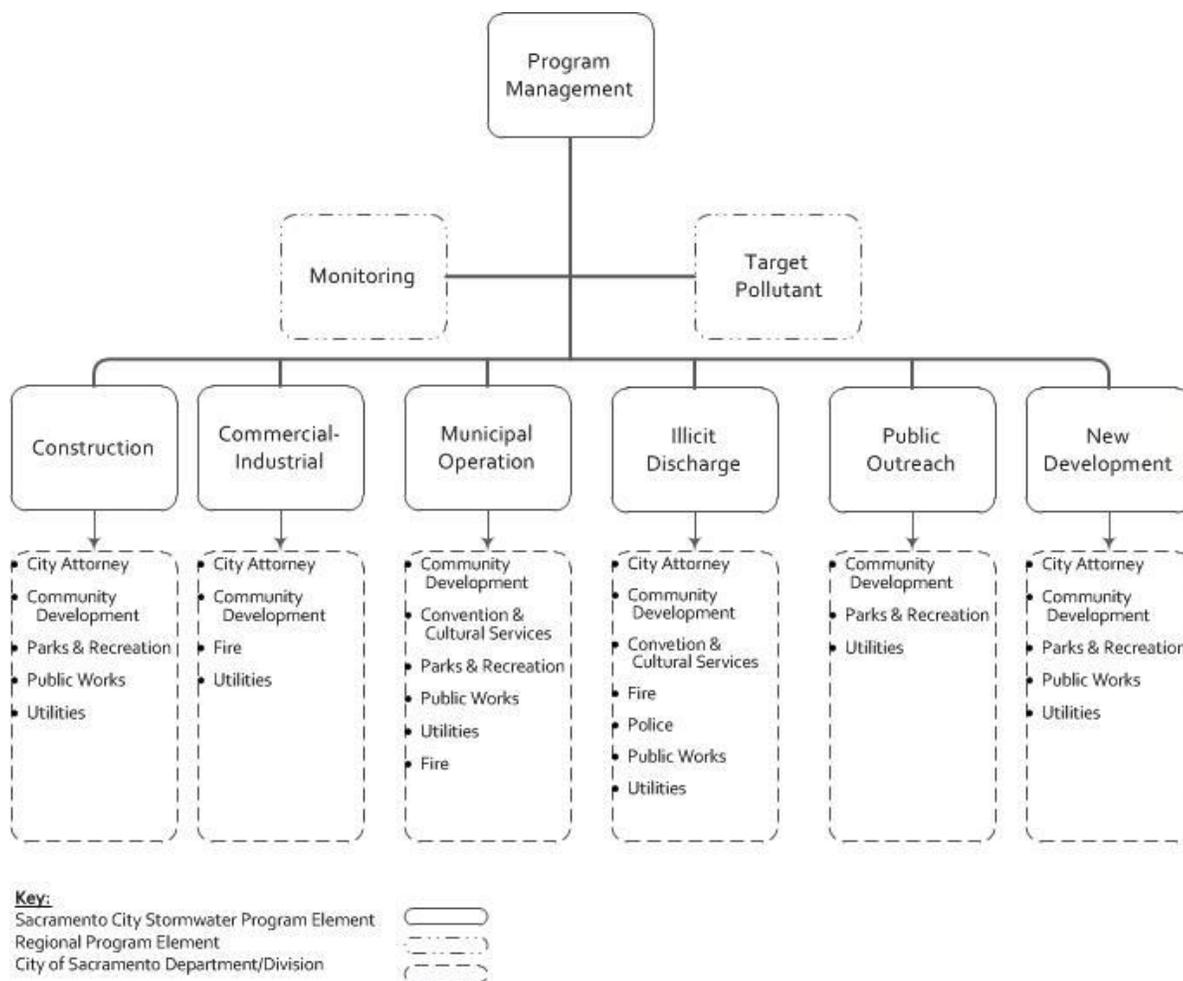
PERMIT REFERENCE D.2	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

Figure 4.2-2 on the next page includes a list of the various departments within the City that implement components of the Stormwater Permit or that are affected by the stormwater requirements. The Stormwater Program organization and structure has been updated to reflect new names for certain City departments and/or divisions. Some City Departments have direct responsibilities for pollution prevention programs. For

example, Public Works provides recycling, household hazardous waste collection, and street sweeping programs through its Solid Waste Division.

Figure 4.2-2 – City of Sacramento Stormwater Management Program Organization and Interdepartmental Relationships



The City as a whole, including elected officials, department heads, and city employees, is responsible for compliance with the Stormwater Permit requirements and of the City’s responsibilities within the SQIP. The current organizational structure for the City is provided in **Appendix 4A1**.

The administrative and management functions of the Stormwater Program within the City are provided by the Department of Utilities Engineering and Water Resources Division, Environmental and Regulatory Compliance Section. The Supervising Engineer for the Environmental and Regulatory Compliance Section is the City of Sacramento Stormwater Program Manager and is responsible for the Sacramento City Stormwater Program development and implementation. The contact information for the Program Manager during the 2015/2016 fiscal year was as follows:

Sherill Huun
 Supervising Engineer
 City of Sacramento, Department of Utilities
 1395 35th Avenue
 Sacramento, CA 95822
 916-808-1455
 shuun@cityofsacramento.org

Stormwater Program staff assignments include responsibilities associated with the Program Elements; Partnership Activities such as the Monitoring Program and the Target Pollutant Program; as well as assistance with other program management activities (e.g., coordination with other agencies). See **Table 4.2-3** below for a summary of the sections' resources and responsibilities for the 2015/2016 fiscal year.

Table 4.2-3 – Program Elements, Resources and Responsibilities

Element	Department(s)/Division(s) / Contractor(s)	Role/ Responsibility	No. Agency Staff (FTE)*
Program Management	Department of Utilities, Engineering & Water Resources Division, Environmental & Regulatory Compliance, Stormwater Program Staff (Stormwater Staff)	Lead	0.74
Construction	Stormwater Staff	Element Management/Inspection	1.08
Commercial / Industrial	Stormwater Staff	Element Management/Inspection	0.11
	County of Sacramento, Environmental Management Department (EMD)	Commercial/Industrial Inspections	**
Municipal Operations	Stormwater Staff	Element Management	0.92
	Department of Utilities, Operations & Maintenance	Conveyance Maintenance	***
	Department of Utilities, Operations & Maintenance	Sump Maintenance	***
	Department of Public Works, Solid Waste	Street Sweeping	***
	Department of Public Works, Solid Waste	Green Waste/Yard Waste	***
	Fire Department	Hazardous Materials (HAZMAT)	***
Illicit Discharge	Stormwater Staff	Element Management/Response	0.24
	Department of Utilities, Operations & Maintenance	Illicit Discharge Response and Abatement	***
Public Outreach	Stormwater Staff	Element Management	0.21
New Development	Stormwater Staff	Element Management/Inspection	0.54
	Community Development Department	Fee Collection, CEQA, Entitlements	n/a
	Department of Utilities, Engineering & Water Resources Division, Development Review Section	Environmental, entitlement and plan review	n/a
Target Pollutant Reduction	Stormwater Staff	Element Management	0.18
Monitoring	Stormwater Staff	Element Management	0.39
		Total Municipal Staff:	4.41

* FTE: Full Time Equivalent; Includes Stormwater Management Program Staff only.

** Inspection provided by Sacramento County EMD. FTEs not included.

*** City staff from other departments, division or sections. FTEs not currently tracked.

Element Effectiveness Assessment

On April 17, 2015, the Regional Water Board renewed the Permittees' 2008 Permit for a limited term (Limited Term Stormwater Permit) to allow the option to participate in a Regional Monitoring Program (e.g., the Delta RMP). Under the Limited Term Stormwater Permit, only Outcome Level 1 effectiveness assessment is required. The overall effectiveness of the SQIP and the individual Elements in reducing stormwater pollution to the maximum extent practicable, achieving compliance with water quality standards in receiving waters, and meeting performance standards was provided in the Long Term Effectiveness Assessment (LTEA) submitted to the Regional Water Board on March 15, 2013. The previous section described activities conducted during the fiscal year demonstrating assessment at Effectiveness Level 1 (documenting activities).

Assessment Summary and Proposed Element Changes

Work Plan Task Completion Summary

All tasks in the Program Management Section were completed in accordance with the 2015/2016 Annual Work Plan.

Work Plan and/or SQIP Revisions and Changes

The Report of Waste Discharge and LTEA submitted to the Regional Water Board on March 15, 2013 included SQIP amendments in the form of proposed 5-year Work Plans for each Program and Element for the next permit term. The City plans to consider the key recommendations from the LTEA and the proposed 5-year work plans when developing the prioritized pollutant list, reasonable assurance analysis and updated SQIP (i.e., Storm Water Management Plan (SWMP)) as a part of the new Region-wide MS4 Permit implementation.

The 2016/2017 Work Plan will be revised to be consistent with the Region-wide MS4 Permit requirements (e.g., reporting and effectiveness evaluations). The updated 2016/2017 Work Plan will be submitted with the NOI submittal in November 2016. Modifications to the Program Management Work Plan may include updating the reporting tasks and Permit deliverables.

4.3 Construction Element

Element Introduction

The Construction Element addresses the control and reduction of pollutants associated with construction activities that can potentially be discharged to the drainage system of the City of Sacramento (City) and/or to the Sacramento River, American River, and their respective tributaries. All construction projects within the City are required to comply with the City’s Stormwater Management and Discharge Control Ordinance and the Grading, Erosion and Sediment Control Ordinance (Ordinances). Additionally, those projects where the disturbed area(s) is one acre or more are required to comply with the State Construction General Permit by properly and effectively implementing their respective Stormwater Pollution Prevention Plan (SWPPP) to help accomplish the goal of this element.

The goal of the Construction Element is to reduce the discharge of stormwater pollutants to the maximum extent practicable (MEP) by requiring construction sites to reduce sediment in site runoff and other pollutants such as litter and concrete wastes through good housekeeping procedures and proper waste management. Excessive discharge of sediment can cause erosion and harm creek habitat through both scour and smothering of spawning areas.

This goal is accomplished through the following strategies: ensuring proper implementation of the City’s legal authority to ensure that all construction activities are conducted to City standards and specifications; ensuring that all private and municipal development projects comply with local and State requirements for construction sites; ensuring that all private and municipal projects are frequently inspected for compliance with local and State water quality protection standards and issuing enforcement actions to those that failed to or that are at risk of failing to comply with water quality regulations; and providing training to personnel that is directly involved in any construction activity, as well as outreach to the construction and development communities to ensure that their projects comply with local and State regulations.

These strategies are implemented by the Department of Utilities (DOU) Engineering and Water Resources Division, Environmental and Regulatory Compliance Section, Stormwater Program Staff; the DOU Engineering and Water Resources Division, Development Review staff; Project Managers throughout City Departments who have an active role in the design and/or approval of Erosion and Sediment Control (ESC) construction drawings prior to the beginning of any construction project; and by Stormwater Construction Inspectors and other City inspectors who ensure that all contractors, for private and municipal development projects, comply with the City’s Ordinances.

Element Activities

As required by the Permit, SQIP and Annual Work Plan, the following activities were performed under this element.

CO.1 Legal Authority

No tasks required for the 2015/2016 fiscal year.

CO.2 Permitting, Inspection and Enforcement

CO.2.1 Participate in CEQA documents review and provide comments

PERMIT REFERENCE	PERFORMANCE STANDARD
D.8.a.i	N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

Stormwater Program staff reviewed three (3) CEQA documents during the 2015/2016 fiscal year to ensure that all regulated development projects incorporate and/or comply with all the necessary water quality

requirements for construction and post-construction stormwater management. The documents were found to adequately cover the construction and post construction requirements, so no revisions were needed.

CO.2.2 Review and condition regulated private development projects through the entitlement process

PERMIT REFERENCE D.8.a.i	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

Development Review staff continues to review all tentative map and special permit applications and to apply standard stormwater quality conditions to proposed projects within the City limits.

All development projects that disturb soil are conditioned to prepare an erosion and sediment control (ESC) plan to comply with the City of Sacramento's Grading, Erosion and Sediment Control Ordinance; to obtain a State General Construction Permit, if the project disturbs one (1) or more acres of land; and to incorporate applicable post-construction source and treatment control measures in accordance with the Stormwater Quality Design Manual for the Sacramento and South Placer Region (May 2007). See Task ND.2.3 and ND.3.2 for more information on the updated Design Manual and post construction stormwater conditions.

