



ANNUAL REPORT

Caltrans Stormwater Management Program



California Department of Transportation
Statewide Stormwater Management Program
Annual Report Fiscal Year 2013-2014
CTSW-RT-14-316.10.1
October 2014

California Department of Transportation Stormwater Management Program Annual Report

Fiscal Year

2013-2014

CTSW-RT-14-316.10.1



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October 1, 2014

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Certification

**STORMWATER MANAGEMENT PROGRAM
ANNUAL REPORT**

October 1, 2014

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G. Scott McGowen, Chief Environmental Engineer
Division of Environmental Analysis
California Department of Transportation

September 30, 2014

Date

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- Appendix A: Management and Organization
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Attachments (on CD)

- *Annual Report to the Legislature for Annual Year 2012, Coastal Anadromous Fish Passage Assessment and Remediation Progress Report*, October 2013, which describes the status of Caltrans' progress on locating, assessing, and remediating project-related barriers to fish passage. Also referred to as the "2013 Coastal Anadromous Fish Passage Assessment and Remediation Progress Report," this report was prepared pursuant to California Streets and Highway Code Section 156, Chapter 589, Statutes of 2005 (Senate Bill 857, Kuehl).
- *Year-End Performance Report, A Summary of Construction Compliance Inspections (July 1, 2013 through June 30, 2014)*, September 2014 (CTSW-RT-14-321.04.1), which summarizes the results of construction compliance inspections.
- *Year-End Performance Report FY 2013-2014, A Summary of Maintenance Activity Storm Water Compliance Reviews*, September 2014 (CTSW-RT-14-321.04.1), which summarizes the stormwater compliance reviews of Maintenance activities.
- *Year-End Performance Report FY 2013-2014, A Summary of Maintenance Facility Storm Water Compliance Reviews*, September 2014 (CTSW-RT-14-321.04.2), which summarizes the stormwater compliance reviews of Maintenance facilities.
- *Treatment BMP Technology Report*, October 2014 (CTSW-RT-14-999), which discusses the approved and unapproved post-construction technologies Caltrans has evaluated.
- *Ornamental Roadside Vegetated Treatment Sites (ORVTS) Study Final Report*, June 2013 (CTSW-RT-13-290.02.1), which assessed the ability of roadside slopes planted with various ornamental vegetation to reducing runoff volume, and constituent concentration and load.
- *Stormwater Monitoring and BMP Development Status Report: Fiscal Year 2013-2014 Update* (CTSW-RT-14-312.01.01), which provides an update on the status of stormwater treatment technology studies, source control studies (including erosion control studies), and stormwater quality characterization for the 2013-2014 fiscal year.
- Caltrans certification of legal authority, signed by Ronald W. Beals, September 29, 2014.

For immediate access to these reports and data, see the enclosed compact disc (CD). For a complete list of these and all other Caltrans stormwater management and research reports, please see the Caltrans Headquarters Stormwater Division of Environmental Analysis (DEA) [website](#).

Acronyms

ASBS	Areas of Special Biological Significance
BMP	best management practice
CASQA	California Stormwater Quality Association
CCEP	Construction Compliance Evaluation Plan
CGP	Construction General Permit (Statewide)
CPESC	Certified Professional in Erosion and Sediment Control
DCSWC	District Construction Stormwater Coordinator
DTSC	Department of Toxic Substances Control
DWP	District Work Plan
DWQ	Division of Water Quality
EPA	U.S. Environmental Protection Agency
IC/ID	illicit connection/illegal discharge
IMMS	Integrated Maintenance Management System
LAP	Landscape Architecture Program
MS4	municipal separate storm sewer system
NPDES	National Pollutant Discharge Elimination System
OSWMD	Office of Stormwater Management Design
PPDG	Project Planning and Design Guide
PS&E	plans, specifications and estimate
RWQCB	Regional Water Quality Control Board
SMARTS	Storm Water Multiple Application and Report Tracking System
SWAT	Stormwater Advisory Team
SWDR	Stormwater Data Report
SWMP	Stormwater Management Plan
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TMDL	total maximum daily load
WPCP	Water Pollution Control Program

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Executive Summary

The California Department of Transportation (Caltrans) *Stormwater Management Program Annual Report* (CTSW-RT-14-316.10.1) (Annual Report) describes the stormwater management activities Caltrans performed from July 1, 2013 to June 30, 2014. It complies with the reporting requirements in Caltrans' Statewide National Pollutant Discharge Elimination System (NPDES) Stormwater Permit (Order No. 2012-0011-DWQ) (Caltrans NPDES Permit) and *Draft Statewide Stormwater Management Plan* (submitted as a draft to the State Water Resources Control Board in July 2014) (Draft SWMP)¹. During the reporting period, the Draft SWMP was revised to address the Caltrans NPDES Permit requirements. The current Caltrans NPDES Permit became effective on July 1, 2013.