Standard conditions and the list of projects conditioned during the 2015/2016 fiscal year are included in **Appendix 4B**. Stormwater Program staff continues to provide support to Development Review staff to ensure proper implementation of the development standards throughout the entitlement process.

CO.2.3 Ensure that development projects include Erosion, Sediment and Pollution Control plans per City code

PERMIT REFERENCE D.8.c.v	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, the City's Department of Public Works and the Building Division of the City's Community Development Department issued 37 building permits (including private and public improvements) for 22 development projects that required the review and the approval of ESC plans. Development Review staff ensured that 37 of the approved improvement plans included ESC plans and were in compliance with the Ordinances before the building permits were issued.

See **Appendix 4C** for a list of all projects reviewed during the 2015/2016 fiscal year.

CO.2.4 Monthly assess the quality of the ESC plans for 30% of permits issued for regulated private development projects

PERMIT REFERENCE D.8.a.ii	PERFORMANCE STANDARD All regulated projects include adequate ESC plans
<input checked="" type="checkbox"/> KEY INDICATOR	
5 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, Stormwater Program staff reviewed and evaluated approximately 92 percent (11 out of 12) of the building permits issued by the Building Division and Public Works Department

that required the State Construction General Permit. Stormwater Program staff also reviewed and evaluated ten permits that were less than 1 acre in addition to the regulated projects.

See **Appendix 4G** for a list of all projects assessed during the 2015/2016 fiscal year.

CO.2.5 Ensure that development projects comply with the mandated State Construction General Permit by verifying that a SWPPP is submitted and that a WDID is obtained for all projects that disturb one or more acres of land

PERMIT REFERENCE D.8.c.v	PERFORMANCE STANDARD Prior to the issuance of a building or grading permit a SWPPP and WDID are obtained for all projects that disturb one or more acres of land
<input checked="" type="checkbox"/> KEY INDICATOR	
3 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, 100 percent of all issued building permits for projects that disturbed one or more acres of land and that were reviewed by Development Review staff submitted a State-mandated SWPPP and obtained a WDID number prior to the issuance of those building permits. Fulfillment of this requirement was also verified by the Stormwater Program staff via the State’s SMARTS database system.

See **Appendix 4C** for a list of all projects reviewed during the 2015/2016 fiscal year including the projects requiring State Construction General Permit coverage. This list also includes other projects that did not require a State Construction General Permit.

CO.2.6 Ensure that all municipal construction projects that disturb one or more acres of land comply with the State Construction General Permit requirements and, for those projects disturbing less than one acre, at a minimum submit ESC plans and/or notes

PERMIT REFERENCE D.8.a.vi	PERFORMANCE STANDARD All municipal construction projects disturbing greater than or equal to one acre file for a NOI
<input checked="" type="checkbox"/> KEY INDICATOR	
3 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year there were no capital improvement projects that required a State Construction General Permit.

Although most of the municipal projects that disturbed less than one acre of land did not include ESC plans in their respective design plans, the Departments of Public Works (now includes General Services), Utilities, and Parks and Recreation required their respective contractor(s) and/or consultant(s) to develop and implement the appropriate ESC plan requirements for each of their projects.

During the 2015/2016 fiscal year, Stormwater Program staff assisted other Departments’ staff with their respective projects to ensure that ESC plans were prepared per City standards and were properly implemented.

CO.2.7 Inspect private construction projects that disturb one or more acres of land to ensure that the required ESC plan measures are implemented and maintained

PERMIT REFERENCE D.8.a.vi	PERFORMANCE STANDARD All regulated construction sites implement and maintain the required ESC plan measures
<input checked="" type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, the Building Division and the Department of Public Works issued 12 building permits for private development projects that required coverage under the State's Construction General Permit. These projects were inspected to ensure proper ESC plan implementation and maintenance of construction BMPs was conducted. Inspections were conducted on a bi-weekly basis for projects designated as a high threat to water quality and at least once a month for projects designated as a moderate threat to water quality. Applicable private development projects from previous fiscal years that were still under construction during the 2015/2016 fiscal year were also inspected at the same frequency.

See **Appendix 4D** for the complete list of sites inspected during the 2015/2016 fiscal year. The list also includes some projects that disturbed less than one acre of land; however, these projects were inspected on a different inspection frequency based on their respective risks to water quality and/or previous violations of City ordinances and requirements. Projects that disturb one or more acres of land, have previous violations of the Stormwater Ordinance and/or are near a body of water were designated as high risk to water quality and thus inspected twice a month. If the project was designated as a moderate threat to water quality, the project was inspected monthly, and if the project was designated as a low risk to water quality and had no prior violations, the project was inspected every 60 days.

See **Appendix 4G** for a list of all projects assessed during the 2015/2016 fiscal year. These projects were inspected by Stormwater Program staff in an effort to identify any deficiencies in the design of ESC plans and/or to ensure that proper implementation of said ESC plans was conducted.

CO.2.8 Inspect municipal construction projects to ensure the required ESC plan measures are implemented and maintained

PERMIT REFERENCE D.8.a.vi	PERFORMANCE STANDARD All regulated construction sites implement and maintain the required ESC plan measures
<input checked="" type="checkbox"/> KEY INDICATOR	
5 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, City construction inspectors for the Departments of Public Works (now includes General Services), and Parks and Recreation continued to inspect their respective projects on a bi-weekly basis to ensure that contractors properly implemented and maintained all the required ESC plan measures. The Department of Public Works conducts inspections for DOU construction projects.

CO.2.9 Issue enforcement actions when warranted

PERMIT REFERENCE D.8.a.vi	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, the Stormwater Program Inspector issued 39 verbal warnings and 40 notices to comply. There were no other enforcement actions during the 2015/2016 fiscal year. See **Appendix 4D** for a summary of all enforcement actions issued during the 2015/2016 fiscal year.

CO.2.10 Continue maintaining priority inspection database for construction projects based on project type, size, construction schedule, and levels of impacts

PERMIT REFERENCE D.8.a.v	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, Stormwater Program staff continued to maintain the Construction Database to track private construction projects.

In the Construction Database, Stormwater Program staff prioritizes construction sites as high, moderate or low threats to water quality. Factors considered during the prioritization include project size, land use, phase of construction, construction activity level, presence of erosive soils, proximity to receiving waters, number of previous stormwater violations and quality of the site's BMP implementation.

CO.2.11 Refer State Construction General Permit non-filer projects to the Regional Board

PERMIT REFERENCE D.8.c.v	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, no projects needed to be referred to the Regional Water Board as "non-filers."

CO.3 Training and Outreach

CO.3.1 Continue to train annually development and environmental review staff on stormwater quality requirements for development projects

PERMIT REFERENCE D.8.a. viii	PERFORMANCE STANDARD All trained staff understand stormwater quality requirements for development projects
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, Stormwater Program staff provided annual stormwater training to Development Review and environmental review staff. These groups were provided with a general overview of the City requirements and State Construction General Permit requirements.

See **Appendix 4E** for information on these training sessions provided to this group that also included the City planning staff.

In addition to the annual stormwater training session, Stormwater Program staff also provided as-needed technical assistance to the Development Review staff during their review of various development projects throughout the 2015/2016 fiscal year.

CO.3.2 Continue to train annually project managers from General Services, Transportation, Parks and Utilities department on stormwater quality requirements for municipal projects

PERMIT REFERENCE D.8.a. viii	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, Stormwater Program staff provided annual stormwater training to personnel from the Departments of Public Works (now includes General Services), Parks and Recreation, and Utilities that were directly involved in construction-related activities. Annual stormwater training sessions during the 2015/2016 fiscal year covered a general overview of the City's and State's stormwater requirements, roles and responsibilities required to comply with City and State requirements, and various examples of stormwater quality violations, with an emphasis on proper BMP selection. See **Appendix 4E** for information on the training provided to these groups.

CO.3.3 Continue to train annually City inspectors from Utilities, Transportation, Parks and General Services on current issues concerning stormwater quality and proper implementation of ESC plan measures on municipal projects

PERMIT REFERENCE D.8.a. viii	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

All targeted groups were trained with their respective project managers. See section CO.3.2 for a discussion of the training provided to these groups.

CO.3.4 Conduct pre-wet season forum and/or distribute rainy season reminder (winterization) letter in September or October

PERMIT REFERENCE D.8.a.viii	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, Stormwater Program staff provided the City's annual "Rainy Season Preparation and Winterization Reminder" letter to the majority of active construction sites prior to the start of the wet season. See **Appendix 4F** for a copy of this letter.

CO.3.5 Conduct regular meetings with City Stormwater Program inspector regarding private construction site compliance

PERMIT REFERENCE D.8.c	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the second half of the 2015/2016 fiscal year, the DOU acquired a new Stormwater Program inspector, whom was trained on the City’s and State’s stormwater requirements.

Element Effectiveness Assessment

On April 17, 2015, the Regional Water Board renewed the Partnership’s 2008 Permit for a limited term (Limited Term Permit) to allow the option to participate in a Regional Monitoring Program (e.g., the Delta RMP). Under the Limited Term Permit, only Outcome Level 1 effectiveness assessment is required. The overall effectiveness of the SQIP and the individual Elements in reducing stormwater pollution to the maximum extent practicable, achieving compliance with water quality standards in receiving waters, and meeting performance standards was provided in the Long Term Effectiveness Assessment (LTEA) submitted to the Regional Water Board on March 15, 2013.

The following Effectiveness level 2 and above activities are tracked and reported to be used for future assessment of this program element.

The following activities are assessed in this section:

Task Number	Activity/Task	Performance Standard / Target	FY 15/16 Assessment Outcome*
CO.2.4	Monthly assess the quality of the ESC plans for 30% of permits issued for regulated private development projects	All regulated projects include adequate ESC plans	3
CO.2.5	Ensure that development projects comply with the mandated State Construction General Permit by verifying that a SWPPP is submitted and that a WDID is obtained for all projects that disturb one or more acres of land	Prior to the issuance of a building or grading permit a SWPPP and WDID are obtained for all projects that disturb one or more acres of land	3
CO.2.6	Ensure that all municipal construction projects that disturb one or more acres of land comply with the State Construction General Permit requirements and, for those projects disturbing less than one acre, at a minimum submit ESC plans and/or notes	All municipal construction projects disturbing greater than or equal to one acre file for a NOI	3
CO.2.8	Inspect municipal construction projects to ensure the required ESC plan measures are implemented and maintained	All regulated construction sites implement and maintain the required ESC plan measures	3

*Assessment outcome levels may vary throughout the permit term. See the SQIP for information on the progression of key indicator outcome levels.

Construction Element Assessment Outcomes

CO.2.4 Monthly assess the quality of the ESC plans for 30% of permits issued for regulated private development projects

During the 2015/2016 fiscal year, Stormwater Program staff reviewed and evaluated 92 percent (11 out of 12) of the approved plans for private development projects that required coverage under the State’s Construction General Permit. Most of the approved plans, not only included the minimum required ESC measures (i.e. perimeter controls, drain inlet protections, concrete wash-out areas, construction entrances, source control measures, etc.), but also included designated areas for stockpiles, portable toilets, and/or storage areas. Stormwater Program staff also reviewed the ESC plans for several other private development projects that did not required coverage under the State’s Construction General Permit and most of them complied with the City’s Erosion, Sediment and Pollution control plan requirements.

Based on this review of 92% of all approved permits, this task meets the performance standard (at an Outcome Level of Level 3 – Change in Behavior) that all applicable projects include adequate ESC plans.

See **Appendix 4G** for a summary of all the plans assessed during the 2015/2016 fiscal year.

CO.2.5 Ensure that development projects comply with the mandated State Construction General Permit by verifying that a SWPPP is submitted and that a WDID is obtained for all projects that disturb one or more acres of land

Development Review staff and Stormwater Program staff verified that all building permits for projects that disturbed one or more acres of land submitted a State-mandated SWPPP and obtained a WDID number prior to the issuance of those building permits. Thus, 100 percent of all applicable projects complied with the State mandates to file a Notice of Intent and to submit a SWPPP prior to the issuance of their respective building permits. Having all projects obtain a WDID number and submit a SWPPP qualifies as an Outcome Level of Level 3 – Change in Behavior. Thus, this task meets its performance standard for the 2015/2016 fiscal year.

CO.2.6 Ensure that all municipal construction projects that disturb one or more acres of land comply with the State Construction General Permit requirements and, for those projects disturbing less than one acre, at a minimum submit ESC plans and/or notes

All of the applicable municipal projects (those that disturbed one or more acres of land) that were under construction during the 2015/2016 fiscal year filed a notice of intent and submitted their respective SWPPP to the State Water Board. This was verified by the Stormwater Program staff via the State's SMARTS database. Also, projects that disturbed less than one acre of land and/or were not required to obtain the mandated State Construction General Permit incorporated ESC requirements in their respective construction specifications and/or required the contractors to provide an ESC plan that complied with all City requirements and standards. The contractors for some of these projects submitted a SWPPP for their respective projects, even though, said projects only require a City approved Erosion, Sediment and Pollution control plan. The submitted SWPPPs were reviewed by Stormwater Program staff and they all met the necessary requirements for the City. Ensuring that these requirements were met qualifies as an Outcome Level of Level 3 – Change in Behavior. Thus, this task meets its performance standard for the 2015/2016 fiscal year.

CO.2.8 Inspect municipal construction projects to ensure the required ESC plan measures are implemented and maintained

During the 2015/2016 fiscal year, Stormwater Program staff did not evaluate nor inspect any municipal projects due to the fact that there were no new municipal projects that required the State's Construction General Permit during the fiscal year. However, inspectors from each department ensure that all other municipal projects complied with the City's Erosion, Sediment and Pollution Control plan requirements for each of their projects.

Assessment Summary and Proposed Element Changes

Work Plan Task Completion Summary

All tasks were completed per the Annual Work Plan except the C0.2.8 assessment of municipal projects by stormwater program staff.

Work Plan and/or SQIP Revisions and Changes

The Report of Waste Discharge and LTEA submitted to the Regional Water Board on March 15, 2013 included SQIP amendments in the form of proposed 5-year Work Plans for each Program and Element for the next permit term. These proposed SQIP amendments were not incorporated in the Limited Term Stormwater Permit due to the limited term of the order.

The City plans to obtain coverage under the new Region-wide MS4 Permit (Order No. R5-2016-0040, NPDES No. CAS0085324) during the 2016/2017 fiscal year. The SQIP will be updated in accordance with this Permit and the associated schedule of deliverables. The 2016/2017 Work Plan will be revised to be consistent with the Region-wide MS4 Permit requirements (e.g., reporting and effectiveness evaluations). The updated 2016/2017 Work Plan will be submitted with the NOI submittal in November 2016.

4.4 Commercial/Industrial Element

Element Introduction

The Commercial/Industrial Element Activities documented in this report are separated into two sections.

Activities conducted by the Sacramento Stormwater Quality Partnership (Partnership) and the Sacramento County Environmental Management Division (EMD) Commercial and Industrial Stormwater Compliance Program described in Section 2.7 of the 2009 Stormwater Quality Improvement Plan (SQIP) are reported in Section 2.7 of this 2015/2016 Annual Report.

Activities conducted by the City of Sacramento (City) through the Department of Utilities Engineering and Water Resources Division, Environmental and Regulatory Compliance Section Stormwater Program staff (Stormwater Program staff) described in Section 4.4 of the 2009 SQIP are reported in Section 4.4 of this 2015/2016 Annual Report.

The goal of the Commercial/Industrial Element is to reduce or eliminate the discharge of pollutants that are produced from all types of business activities to the Sacramento River, the American River and/or their respective tributaries, via the City's drainage system (e.g., drain inlets, roadside ditches, pump stations, direct connections, etc.), to the Maximum Extent Practicable (MEP). Thus, the City, in conjunction with the Sacramento County EMD, developed and continues to implement programs that investigate, regulate, and/or educate owners, operators, and/or tenants of industrial and commercial businesses within the City.

The goal of this Element is accomplished through the following strategies: use of legal authority and enforcement of the City's Stormwater Management and Discharge Control Ordinance (Stormwater Ordinance), triennial inspections of certain groups of industrial and commercial facilities (conducted by EMD), adequate response by City staff to complaint-based discharges, and training and outreach.

Element Activities

As required by the Permit, SQIP and Annual Work Plan, the following activities were performed under this element.

CI.1 Legal Authority

No tasks planned for the 2015/2016 fiscal year.

CI.2 Complaint-based Storm Water Compliance Program (CBSCP)

CI.2.1 Investigate business-related complaints

PERMIT REFERENCE	PERFORMANCE STANDARD
D.9.a.iii-viii	N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, Stormwater Program staff and drainage field services received and responded to 21 complaints related to potential water quality issues. These complaints include both business-related complaints and illicit discharge complaints discussed further in Task ID.2.2 of this Chapter.

Upon investigation of each reported call, Stormwater Program staff assessed each complaint as follows: 17 of the complaint calls were in violation of the City's Stormwater Ordinance, two (2) did not violate the Stormwater Ordinance but had the potential to discharge pollutants to the City's drainage system and/or a waterway and were abated, one (1) of those complaints discharged into to the City's combined sewer system, and one (1) complaint proved to be unfounded or posed very little risk to water quality.

In some cases, where there was a violation of the Stormwater Ordinance, Stormwater Program staff revisited the sites to ensure that required mitigation measures were properly implemented and/or that the issue was resolved. In the cases where there was no violation of the Stormwater Ordinance but where there was the potential to discharge pollutants to the City's drainage system, information on preventive measures or proper BMPs were provided to the business owners or operators or residents at the time of the initial investigation. In the cases where there was no potential risk to water quality, Stormwater Program staff still provided educational brochures on water quality.

Stormwater Program staff is required to investigate potential calls regarding possible water quality issues within five days of the initial call being reported to them or within 24 hours if the potential discharge consists of hazardous materials. During the 2015/2016 fiscal year, Stormwater Program staff investigated 100 percent (21 out of 21) of all reported calls within 24 hours of being reported, regardless of the type of discharge.

Additionally, EMD conducts triennial stormwater compliance inspections and associated enforcement on behalf of all the Permittees for priority commercial and industrial facilities. These priority facilities are: facilities with coverage under the State Industrial General Permit; auto body shops; auto repair shops; auto dealers; equipment rental facilities; kennels; nurseries; retail gasoline outlets; and restaurants. Stormwater Program staff responds to complaints involving stormwater quality issues at all other businesses within the City limits and conducts associated enforcement at those businesses. During the 2015/2016 fiscal year, EMD inspected 448 such facilities within the City limits. Please refer to Section 2.7 of the Partnership 2015/2016 Joint Annual Report for additional information on all the facilities inspected by EMD during the 2015/2016 fiscal year.

CI.2.2 Continue to conduct enforcement

PERMIT REFERENCE	PERFORMANCE STANDARD
D.9.a.iii-viii	Reduction in the number of repeat violations from the previous year
<input checked="" type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

The City continuously enforces its Stormwater Ordinance by investigating all of the reported possible violations to water quality requirements by industries and businesses, issuing enforcement actions to any potential and/or actual discharges to the City's drainage system, and regulating industries of concern.

During the 2015/2016 fiscal year, the Stormwater Program staff responded to 21 illicit discharge calls which resulted in 19 enforcement actions (some calls lead to multiple site visits and possibly multiple enforcement actions). Please refer to Section 4.6 – Illicit Discharges Element, Task ID.2.5 of this Chapter for a detailed accounting of these enforcement actions.

CI.2.3 Maintain and update database with inspection, enforcement and outreach data

PERMIT REFERENCE	PERFORMANCE STANDARD
D.9.a.i	N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

Stormwater Program staff has been using an Access database system to track all reported illicit discharge calls. This database gives the flexibility to run multiple reports, generate inspection forms, schedule follow-up inspections, track repeat offenders, etc., which has greatly improved the tracking of all reported illicit discharge calls.

CI.2.4 Refer potential State Industrial General Permit non-filers to the Regional Water Board

PERMIT REFERENCE D.9.a.iii-viii	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, there were no Industrial General Permit non-filers that needed to be reported to the Regional Water Board by City Stormwater staff. Also, please refer to Section 2.7 of the Partnership's 2015/2016 Joint Annual Report for any referrals reported to the Regional Water Board as part of the Partnership's Regional Commercial/Industrial activities.

CI.2.5 Investigate Regional Water Board referrals within 3 working days of receipt of referral

PERMIT REFERENCE D.9.a.iii-viii	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, Stormwater Program staff responded to two (2) referrals from the Regional Water Board for potential illicit discharges to the City's drainage system.

All referrals from the Regional Water Board were investigated within 24 hours of being reported to Stormwater Program staff. The results of the investigation were communicated back to the Regional Water Board staff that provided the referral.

CI.3 Training and Outreach

CI.3.1 Provide guidance and educational materials to targeted industries/businesses that have committed violations

PERMIT REFERENCE D.9.b.iii	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

Stormwater Program staff continues to provide informal training, educational brochures, and, in some cases, provided guidance on BMP implementation to owners, operators, and/or tenants of industries and businesses that violated the Stormwater Ordinance. Stormwater Program staff also continues to provide educational brochures and proper BMP implementation assistance when investigating possible discharges where there was a potential risk to water quality. In situations where possible discharges are not confirmed, Stormwater Program staff still provides educational brochures to the business owners and/or operators.

Element Effectiveness Assessment

On April 17, 2015, the Regional Water Board renewed the Partnership's 2008 Permit for a limited term (Limited Term Permit) to allow the option to participate in a Regional Monitoring Program (e.g., the Delta RMP). Under the Limited Term Permit, only Outcome Level 1 effectiveness assessment is required. The overall effectiveness of the SQIP and the individual Elements in reducing stormwater pollution to the maximum extent practicable, achieving compliance with water quality standards in receiving waters, and

meeting performance standards was provided in the Long Term Effectiveness Assessment (LTEA) submitted to the Regional Water Board on March 15, 2013.

The previous section described activities conducted during the fiscal year demonstrating assessment at Effectiveness Level 1 (documenting activities).

Assessment Summary and Proposed Element Changes

Work Plan Task Completion Summary

All tasks were completed per the Annual 2015/2016 Work Plan.

Work Plan and/or SQIP Revisions and Changes

The Report of Waste Discharge and LTEA submitted to the Regional Water Board on March 15, 2013 included SQIP amendments in the form of proposed 5-year Work Plans for each Program and Element for the next permit term. These proposed SQIP amendments were not incorporated in the Limited Term Stormwater Permit due to the limited term of the order.

The City plans to obtain coverage under the new Region-wide MS4 Permit (Order No. R5-2016-0040, NPDES No. CAS0085324) during the 2016/2017 fiscal year. The SQIP will be updated in accordance with this Permit and the associated schedule of deliverables. The 2016/2017 Work Plan will be revised to be consistent with the Region-wide MS4 Permit requirements (e.g., reporting and effectiveness evaluations). The updated 2016/2017 Work Plan will be submitted with the NOI submittal in November 2016.

4.5 Municipal Operations Element

Element Introduction

The Municipal Operations Element addresses the development, construction, operation and maintenance activities of city-owned and operated facilities and infrastructure for the City of Sacramento (City). Such activities occur at either a specific location (facility activities) or across a broader and non-specific area throughout the City (field activities). Various departments throughout the City provide significant resources and support services to implement the Stormwater Quality Improvement Plan (SQIP). These departments include Utilities, Parks and Recreation, Public Works, Fire, Community Development, and Convention, Culture and Leisure Departments.

The goal of the Municipal Operations Element is to mitigate potential pollutants generated by municipal facilities and their activities to the maximum extent practicable (MEP), to continue pollutant reduction efforts performed by the Sacramento City Department of Utilities (DOU) staff, and to set an example of model pollution prevention for the public.

This goal is accomplished through the following strategies: spill response (see SQIP for further detail), requirements for municipal Capital Improvement Program (CIP) projects, pollution prevention at City facilities, landscape and pest management, storm drain system maintenance, street cleaning and maintenance, curbside green waste collection, parking facility maintenance, detention basin maintenance, emergency procedures, non-emergency firefighting flows and staff training.

Element Activities

As required by the Permit, SQIP and Annual Work Plan, the following activities were performed under this element.

MO.1 Spill Response

See Illicit Discharge Element 2015-2016 Work Plan

MO.2 New Development and Construction Requirements for Municipal Capital Improvements Projects

MO.2.1 Continue to implement Development Standards and construction requirements as they apply to Municipal Capital Improvement Projects

PERMIT REFERENCE	PERFORMANCE STANDARD
D.10.a.ii., D.10.b.i., D.14.b., 8	N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

Refer to sections CO.2.6, CO.2.8, and ND.3.6 of this Annual Report for more information on this activity.

MO.3 Pollution Prevention at City Facilities

MO.3.1 Maintain database to track site-specific BMPs, inspections and effectiveness ranking system

PERMIT REFERENCE D.10.a.iii., D.10.b.ii.	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

All annual inspections performed during the 2015/2016 fiscal year were entered into the inspection database. See Task MO.3.2 for information on the inspections.

MO.3.2 Conduct inspections at established frequencies and audit facilities for conformance with site-specific pollution prevention plans

PERMIT REFERENCE D.10.a.iii., D.10.b.ii.	PERFORMANCE STANDARD Show an increase in the effectiveness ranking for all sites by the end of the permit term
<input checked="" type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

All facilities inspected by Stormwater Program Staff are targeted to be inspected twice per year, once prior to the rain season and once during the rainy season. **Table 4.5-1** below summarizes the facility inspections conducted during the 2015/2016 fiscal year.

Table 4.5-1: Summary of Facility Inspection Frequencies

Targeted Facilities	Status of Inspection
28 th Street Landfill (closed landfill)	Landfill staff conducts inspections per the requirements of the facility's General Industrial permit.
Combined Wastewater Treatment Plant	Two inspections conducted (10/07/2015 and 04/08/2016)
North Area Corporation Yard	Two inspections conducted (09/28/2015 and 03/02/2016)
24th Street Corporation Yard	Two inspections conducted (09/28/2015 and 03/04/2016)
Meadowview City Service Complex	Two inspections conducted (09/30/2015 and 03/08/2016)
Kinney Police Garage	Two inspections conducted (10/09/2015 and 03/02/2016)
Rooney Police Garage	Two inspections conducted (10/05/2015 and 03/01/2016)
E.A. Fairbairn Water Treatment Plant	Two municipal facility inspections conducted in addition to routine construction inspections (10/02/2015 and 03/09/2016). The facility was under construction throughout FY15/16. During wet weather weekly construction inspections were performed. During dry weather inspections were performed twice per month.
Sacramento River Water Treatment Plant	Two municipal facility inspections conducted in addition to routine construction inspections (10/15/2015 and 02/25/2016). The facility was under construction throughout FY15/16. During wet weather weekly construction inspections were performed. During dry weather inspections were performed twice per month.

For each site inspected, an inspection record form was generated from the database and was utilized for the inspection. Inspections were conducted with the applicable facility representatives/managers and other

applicable City staff that assist in overseeing BMP implementation and training. Identified problems were discussed with the facility manager(s).

MO.4 Landscape and Pest Management

MO.4.1 Continue implementing integrated pest management (IPM) procedures for the City's landscape management area of responsibilities

PERMIT REFERENCE	PERFORMANCE STANDARD
D.10.a.iv., D.10.b.iii., D.27.a.i.	N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

Stormwater Program staff met with DOU Operations and Maintenance Division drainage staff to review the Aquatic Pesticide Application Plan (APAP) and sampling and reporting completed for coverage under the General NPDES Permit for Residual Aquatic Pesticide Discharge to Waters of the United States from Algae and Aquatic Weed Control (Permit No. CAG990005, WDID #5A34AP00011). The APAP implements IPM strategies such as site scouting of aquatic weed locations and densities, confirming weed establishment thresholds, pest prevention, and evaluation of mechanical, biological, cultural and chemical control techniques. The APAP includes BMPs to be implemented before, during and after algae or aquatic weed chemical control measures are used.

The APAP is a comprehensive plan designed to reduce water quality impacts and includes monitoring activities to be conducted to ensure that any residual aquatic herbicides discharged does not cause an exceedance of the receiving water limitations. Sampling and analysis of water quality parameters during the 2015 reporting year (January 1 – December 31, 2015) and 2016 reporting year to date (January 1 – August 1, 2016) indicate no adverse impacts to application areas or exceedances of applicable receiving water limitations in compliance samples.

The quantity of algaecide and aquatic herbicide required for an application is determined by a Pest Control Advisor (PCA) and the regulatory support consultant that have followed label directions in making a recommendation. The rate at which an algaecide and aquatic herbicide is used is highly variable and depends on the type, time of year, location, density, type of aquatic weeds, water presence and goal of the application. All these factors are considered by the PCA and the regulatory consultant prior to making a recommendation for an application.

Consultant services were obtained during the 2013/2014 fiscal year for a condition assessment of sediment accumulation and nuisance algae issues within the City's water quality detention basins. Accumulated sediment and maintenance practices were assessed to determine if the quantity and quality of sediment is contributing to nuisance algae conditions. Sediment removal, basin design, maintenance practices and the installation of aeration equipment were evaluated and recommendations were made to DOU staff regarding maintenance activity and basin prioritization. At the beginning of the 2015/2016 fiscal year, the scope of work was revised to include additional condition assessments of water quality basins and channels not identified in the original contract, however, the funding earmarked for the contract had been exhausted and the contract timeline was close to the expiration date. Stormwater program staff decided to issue a new Request for Proposals to finalize the additional scope of services. In September 2016, the City Council approved a new consultant services contract. Work to be finalized under the new contract is currently in the planned phase. All recommendations from the condition assessment will be further evaluated by DOU staff once sampling results have been completed.

MO.5 Storm Drain System Maintenance

MO.5.1 Continue implementing the inspection and cleaning schedule for drainage collection system

PERMIT REFERENCE D.10.a.v., D.10.b.iv.	PERFORMANCE STANDARD Quantify total amount of waste removed within the entire drainage collection system, and estimate pounds of target pollutants removed
<input checked="" type="checkbox"/> KEY INDICATOR	
4 ASSESSMENT LEVEL	

Summary of Work Completed

The inspection program for the storm drainage collection system involves crews inspecting the system for structural integrity, for flood prevention/control (which includes accumulation of debris), and for signs of illicit discharges and/or illegal connections. All underground storm drain mains, drain inlets and leads, and manholes are on a 6, 12, 24, or 60-month cleaning schedule (with the 60-month interval primarily relating to levee outfalls) depending on the priority of the drainage facility. Rodding is conducted on an as-needed basis, and only when absolutely necessary.

Priority is based on accumulation of waste, customer complaints, and flood control/prevention issues. All drainage Sump Stations were visually inspected on a weekly basis for evidence of contamination and preventative maintenance needs. Key factors for cleaning frequencies of Sumps Stations include the amount of rainfall, the accumulation of debris, and the land use within the drainage shed.

Table 4.5-2 below identifies the various components of the storm drainage collection system, and the associated inspections and cleaning that occurred during the 2015/2016 fiscal year. During the 2015/2016 fiscal year, a total of 518,166 cubic yards of material was removed during cleaning operations of the storm drain system. A detailed breakdown of the materials removed is provided in the **Table 4.5-4** of the Element Effectiveness Section of this chapter. In comparing the inspection and cleaning activities to previous years, there were decreases in the miles of storm drain mains, drain inlets and manholes inspected and cleaned. However, open drainage channel, screens, and sump stations cleaning activities showed a three-fold increase in waste removed as compared to last year's Annual Report for the exact same number of sumps, screens and miles of open drainage channel. During the course of the reporting fiscal year, there have been key personnel changes to the information technology (IT) staff that manage the City's computerized maintenance management system. In the next fiscal year, Stormwater Quality Program staff will meet and collaborate with O&M personnel and newly hired IT staff to refine the data inputs to make the data easier to categorize and analyze.

Table 4.5-2: Summary of Inspection Cleaning Activities Conducted in the Storm Drain System

Type of facility	Units	Approx. Total No.	No. Inspected	No. Cleaned
storm drain main lines	miles	1,020	17.3	3.8
Drainage inlets and associated leads	each	40,000	688	573
Manholes	each	25,000	1,470	295
Open drainage channels	miles	64.4	64.4	64.4
Screens	each	52	52	52
Sump Stations	each	104	104	34

MO.5.2 Maintain “No Dumping” message on MS4 drain inlets

PERMIT REFERENCE D.10.a.vi	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, Stormwater Program student interns replaced 248 missing or damaged drain inlet markers in Basins 10 and 99. Student interns also completed the replacement of damaged or missing markers in Basin 101 by August 2016.

Going forward, Stormwater Program staff has outlined a strategy to continue drainage basin inspections to collect information on missing or damaged markers for the 2016/2017 fiscal year. Currently, the City has an existing inventory of more than 8,000 markers. Many of these markers have customized printing that calls out the name of a particular creek or waterway. The general concept was to identify the final destination point where a particular drainage inlet eventually discharges, connecting the community with their local waterway. The supply on-hand will prioritize the basins that will be scouted for missing or damaged markers. Additionally, scouting will also be conducted in areas with the highest number of pedestrian activity such as parks, schools and residential neighborhoods.

MO.6 Street Cleaning and Maintenance

MO.6.1 Continue to implement street sweeping program

PERMIT REFERENCE D.10.a.vii., D.10.b.v.	PERFORMANCE STANDARD Quantify total amount of waste removed from street sweeping efforts, and estimate pounds of target pollutants removed
<input checked="" type="checkbox"/> KEY INDICATOR	
4 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, the City’s Recycling and Solid Waste Division continued to implement street sweeping cycles on a monthly basis for 200 curb miles (in the metro area) , with the remainder conducted every six weeks, excluding leaf season.

Using the mapping data, GIS software was used to extract current curb miles swept within the public right-of-way. The City’s Recycling and Solid Waste Division ran a fresh analysis of the curb miles swept for the 2015/2016 fiscal year. The analysis showed the number of curb miles remained roughly the same as the last fiscal year.

A summary of the street sweeping activities is provided in **Table 4.5-3** below. During the 2015/2016 fiscal year, 1,503 tons of waste was collected and disposed of during street sweeping operations. The amount of waste collected through street sweeping activities has increased by 20% from the previous year. This increase could be attributed to a full year of street sweeping data measured for the new street sweeping cycles.

Table 4.5-3: Street Sweeping Summary

Date Range	Frequency	Units	Approx. Total Length	Length Swept Per Street Sweeping Cycle
July 1, 2015 – Feb. 1, 2016	Every Month	curb miles	2,500	2,550
February 1, 2015 – June 30, 2015	Every Month –metro area Every Six Weeks – All Other Areas	curb miles	200 2,400	200 2,360

MO.6.2 Continue to implement BMPs for activities involving street sweeper rinse water, saw cutting activities, street maintenance materials and waste, and concrete waste

PERMIT REFERENCE D.10.b.v.	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, the City continued to implement BMPs for activities involving street sweeper rinse water, saw cutting activities, street maintenance materials and waste, and concrete waste as described in the SQIP.

MO.7 Curbside Green Waste Collection

No task required. Mandatory Containerized Green Waste was fully implemented as of July 1, 2013.

MO.8 Parking Facilities Maintenance

MO.8.1 Continue to maintain City-owned parking facilities to minimize the build-up and discharge of pollutants to the storm drain system

PERMIT REFERENCE D.10.a.viii., D.10.b.vi.	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, City-owned parking facilities continued to be properly maintained with scheduled maintenance. Maintenance practices include any of the following as appropriate: sweeping, trash pickup, leaf blowing, and power washing in parking garages.

MO.9 Detention Basin Maintenance

MO.9.1 Complete condition assessment and implement field maintenance manual BMPs for water quality detention basis

PERMIT REFERENCE D.10.a.v., D.10.b.vii.	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2013/2014 fiscal year, Stormwater Program staff hired a consultant to prepare operations and maintenance manuals for the City's water-quality detention basins. The operations and maintenance manuals, drafts of the Field Assessment Workbook and Field Maintenance Practices Manuals (Field Manuals), have been prepared. The current consultant contract was completed so stormwater staff issued a new Request for Qualifications to complete the Field Manuals and conduct additional water and sediment sampling was issued during the 2015/2016 fiscal year. The new consultant contract will be for a total of three years (2016/2017, 2017/2018 and 2018/2019). The completion of the condition assessment, Field Manuals and additional water and sediment sampling will continue in the 2016/2017 fiscal year.

MO.9.2 Provide support in the development of specific Lake Management Plans (LMPs) for new water-quality detention basins that will be managed by Home Owner Associations (HOAs)

PERMIT REFERENCE D.10.a.v., D.10.b.vii.	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

No new detention basins requiring LMPs that would be managed by HOAs were constructed during the 2015/2016 fiscal year.

MO.9.3 Evaluate LMPs with HOA representatives to determine revisions

PERMIT REFERENCE D.10.a.v., D.10.b.vii.	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, Stormwater Program Staff reviewed monitoring data received from the HOA-maintained lakes, and communicated with the lake managers regarding complaints and issues from the lake community throughout the year. Westshore Lake has recently been having difficulty with algae blooms and Stormwater Program Staff has met with the developer, the HOA and the current lake maintenance contractor to help identify the issues leading to the blooms and to help improve the conditions of Westshore lake. The Stormwater Program staff is currently in the process of hiring an environmental consultant to evaluate the current HOA lake management procedures and propose revisions to identify effective lake monitoring procedures and eliminate any unproductive tasks. Stormwater Program staff will recommend that the other two HOA maintained lake systems update their management plans to include any lake management procedures that are applicable to their lake systems.

MO.10 Emergency Procedures

MO.10.1 Implement Sacramento Regional Fire/EMS Communications Center dispatch procedures to minimize environmental damage in emergency situations

PERMIT REFERENCE D.10.a.ix.	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, the Sacramento Regional Fire/EMS Communications Center continued to dispatch appropriate personnel and equipment during emergency situations. Protocols are in place for Dispatch to notify the City's drinking water treatment plants during 3rd alarm (or greater) fires or during hazardous materials discharges that threaten to enter the drainage collection system or the Waters of the State. In those cases, the City's water treatment plants would then coordinate with DOU Operations and Maintenance drainage crews for appropriate response. No changes to the communications protocols were necessary during this reporting period.

MO.11 Non-emergency Fire Fighting Flows

No tasks scheduled for the 2015/2016 fiscal year.

MO.12 Training

MO.12.1 Provide regular training to targeted staff on relevant components of the SQIP

PERMIT REFERENCE D.10.a.x.	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, regular training of staff was conducted for various Divisions/Sections within the following departments: Parks and Recreation, Public Works (now includes General Services), and Utilities. Topics covered environmental awareness tailored for the individual groups, and most groups received training on how to identify common urban pollutants, pollutants associated with various municipal facilities and activities, and how to report illegal discharges. See **Appendix 4J** for the specific groups trained during 2015/2016 fiscal year, the number of staff trained, and copies of the training presentations.

Element Effectiveness Assessment

On April 17, 2015, the Regional Water Board renewed the Partnership's 2008 Permit for a limited term (Limited Term Permit) to allow the option to participate in a Regional Monitoring Program (e.g., the Delta RMP). Under the Limited Term Permit, only Outcome Level 1 effectiveness assessment is required. The overall effectiveness of the SQIP and the individual Elements in reducing stormwater pollution to the maximum extent practicable, achieving compliance with water quality standards in receiving waters, and meeting performance standards was provided in the Long Term Effectiveness Assessment (LTEA) submitted to the Regional Water Board on March 15, 2013.

The following Effectiveness level 2 and above activities are tracked and reported to be used for future assessment of this program element.

The following activities are assessed in this section:

Task Number	Activity/Task	Performance Standard / Target	FY 15/16 Assessment Outcome*
MO.5.1	Continue implementing the inspection and cleaning schedule for drainage collection system	Quantify total amount of waste removed within the entire drainage collection system, and estimate pounds of target pollutants removed	4
MO.6.1	Continue to implement street sweeping program	Quantify total amount of waste removed from street sweeping efforts, and estimate pounds of target pollutants removed	4

*Assessment outcome levels may vary throughout the permit term. See the SQIP for information on the progression of key indicator outcome levels.

Municipal Operations Element Assessment Outcomes

MO.5.1 Continue implementing the inspection and cleaning schedule for drainage collection system

The total amount of waste removed from the entire drainage collection system during the 2015/2016 fiscal year is quantified in **Table 4.5-4** below. The waste removed includes sediment, vegetation and trash. Such waste removal qualifies as an Outcome Level of Level 4 – Reducing Loads. This task meets its performance standard for the 2015/2016 fiscal year. See Task MO.5.1 in Appendix A-4.3 in the LTEA submitted to the Regional Water Board in March 2013 for more information on the assessment related to the cleaning of the drainage collection system.

Table 4.5-4: Quantity of Waste Removed from the Storm Drainage System

Type of facility	Qty Waste Removed (cy)
Underground storm drain main lines	1,576
Drainage inlets and associated leads	
Manholes	
Open drainage channels	16,100
Screens	
Sump Stations	490
Totals:	18,166

MO.6.1 Continue to implement street sweeping program

During the 2015/2016 fiscal year, 1,503 tons of waste was collected and disposed of during street sweeping operations. Such waste removal qualifies as an Outcome Level of Level 4 – Reducing Loads. This task meets the performance standard for the 2015/2016 fiscal year. See Task MO.6.1 in Appendix A-4.3 in the LTEA submitted to the Regional Water Board in March 2013 for more information on the assessment related to the street sweeping program.

Assessment Summary and Proposed Element Changes

Work Plan Task Completion Summary

All tasks were completed per the Annual Work Plan except Task MO.9.1. The draft field manual was prepared; however, finalization of the manual and full implementation of the field practices were delayed due to continued changes in Stormwater Program staff. This effort will be completed in the 2016/2017 fiscal year.

Work Plan and/or SQIP Revisions and Changes

The Report of Waste Discharge and LTEA submitted to the Regional Water Board on March 15, 2013 included SQIP amendments in the form of proposed 5-year Work Plans for each Program and Element for the next permit term. These proposed SQIP amendments were not incorporated in the Limited Term Stormwater Permit due to the limited term of the order.

The City plans to obtain coverage under the new Region-wide MS4 Permit (Order No. R5-2016-0040, NPDES No. CAS0085324) during the 2016/2017 fiscal year. The SQIP will be updated in accordance with this Permit and the associated schedule of deliverables. The 2016/2017 Work Plan will be revised to be consistent with the Region-wide MS4 Permit requirements (e.g., reporting and effectiveness evaluations). The updated 2016/2017 Work Plan will be submitted with the NOI submittal in November 2016.

4.6 Illicit Discharge Element

Element Introduction

The Illicit Discharge Element activities are conducted in coordination with the City’s 311 call center (“311”), the Department of Utilities (DOU) Operations and Maintenance Division First Responders, Department of Public Works (Public Works) Streets Maintenance Division staff, and Department of Community Development Code Enforcement Division staff to abate illicit spills and connections to the storm drainage system. Additionally, DOU Engineering and Water Resources Division, Environmental and Regulatory Compliance Section, Stormwater Program staff also coordinates with the Sacramento County Environmental Management Department (EMD) staff, as well as respond directly to calls from the public via the Stormwater hotline at (916) 808-4H2O.

“311” operators receive calls throughout the year that are potentially related to the drainage system. Those calls are dispatched to the most likely respondent among any of the City staff listed above, based on the information received by the operator. Any one of the above-mentioned staff may engage in the abatement of potential spills and materials before they enter any aspect of the drainage system (e.g., street gutter or drain inlet) and become an illicit discharge. If an actual discharge to the drainage system is observed, DOU Operations and Maintenance Division First Responders are immediately contacted to determine the extent of the discharge and to begin abatement.

In addition to responding to those “311” dispatches, the staff listed above may also encounter spills and other illicit discharges during routine activities. Once initial containment, abatement, and disposal of potential hazardous and non-hazardous discharges are addressed; the responding entity contacts Stormwater Program staff to conduct additional education and/or enforcement if a responsible party is identified at that time or is identified through the resulting investigation.

The goal of the Illicit Discharge Element is to abate, contain and/or clean up reported illicit discharges and connections to the storm drainage system from non-commercial sources. Illicit discharges can result from the dumping of liquid or of solid wastes into the storm drainage system, or from allowing pollutants to come into contact with urban runoff and then be discharged into the storm drainage system.

This goal is accomplished through the following strategies: legal authority, reporting of illicit connections and discharges response and enforcement, public outreach and reporting, and training. The Illicit Discharge Element also continues to work closely with the Commercial/Industrial Element, as much cross-over exists between the two Elements.

Element Activities

As required by the Permit, SQIP and Annual Work Plan, the following activities were performed under this element.

ID.1 Legal Authority

No tasks required for the 2015/2016 fiscal year.

ID.2 Reporting of Illicit Connections and Discharges Response and Enforcement

ID.2.1 Investigate reports of illicit connections and eliminate identified connections

PERMIT REFERENCE	PERFORMANCE STANDARD
D.11.a.ii-iv, 11.b.ii-iv	N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year there were no reported or identified illicit connections.

ID.2.2 Continue providing illicit discharge response and clean-up

PERMIT REFERENCE D.11.a.ii-iv, 11.b.ii-iv	PERFORMANCE STANDARD Prevent discharges to receiving bodies to the MEP and quantify types of material prevented from entering receiving waters
<input checked="" type="checkbox"/> KEY INDICATOR	
4 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, Stormwater Program staff and/or DOU Operations and Maintenance Division staff responded to 21 potential illicit discharge calls for possible stormwater violations; 18 of those were investigated by Stormwater Program staff for the purpose of assisting Operations and Maintenance Division staff and/or issuing enforcement actions, the remaining three (3) calls were handled by DOU Operations and Maintenance Division staff and no assistance or additional enforcement action by Stormwater Program staff was necessary. Of the 21 total potential illicit discharge calls, 19 resulted in abatement of an actual or potential illicit discharge, one (1) discharge went to the City’s combined sewer system, one (1) was for an unfounded discharge call. Of the 21 responses 17 resulted in actual violations of the City’s Stormwater Management and Discharge Control Ordinance (actual violations are those that resulted in a discharge of pollutant(s) to the City’s drainage system, public right-of-way, and/or waterway). Please refer to **Table ID.4.6-1** below for a list of pollutants prevented from entering the drainage system or Waters of the State. See Task ID.2.5 on the next page for a list of enforcement actions conducted as a result of the response to these potential illicit discharge calls.

Table ID.4.6-1 - Pollutants Prevented from Entering Receiving Waters

Pollutant	Number of illicit discharge calls involving this pollutant
Paint	1
Diesel/ Gasoline	3
Cooking Oil/Grease	1
Pesticides	0
Sewage/Wastewater**	2
Automotive fluids	3
Sediment/Trash	6
Concrete/cement	2
Others*	1

*Others include discharges associated with soapy water, washing pool filters, and dirty water from pressure washing discharges.

**Applicable SSOs are reported to the State California Integrated Water Quality System project (CIWQS) per the Statewide General Waste Discharge Requirements (Order No. 2006-0003) for all publicly owned sanitary sewer collection systems.

ID.2.3 Investigate reports of illicit discharges (non-hazardous)

PERMIT REFERENCE D.11.a.ii-iv, 11.b.ii-iv	PERFORMANCE STANDARD Initiate investigation within five (5) day of initial report
<input checked="" type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

A total of 14 non-hazardous illicit discharge calls were investigated by Stormwater Program staff and/or DOU Operations and Maintenance Division. All reported calls were investigated within five (5) business days after receiving the initial call. See Task ID.2.2 and ID.2.5 for information on the response, cleanup and enforcement of these calls.

ID.2.4 Investigate reports of illicit discharges (hazardous)

PERMIT REFERENCE D.11.a.ii-iv, 11.b.ii-iv	PERFORMANCE STANDARD Initiate investigation within one (1) day of initial report
<input checked="" type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

A total of seven (7) hazardous illicit discharged calls were investigated by Stormwater Program staff and/or DOU Operations and Maintenance Division staff. All reported calls were investigated within one (1) business day after receiving the initial call. See Task ID.2.2 and ID.2.5 for information on the response, cleanup and enforcement of these calls.

ID.2.5 Issue enforcement actions

PERMIT REFERENCE D.11.a.ii-iv, 11.b.ii-iv	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

Upon investigation of the 21 reported illicit discharge calls for the 2015/2016 fiscal year, 19 resulted in an enforcement action. See **Table ID.4.6-2** for a list of enforcement actions given. Those enforcement actions were based on the severity and/or type of discharge, the level of cooperation from the responsible party in mitigating the discharge, and/or if the discharge reached the drainage system or a water of the State. In most of the instances, when a responsible party was identified, educational brochures and/or general education of water quality was provided to the responsible party(ies).

Out of the 20 illicit discharge calls that resulted in abatement of an actual or potential illicit discharge, one (1) of the calls did not result in an enforcement action due to the fact that a responsible party was not identified and/or potential discharger was properly educated on the impacts to water quality and the activity did not warrant an actual enforcement action.

Table ID.4.6-2 - Summary of 2014/2015 fiscal year enforcement actions

Type of Enforcement Action	Number of Actions Taken
Verbal Warning	8
Written Warning (door hanger, on site letter)	2
Notice to Comply or Immediate Clean-up (2-, 4-, or 8-hour)	7
Office Letter	1
Notice of Violation	1
Notice of Violation issued by County	0
Administrative Penalties	0
Total	19

ID.2.6 Maintain database of illicit discharge inspections and enforcement actions

PERMIT REFERENCE D.11.a.ii-iv, 11.b.ii-iv	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

Stormwater Program staff has been using an Access database system to track all reported illicit discharge calls. This database gives the flexibility to run multiple reports, generate inspection forms, schedule follow-up inspections, track repeat offenders, etc., which has greatly improved the tracking of all reported illicit discharge calls.

ID.2.7 Maintain map of illicit discharges to identify areas for targeted outreach

PERMIT REFERENCE D.11.a.ii-iv, 11.b.ii-iv	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

See **Appendix 4I** for a map of the reported illicit discharges for the 2015/2016 fiscal year showing all 21 possible discharges reported to Stormwater Program staff and/or DOU Operations and Maintenance Division staff. Analysis of the possible discharges, by either discharge type or by geographical location, did not indicate any areas for targeted outreach.

ID.3 Public Outreach and Reporting

ID.3.1 Maintain public hotline (916) 808-4H2O for public reporting of illicit discharges

PERMIT REFERENCE D.11.b.v	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, the (916) 808-4H2O Stormwater hotline received calls related to possible illicit discharges and requests for stormwater quality information from the public. Illicit Discharge calls were forwarded to the City's 311 Call Center for immediate response, investigation and abatement. See section ID.2 for more information on the investigations, responses and enforcement actions relating to these and other possible illicit discharge calls.

ID.3.2 Promote used oil curbside pickup program and use of Household Hazardous Waste (HHW) Collection Centers and Certified Collection Centers

PERMIT REFERENCE D.11.b.v	PERFORMANCE STANDARD Quantify amount of oil collected and amounts of other HHW disposed of at HHW Collection Centers
<input checked="" type="checkbox"/> KEY INDICATOR	
4 ASSESSMENT LEVEL	

Summary of Work Completed

The City maintains a curbside used oil and oil filter pickup program, and contracts operations at a permanent HHW Collection Facility located at 8491 Fruitridge Road. The City's Public Works Department, Solid Waste Division reports on oil and HHW collected within the City. The City also receives information from the California Department of Resources Recycling and Recovery (CalRecycle) on the amount of used oil collected at Certified Collection Centers in the City.

Table ID.4.6-3: Used Oil and HHW collected within the City (2015 calendar year data)

Material	Method	Unit	Quantity
Used Motor Oil	Curbside pickup by appointment	gallons	4,740
Used Motor Oil	Permanent Household Hazardous Waste Collection Facility	gallons	8,075
Used Motor Oil	Certified Collection Centers (Auto Zone, O'Reilly Auto Parts, etc.)	gallons	45,993
Used Motor Oil Filters	Curbside pickup by appointment	units	1,024
Used Motor Oil Filters	Permanent Household Hazardous Waste Collection Facility	units	2,086
Used Motor Oil Filters	Certified Collection Centers (Auto Zone, O'Reilly Auto Parts, etc.)	units	12,665
Fluorescent Lights	Permanent Household Hazardous Waste Collection Facility	lbs.	12,699
Fluorescent Lights	Curbside pickup by appointment or delivered to a City facility	lbs.	756.25
Household Batteries	Permanent Household Hazardous Waste Collection Facility	lbs.	37,951
Household Batteries	Curbside pickup by appointment or delivered to a City facility	lbs.	1,539
CRT/E-waste	Permanent Household Hazardous Waste Collection Facility	tons	144,706
Waste Exchange Program for HHW	HHW items that were recycled through an exchange program	lbs.	136,577

ID.4 Training

ID.4.1 Train City staff annually in proper methods for receiving and responding to illicit discharge reports to ensure minimum response time and maximum response effectiveness

PERMIT REFERENCE D.11.b.vi	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, DOU Operations and Maintenance Division First Responders were provided with field training every time stormwater staff responded to an illicit discharge call. Field training emphasis was on identifying the type of discharge, proper methods to contain discharge, proper documentation and reporting procedures for all reported calls, and how to conduct a simple pH test to identify the presence of non-visible pollutants.

Stormwater Program staff did not provide any training to “311” management due to the fact that no changes were necessary to their current response process.

Element Effectiveness Assessment

On April 17, 2015, the Regional Water Board renewed the Partnership’s 2008 Permit for a limited term (Limited Term Permit) to allow the option to participate in a Regional Monitoring Program (e.g., the Delta RMP). Under the Limited Term Permit, only Outcome Level 1 effectiveness assessment is required. The overall effectiveness of the SQIP and the individual Elements in reducing stormwater pollution to the maximum extent practicable, achieving compliance with water quality standards in receiving waters, and meeting performance standards was provided in the Long Term Effectiveness Assessment (LTEA) submitted to the Regional Water Board on March 15, 2013.

The following Effectiveness level 2 and above activities are tracked and reported to be used for future assessment of this program element.

The following activities are assessed in this section:

Task Number	Activity/Task	Performance Standard / Target	FY 15/16 Assessment Outcome*
ID.2.2	Continue providing illicit discharge response and clean-up	Prevent discharges to receiving water bodies to the MEP and quantify types of material prevented from entering receiving waters	4
ID.2.3	Investigate reports of illicit discharges (non-hazardous)	Initiate investigation within five (5) days of initial report	1
ID.2.4	Investigate reports of illicit discharges (hazardous)	Initiate investigation within one (1) day of initial report	1
ID.3.2	Promote used oil curbside pickup program and use of Household Hazardous Waste (HHW) Collection Centers and Certified Collection Centers	Quantify amount of oil collected and amounts of other HHW disposed of at HHW Collection Centers	4

*Assessment outcome levels may vary throughout the permit term. See the SQIP for information on the progression of key indicator outcome levels.

Illicit Discharge Element Assessment Outcomes

ID.2.2 Continue providing illicit discharge response and clean-up

Of the 21 reported illicit discharge calls received by City staff (via “311center”, Public Hotline, Direct Reports to stormwater staff, Referrals by county and/or other agencies) 20 resulted in abatement of an actual or potential illicit discharge. Although, Stormwater Program staff was not able to accurately quantify the amounts of material at risk of being discharged to a waterway, response by staff was successful in preventing or minimizing discharges from entering a receiving water body. This discharge prevention qualifies as an Outcome Level of Level 4 – Reducing Loads. This task meets its performance standard for the 2015/2016 fiscal year.

ID.2.3 Investigate reports of illicit discharges (non-hazardous)

During the 2015/2016 fiscal year, 14 out of 14 reported calls (100%) were investigated within five (5) business days of receiving notification of a possible discharge. Thus, this task meets its performance standard for the 2015/2016 fiscal year.

ID.2.4 Investigate reports of illicit discharges (hazardous)

During the 2015/2016 fiscal year, seven (7) out of seven (7) reported calls (100%) were investigated within one (1) day of receiving notification of a possible discharge. Thus, this task meets its performance standard for the 2015/2016 fiscal year.

Staff investigated 100 percent (21 out of 21) of all reported calls (hazardous and non-hazardous) within 24 hours of being reported, regardless of the type of discharge.

ID.3.2 Promote used oil curbside pickup program and use of Household Hazardous Waste (HHW) Collection Centers and Certified Collection Centers

As illustrated in **Table ID.4.6-3** above, the collection of used oil and other HHW items continues to remove significant amounts of pollutants from potentially entering the drainage system and polluting Waters of the State.

In addition, through a Household Hazardous Waste exchange program, City residents diverted approximately 136,577 pounds of household chemicals from landfills or from being illegally dumped.

The results of these collection programs qualify as an Outcome Level of Level 4 – Reducing Loads. This task meets its performance standard for the 2015/2016 fiscal year.

Assessment Summary and Proposed Element Changes

Work Plan Task Completion Summary

All tasks were completed per the Annual Work Plan.

Work Plan and/or SQIP Revisions and Changes

The Report of Waste Discharge and LTEA submitted to the Regional Water Board on March 15, 2013 included SQIP amendments in the form of proposed 5-year Work Plans for each Program and Element for the next permit term. These proposed SQIP amendments were not incorporated in the Limited Term Stormwater Permit due to the limited term of the order.

The City plans to obtain coverage under the new Region-wide MS4 Permit (Order No. R5-2016-0040, NPDES No. CAS0085324) during the 2016/2017 fiscal year. The SQIP will be updated in accordance with this Permit and the associated schedule of deliverables. The 2016/2017 Work Plan will be revised to be consistent with the Region-wide MS4 Permit requirements (e.g., reporting and effectiveness evaluations). The updated 2016/2017 Work Plan will be submitted with the NOI submittal in November 2016.

4.7 Public Outreach Element

Element Introduction

This section describes the City of Sacramento (City) Agency-specific Activities listed on the Regional Public Outreach Activities Work Plan as shown in Table 2.6.2 of the Stormwater Quality Improvement Plan dated November 2009 and adopted by the Regional Water Board on January 29, 2010 (SQIP).

The Public Outreach Element addresses those outreach activities not covered in the Section 2.6 – Regional Public Outreach of this Annual Report. As the Sacramento Stormwater Quality Partnership (Partnership) moves towards more regionally-based outreach activities, Section 2.6 should be referenced for the majority of public outreach activities and effectiveness assessments; however, because the City still conducts specific Public Outreach activities, those are detailed in this section.

The goal of the Public Outreach Element is to educate the public about the harmful effects of stormwater pollution and to motivate people to prevent stormwater pollution by changing their behavior. Additionally, the Public Outreach Element creates and promotes opportunities for public participation in creek and river stewardship projects. All of these activities aim to improve the quality of urban runoff and protect local creeks and rivers.

Activities of the Public Outreach Element are coordinated with activities related to other City of Sacramento Department of Utilities (DOU), Engineering and Water Resources Division, Environmental and Regulatory Compliance Section, Stormwater Program (Stormwater Program) Elements to ensure consistent and integrated messages. Additionally, the City maintains relationships with other groups and agencies to share ideas and experiences relating to stormwater outreach and education efforts, and jointly implement outreach where mutually beneficial opportunities exist. In general, collaborative efforts can be more cost-effective; however, in some cases, localized public outreach is more appropriate or cost-effective. This section describes City-specific activities for those cases.

Element Activities

As required by the Permit, SQIP and Annual Work Plan, the following activities were performed under this element.

PO.1 Sacramento City Agency-specific Activities

PO.1.1 Sponsor/Encourage participation in area clean up events (e.g., Creek Week)

PERMIT REFERENCE	PERFORMANCE STANDARD
D.12.a.i, D.12.b.i	N/A
<input type="checkbox"/> KEY INDICATOR	
<input checked="" type="checkbox"/> ASSESSMENT LEVEL	

Summary of Work Completed

The City continued to financially support area clean-ups through our Community Action Grant Program. See Task PO.1.2 below. Please see Section 2.6 - Regional Public Outreach, for additional information.

Additionally, the City encouraged public participation in neighborhood creek cleanup events on the City's Facebook page.

PO.1.2 Implement Community Action Grant (CAG) Program

PERMIT REFERENCE D.12.a.iii, D.12.b.iii	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

Four Community Action Grants were awarded in the 2015/2016 fiscal year. The awarded grants supported activities that were carried out in the Spring/Summer of 2016. The grant supported the North Sacramento Urban Creeks Council with promoting water pollution prevention and creek wildlife education, carrying out lower American River Parkway clean-ups, watering sessions for native plants along Sutter's Landing, and local wildlife restoration and natural park tours. The grant supported the 4-H Youth Development Program's 4-H Water Wizards project, which taught students in afterschool program sites (Sacramento START sites) about water and the environment, water properties, source water protection and stormwater pollution prevention. The grant also supported the Water Guardians of South Sacramento, which focused on educating youth from John Still K-8 school on local watersheds and stormwater pollution prevention, and taking trips to Stone Lake National Wildlife Refuge. The grant also helped support Valley High School's Stormwater Education program, which included students carrying out clean-ups and taking water samples at Laguna Creek, involving students in a stormwater quality public service announcement (PSA) contest, and building a rain garden in the grove area of the school campus.

PO.1.3 Implement Splash in the Class - classroom presentation program

PERMIT REFERENCE D.12.a.iii, D.12.b.iii	PERFORMANCE STANDARD Increase awareness of stormwater issues among students
<input checked="" type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, the City funded 102 presentations to third through sixth grade classrooms. 30 classroom presentations were funded through the Partnership's project and an additional 72 classroom presentations were funded by the City (See Task PO.4.1 in the Regional Public Outreach Section for more information including an assessment of the program). A total of 3,021 students in schools with students solely from the City of Sacramento received these Splash-in-the-Class classroom presentations.

PO.1.4 Continue to support Splash

PERMIT REFERENCE D.12.a.iii, D.12.b.iii.	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

The City financially supported SPLASH in the 2015/2016 fiscal year. SPLASH is a science-based educational programs that provides a year-long curriculum for students to explore the diversity of life in our local creeks, vernal pools and lakes, both in the classroom and in the field. By studying the organisms that inhabit our local aquatic ecosystems, students gain awareness of water quality and watershed issues.

PO.1.5 Track state legislation and regulatory changes and impacts to stormwater permit

PERMIT REFERENCE	PERFORMANCE STANDARD
63bviii, 12.ai.,iii.,bi.,biii.	N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, City staff and Stormwater Program staff continued to follow and track regulatory changes and policies that would impact its Stormwater Permit as well as the permits of neighboring agencies. Some of the items tracked include:

- Bay Delta Conservation Plan/CA Water Fix
- Waters of the United States Proposed Rule
- California Biological Objectives/Biological Integrity Assessment Implementation Plans
- Delta and Statewide Nutrient Policy/Objectives
- Statewide Biostimulatory Substances Amendment
- Statewide Water Quality Control Plans for Trash (Trash Amendments)
- California Policy for Toxicity Assessment and Control
- Statewide Bacteria Standards
- Central Valley Pesticide TMDL and Basin Plan Amendment
- DPR's Pest Management Advisory Committee
- STORMS Pesticide Reduction Project
- Sacramento- San Joaquin Delta Methylmercury TMDL
- Delta Regional Monitoring Program Central Valley MS4 Region-wide Permit
- Strategy to Optimize Resource Management of Storm Water (STORMS)/Stormwater Strategic Initiative

PO.1.6 Implement trash and pet waste reduction programs

PERMIT REFERENCE	PERFORMANCE STANDARD
12.ai.,aiv.,bi.,biv.,c.	N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

The City continued to support Pups in the Parkway which provides pet waste stations along the American River Parkway including Discovery Park.

Staff did not identify any additional partnerships with community organizations to install and maintain stations during the last fiscal year. The City will continue to look for opportunities to provide education and potentially pet waste bags to residents.

The City did not implement any specific trash reduction programs in 2015/2016 fiscal year.

Element Effectiveness Assessment

On April 17, 2015, the Regional Water Board renewed the Partnership's 2008 Permit for a limited term (Limited Term Permit) to allow the option to participate in a Regional Monitoring Program (e.g., the Delta RMP). Under the Limited Term Permit, only Outcome Level 1 effectiveness assessment is required. The overall effectiveness of the SQIP and the individual Elements in reducing stormwater pollution to the maximum extent practicable, achieving compliance with water quality standards in receiving waters, and meeting performance standards was provided in the Long Term Effectiveness Assessment (LTEA) submitted to the Regional Water Board on March 15, 2013. The previous section described activities conducted during the fiscal year demonstrating assessment at Effectiveness Level 1 (documenting activities).

Assessment Summary and Proposed Element Changes

Work Plan Task Completion Summary

All tasks were completed per the Annual Work Plan.

Work Plan and/or SQIP Revisions and Changes

The Report of Waste Discharge and LTEA submitted to the Regional Water Board on March 15, 2013 included SQIP amendments in the form of proposed 5-year Work Plans for each Program and Element for the next permit term. These proposed SQIP amendments were not incorporated in the Limited Term Stormwater Permit due to the limited term of the order.

The City plans to obtain coverage under the new Region-wide MS4 Permit (Order No. R5-2016-0040, NPDES No. CAS0085324) during the 2016/2017 fiscal year. The SQIP will be updated in accordance with this Permit and the associated schedule of deliverables. The 2016/2017 Work Plan will be revised to be consistent with the Region-wide MS4 Permit requirements (e.g., reporting and effectiveness evaluations). The updated 2016/2017 Work Plan will be submitted with the NOI submittal in November 2016.

4.8 New Development Element

Element Introduction

The New Development Element addresses post-construction stormwater quantity and quality from new development and re-development projects within the City. The Department of Utilities (DOU) Engineering and Water Resources Division Development Review Section (Development Review) staff works with DOU Engineering and Water Resources Division Environmental and Regulatory Compliance Section staff (Stormwater Program staff) to review the Environmental Impact Reports (EIRs), entitlements and final plans of proposed projects within the City limits. Development Review staff, with support from Stormwater Program staff, ensures that all regulated new development and redevelopment projects comply with Development Standards, implement necessary source control measures and design treatment control measures in accordance with the *Stormwater Quality Design Manual for the Sacramento and South Placer Regions, May, 2007* (Design Manual). The 2011 Hydromodification Management Plan (HMP), the 2014 Low Impact Development (LID) standards, and the 2014 *Stormwater Quality Design Manual for the Sacramento Region* (documents available on the Partnership's website) will be updated, if necessary, and implemented as a part of the General Permit for Discharges from Municipal Separate Storm Sewer Systems (Order No. R5-2016-0040, NPDES No. CAS0085324) (Region-wide MS4 Permit).

The goal of the New Development Element is to protect local creeks and rivers by reducing the discharge of pollutants found in urban runoff resulting from new development to the Maximum Extent Practicable (MEP) and by mitigating increased flows that can cause erosion and degrade habitat. New development projects result in an increase in the total urbanized area, with a corresponding increase in the overall load of pollutants discharged into local creeks and rivers; and result in an increased impervious area, with a corresponding increase in the volume of stormwater runoff flows.

This goal is accomplished through the following strategies: reviewing legal authority to ensure consistency; updating policy and standards to include new requirements; implementing Development Standards; ensuring maintenance verification for treatment control measures; and training and outreach to City staff as well as to the development community.

Element Activities

As required by the Permit, SQIP and Annual Work Plan, the following activities were performed under this element.

ND.1 Legal Authority

ND.1.1 **Begin revisions to existing Stormwater Ordinance and other city codes to incorporate requirements from Hydromodification Management Plan (HMP) and Low Impact Development (LID) strategies**

PERMIT REFERENCE	PERFORMANCE STANDARD
D.5, D.14 , D.15	N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

Stormwater Program staff reviewed the current Stormwater Ordinance, as well as other city codes, and drafted proposed language to include requirements relating to the HMP and to the LID standards in those documents. Finalization of the proposed language and revision of the ordinances is pending approval of the HMP by the Regional Water Board. The HMP was submitted to the Regional Water Board on August 5, 2011 and has not been approved by the Regional Water Board to date. The HMP and LID standards will be evaluated, updated, if necessary and implemented when the Partnership obtains coverage under the new Region-wide MS4 Permit. See Task ND.2.3 for more information on the HMP.

ND.2 Policy and Standards

ND.2.1 Review and update the environmental review procedures (i.e., CEQA Checklist)

PERMIT REFERENCE	PERFORMANCE STANDARD
D.21	N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, there were no updates to the environmental review procedures. The environmental review procedures will be amended as needed upon finalization and implementation of the HMP and LID standards.

ND.2.2 Amend development standards to require implementation of LID strategies for development projects and HMP criteria

PERMIT REFERENCE	PERFORMANCE STANDARD
D.15 b., D15 c.	N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

The HMP was submitted to the Regional Water Board on August 5, 2011 and has not been approved by the Regional Water Board to date. The current Stormwater Permit requires that individual agency development standards add hydromodification management and LID requirements within six months of Regional Water Board's approval of the HMP and the new requirements become effective twelve months after HMP approval, at the same time that technical guidance is published to assist the development community. The Partnership and the RBF team have completed draft LID standards and the final version of a hydrology-hydraulic design tool. See Task ND.2.4 for more information on final versions of the standards and manual.

ND.2.3 Finalize Stormwater Quality Design Manual to integrate HMP and LID requirements

PERMIT REFERENCE	PERFORMANCE STANDARD
D.26	N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

The current Stormwater Permit requires the Development standards to be amended to include the HMP and LID requirements upon the Regional Water Board's approval of the 2011 HMP. The HMP was submitted on August 5, 2011 and has not been approved by the Regional Water Board to date.

The Partnership and the RBF team have completed draft LID standards, an update to the Stormwater Quality Design Manual, and the final version of a hydrology-hydraulic design tool - Sacramento Area Hydrology Model (SAHM) during the 2013/2014 fiscal year. These requirements, documents and tools will be evaluated, updated, if necessary, and implemented as a part of the new Region-wide MS4 Permit (Order No. R5-2016-0040, NPDES No. CAS0085324).

ND.2.4 Improve Hydromodification Analysis and Design Tools and Amend HMP if needed

PERMIT REFERENCE	PERFORMANCE STANDARD
D.15 c	N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

Amendments to the *Stormwater Quality Design Manual for the Sacramento Region* and SAHM have been completed and drafts are posted on the Partnership's website. The design tool and manual will be finalized upon finalizing the HMP and LID standards.

ND.3 Development Standards Implementation

ND.3.1 Participate in CEQA documents review and provide comments

PERMIT REFERENCE	PERFORMANCE STANDARD
D.17	N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

Stormwater Program staff reviewed three (3) CEQA documents during the 2015/2016 fiscal year to ensure incorporation of water quality requirements for construction and post-construction stormwater management. The documents were found to adequately cover the construction and post construction requirements, so no revisions were needed.

ND.3.2 Review and condition regulated private development projects through the entitlement process

PERMIT REFERENCE	PERFORMANCE STANDARD
D.17.	N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

Development Review staff continues to review all tentative maps and special permit applications and apply standard stormwater quality conditions to proposed projects within the City limits.

Those development projects are conditioned to prepare an erosion and sediment control (ESC) plan to comply with the City of Sacramento's Grading, Erosion and Sediment Control Ordinance; to obtain a State General Construction Permit, if the project is one (1) acre or greater in size; and to incorporate applicable post-construction source and treatment controls in accordance with the 2007 Stormwater Quality Design Manual. An advisory note regarding hydromodification management and LID strategies is also included for applicable projects. Standard conditions and a list of the projects conditioned in the 2015/2016 fiscal year are included in **Appendix 4B**. Stormwater Program staff provides training to Development Review staff to ensure implementation of the development standards throughout the entitlement process.

ND.3.3 Amend conditions of approval to incorporate HMP and LID requirements

PERMIT REFERENCE D.15	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, there were no updates to the conditions of approval. Upon finalizing the HMP and LID standards, the conditions of approval will be amended as needed.

ND.3.4 Incorporate proper regional facilities in development projects

PERMIT REFERENCE D.14.,D.22.	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

Regional facilities (i.e., detention basins) are often being proposed to address both water quality and flood control issues. DOU Engineering and Water Resources Division staff reviews development projects' master drainage plans. Stormwater Program staff works with DOU Engineering and Water Resources Division staff on reviewing the design of those regional facilities to ensure adequate capacity, accurate sizing for water quality flow as well as regular maintenance for long-term performance.

During the 2015/2016 fiscal year, there was two (2) regional facility proposed for development projects (i.e., Parkebridge and 8240 Folsom Blvd) within the City. The detention basin designs were reviewed for compliance with the required design criteria; comments have been provided to the project engineer and addressed as needed.

ND.3.5 Require source control, runoff reduction and/or treatment control measures for regulated private development projects

PERMIT REFERENCE D.14, D.22	PERFORMANCE STANDARD All regulated development projects incorporate required stormwater treatment control measures per development standards
<input checked="" type="checkbox"/> KEY INDICATOR	
3 ASSESSMENT LEVEL	

Summary of Work Completed

During the 2015/2016 fiscal year, 14 regulated development projects in the City submitted plans that incorporated applicable post-construction stormwater requirements.

See **Appendix 4K** for a Summary of On- Site Treatment Control Measures and **Appendix 4J** for a Map of On-site Treatment Control Measures approved as of June 30, 2016.

ND.3.6 Incorporate proper source control, runoff reduction and/or treatment control measures for regulated municipal CIP projects

PERMIT REFERENCE D.14, D.22	PERFORMANCE STANDARD All regulated CIP projects include adequate stormwater control measures
<input checked="" type="checkbox"/> KEY INDICATOR	
5 ASSESSMENT LEVEL	

Summary of Work Completed

The municipal Capital Improvement Program (CIP) projects, if determined to be a priority project according to the current thresholds, are required to comply with the Stormwater Permit requirements for post-construction stormwater management.

Stormwater Program staff reviewed one CIP project (16th Street Project Streetscape Project) from the Department of Public Works that incorporated stormwater treatment measures.

ND.3.7 Provide technical assistance to the development community and City staff on selection and design of stormwater treatment control measures for specific projects

PERMIT REFERENCE D.22, D.26	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

Stormwater Program staff has been actively involved in the review of development projects to ensure that stormwater management proposals are in compliance with the Stormwater Permit. Stormwater Program staff attended multiple meetings with Development Review staff, developers, and project engineers to discuss the stormwater management requirements, the selection of BMPs, and the maintenance requirements.

ND.3.8 Update program website to include new criteria on HMP and LID requirements

PERMIT REFERENCE D.26	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

The Partnership's New Development website was not majorly updated during the 2015/2016 fiscal year. Upon finalizing the HMP and LID standards, the website will be amended as needed.

ND.4 Maintenance Verification for Treatment Control Measures

ND.4.1 Require and process maintenance agreements for all treatment control measures on private property through the permitting process

PERMIT REFERENCE D.18	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

The City requires maintenance agreements for all stormwater treatment control measures including both – public domain measures (i.e., swales) and proprietary stormwater treatment devices (e.g., StormFilters) that are installed on private property. Those agreements require the property owner to maintain the stormwater treatment measure(s) and/or device(s) and to allow the City to conduct inspections of those stormwater treatment measure(s) and/or device(s). If an owner does not maintain its stormwater treatment measure(s) and/or device(s), the agreement allows the City to maintain the measure(s) and/or device(s) and to lien the property in order to recover its costs for that maintenance.

A total of 6 new agreements were recorded during the 2015/2016 fiscal year. Please refer to **Appendix 4K** which includes a sample maintenance agreement, maintenance record, and maintenance request letter.

ND.4.2 Develop a policy for verification of construction of stormwater control measures

PERMIT REFERENCE D.22	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

Policy being drafted and will be finalized upon HMP approval and Design Manual update.

ND.4.3 Send annual maintenance information request to property owners and review maintenance records

PERMIT REFERENCE D.22	PERFORMANCE STANDARD
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

Under the maintenance agreement for stormwater treatment control device(s) and/or measure(s) between a property owner and the City, the property owner/manager is required to inspect and maintain the device(s) and/or measure(s) and to submit the information to the City upon the City's request.

For water quality swales, the property owner/manager is required to complete and return a self-inspection form, which was provided with the maintenance request for the 2015/2016 fiscal year. For underground proprietary treatment devices, the property owner/manager is required to provide certification of inspection and maintenance by qualified Contractors, and/or the detailed inspection and maintenance record.

Annual maintenance information requests for the 2015/2016 fiscal year were sent to property owners on May 31, 2016. There are 119 sites where BMPs were installed on-site for stormwater runoff treatment and the property owner entered into a maintenance agreement with the City. 5 of these projects were not built yet, so

letters were sent to 103 sites with agreements and eleven (11) additional letters were sent to sites that did not have agreements, for a total of 114 letters. An example of the annual maintenance records request letter is included in **Appendix 4K**.

Responses and maintenance documents were reviewed and logged in the DOU Stormwater Program New Development Database. As of September 01, 2016, out of the 114 maintenance request letters, a total of 65 responses were received and a total of 50 sites were inspected (including 17 sites that submitted records) by City staff for a total of **98 out of 114** sites that either responded or were inspected by the City.

See task ND.4.5 for a discussion of maintenance records received in the 2014/2015 fiscal year as a result of letters sent in 2015.

ND.4.4 Follow-up with sites that don't respond or send insufficient maintenance data, and inspected sites that have maintenance problems

PERMIT REFERENCE D.22	PERFORMANCE STANDARD Reduce % of inadequate and/or non-response and reduce sites with improper maintenance of stormwater treatment control measures
<input checked="" type="checkbox"/> KEY INDICATOR	
3 ASSESSMENT LEVEL	

Summary of Work Completed

As a follow-up to the 2015/2016 fiscal year maintenance record review, the Stormwater Program staff inspected 31 sites where swales were installed as the stormwater treatment measure and the property owner or site manager did not respond to the annual maintenance request. City staff also inspected a total of 19 sites where proprietary underground devices were installed and the property owners did not provide any responses to the annual maintenance request. Stormwater Program staff will continue to implement field inspections of stormwater facilities.

96% (48 of 50) of the inspected sites were in compliance.

Stormwater Program staff continued providing information via email, phone calls and on-site training (per the Owner's request) to the property owner/managers regarding maintenance of stormwater treatment devices.

ND.4.5 Track treatment control measures, maintenance agreements and records in program database

PERMIT REFERENCE D.22	PERFORMANCE STANDARD
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

All maintenance agreements recorded, maintenance records received and inspections conducted during the 2015/2016 fiscal year were added to the New Development database.

ND.4.6 Update website with maintenance information (Examples, Illustrations, and Maintenance Guidance)

PERMIT REFERENCE D.22	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

Current maintenance information available on the City's website includes Maintenance Agreement Templates and the Self-inspection checklist.

Additional maintenance information will be provided on the website as needed.

ND.5 Training and Outreach

ND.5.1 Conduct annual training for planners and development review staff on stormwater quality requirements for private development projects

PERMIT REFERENCE D.25	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

Annual Stormwater training sessions were conducted with City planners and development review staff. See **Appendix 4E** for information on these training sessions.

In addition to those annual training sessions, Stormwater Program staff also provided technical assistance to Development Review staff during their review of various development projects during the 2015/2016 fiscal year.

ND.5.2 Conduct annual training for City staff (Project Managers from departments of General Services, Parks, Transportation and Utilities) on stormwater quality requirements for municipal projects

PERMIT REFERENCE D.25	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

Training for City staff in the Departments of Public Works (now includes General Services and Transportation), Parks, and Utilities were completed during the 2015/2016 fiscal year.

The training sessions for these City Departments focused on informing all project managers and project engineers on current Stormwater Permit requirements for City projects. Low impact development strategies and implementation were discussed with all groups. See **Appendix 4E** for information on those training sessions.

ND.5.3 Conduct annual training for City inspectors on the procedures to inspect stormwater treatment control measures

PERMIT REFERENCE D.25	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

City inspectors who conducted field inspections for various City Departments (e.g., Public Works and Utilities) were trained on the various types of control measures (e.g., swales, Stormwater planters). Training for the Building Inspectors was conducted on July 13, 2016 because of some scheduling challenges. The inspectors were trained to be able to identify and report issues with those control measures.

ND.5.4 Conduct outreach to the development community on stormwater quality requirements after development and approval of HMP and LID criteria

PERMIT REFERENCE D.24	PERFORMANCE STANDARD N/A
<input type="checkbox"/> KEY INDICATOR	
1 ASSESSMENT LEVEL	

Summary of Work Completed

Outreach will be conducted upon finalizing the HMP LID criteria/standards.

Element Effectiveness Assessment

On April 17, 2015, the Regional Water Board renewed the Partnership's 2008 Permit for a limited term (Limited Term Permit) to allow the option to participate in a Regional Monitoring Program (e.g., the Delta RMP). Under the Limited Term Permit, only Outcome Level 1 effectiveness assessment is required. The overall effectiveness of the SQIP and the individual Elements in reducing stormwater pollution to the maximum extent practicable, achieving compliance with water quality standards in receiving waters, and meeting performance standards was provided in the Long Term Effectiveness Assessment (LTEA) submitted to the Regional Water Board on March 15, 2013.

The following Effectiveness level 2 and above activities are tracked and reported to be used for future assessment of this program element.

The following activities are assessed in this section:

Task Number	Activity/Task	Performance Standard / Target	FY 15/16 Assessment Outcome*
ND.3.5	Require source control, runoff reduction and/or treatment control measures for regulated private development projects	All regulated development projects incorporate required stormwater treatment control measures per development standards	3
ND.3.6	Incorporate proper source control, runoff reduction and/or treatment control measures for regulated municipal CIP projects	All regulated CIP projects include adequate stormwater control measures	3
ND.4.4	Follow-up with sites that don't respond or send insufficient maintenance data, and inspected sites that have maintenance data	Reduce % of inadequate and/or non-response and reduce with improper maintenance of stormwater treatment control measures	3

*Assessment outcome levels may vary throughout the permit term. See the SQIP for information on the progression of key indicator outcome levels.

New Development Element Assessment Outcomes

ND.3.5 Require source control, runoff reduction and/or treatment control measures for regulated development projects

During the 2015/2016 fiscal year, 100% (14 out of 14) of the regulated development projects in the City submitted plans that incorporated applicable post-construction stormwater requirements. This task meets its target performance standard.

ND.3.6 Incorporate proper source control, runoff reduction and/or treatment control measures for regulated municipal CIP projects

During the 2015/2016 fiscal year, Stormwater Program staff audited and reviewed one (1) CIP project that was required to provide stormwater treatment measures and submitted plans that incorporated these requirements. This task meets its target performance standard.

ND.4.6 Follow-up with sites that don't respond or send insufficient maintenance data, and inspected sites that have maintenance data

Assuming that the developed sites that did not provide any responses (49 out of 114) have not been properly maintained, the percentage of sites with no responses is **43%** during the 2015/2016 fiscal year. Compared with the 2014/2015 fiscal year (40 out of 103), where that percentage was 40%, a slight increase in the number of sites with no responses was observed. Subsequent inspections by City staff of these non-response sites illustrated that the majority (33 out of 49) of these sites are maintaining their devices properly and no follow up was needed.

Assessment Summary and Proposed Element Changes

Work Plan Task Completion Summary

All tasks were completed per the Annual Work Plan.

Work Plan and/or SQIP Revisions and Changes

The Report of Waste Discharge and LTEA submitted to the Regional Water Board on March 15, 2013 included SQIP amendments in the form of proposed 5-year Work Plans for each Program and Element for the next permit term. These proposed SQIP amendments were not incorporated in the Limited Term Stormwater Permit due to the limited term of the order.

The City plans to obtain coverage under the new Region-wide MS4 Permit (Order No. R5-2016-0040, NPDES No. CAS0085324) during the 2016/2017 fiscal year. The SQIP will be updated in accordance with this Permit and the associated schedule of deliverables.

The 2016/2017 New Development Work Plan includes HMP and LID implementation timelines that are no longer applicable and do not match the Region-wide MS4 Permit provisions. The 2016/ 2017 Work Plan will be revised to comply with the Region-wide MS4 Permit requirements, including the HMP and LID implementation, and submitted with the NOI submittal.