Caltrans strives to maintain and improve water quality through implementation of its Stormwater Program, while fulfilling its mission to improve mobility across California. Water quality protection is a key component of Caltrans' day-to-day business practices throughout the project development and delivery process, and during maintenance and operations activities.

This report describes specific measures that Caltrans took during the year to maintain and improve runoff water quality, and assesses the effectiveness of each water pollution control activity performed. Among the water quality control measures used were best management practices (BMPs), training courses and guidance, the [Adopt-A-Highway](#) public education campaign, and public outreach efforts in all twelve Caltrans Districts. In addition, Caltrans continued its research into pollution control technologies that are compatible with highway infrastructure, and effectively remove roadway pollutants.

Key Accomplishments

Statewide, Caltrans accomplished the following during the fiscal year:

- Inspected 8,068 miles of 44,971 shoulder miles (18%).
- Inspected 5%, and cleaned about 1% of the storm drain inlets.
- Continued to track and record chemical usage while investigating more effective treatment strategies using the seven elements identified in the Integrated Vegetation Management (IVM) Program.
- Inspected maintenance activities (average 24 per District) and maintenance facilities (35%).
- Trained 39% of Encroachment Permits staff, 38% of NPDES staff, 47% of Construction staff, and 100% of Maintenance staff.
- Planned for incorporation of 773 treatment BMPs, including construction of biofiltration swales, biofiltration strips, and other BMPs from 131 separate projects.
- Performed water quality monitoring at over 100 Tier 1 sites.
- Inspected 96,690 of 396,525 drain inlets (24%) and cleaned 67,556 drain inlets (70% of those inspected), 17% overall.
- Inspected 35% of 434 maintenance facilities during the Maintenance Self-Audit.
- Trained approximately 4,611 employees and 707 contractors, providing overall and task-level training for the Planning and Design, Construction, Maintenance, Encroachment, Right-of-Way, and NPDES functional units.

¹ All references made to the SWMP in this Annual Report pertain to the Draft 2014 edition of the SWMP.

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Background and Purpose

This document, the *Stormwater Management Program Annual Report* (CTSW-RT-14-316.10.1) (Annual Report) summarizes stormwater management activities conducted by the California Department of Transportation (Caltrans) during fiscal year July 1, 2013 to June 30, 2014 (reporting period). These activities protected stormwater quality while maintaining motorist and worker safety and meeting Caltrans’ mission of improving mobility across California. Due to diverse geographic, climatic, population, and regulatory conditions, Caltrans uses a variety of strategies to control the discharge of pollutants from roadways and other transportation facilities, while promoting consistency statewide when possible. The Annual Report describes specific activities completed by Caltrans during the reporting period to implement those strategies.

The Annual Report complies with the reporting requirements described in Caltrans’ Statewide National Pollutant Discharge Elimination System (NPDES) Stormwater Permit (Order No. 2012-0011-DWQ) (Caltrans NPDES Permit) and Caltrans’ *Draft Statewide Stormwater Management Plan* (submitted to the State Water Board on July 1, 2014) (Draft 2014 SWMP). The Caltrans NPDES Permit became effective on July 1, 2013.

This Annual Report is organized consistent with the Draft 2014 SWMP sections. The accomplishments achieved during the reporting period are discussed in each section, and the supporting data and additional detailed information is compiled in the appendices and attachments on the attached compact disc (CD).

Status of Permit and SWMP Requirements

Table 1 lists Caltrans NPDES Permit reporting requirements for the 2013-2014 reporting period.

Table 1: Caltrans Annual Reporting Requirements in 2012 Permit (from Order 2012-0011-DWQ)

2012 Permit Section(s)	Requirement(s)	Location in Annual Report
E.1.a., Pg. 23, and Att. IX	Caltrans shall update, maintain and implement an effective SWMP that describes how Caltrans will meet requirements of this Order as outlined in E.1.b below. ... The SWMP shall be reviewed annually and modified as necessary to maintain an effective program in accordance with the procedures of this Order.	Section 2
E.2.b.1)b), Pg. 25	Caltrans shall include a MUNICIPAL COORDINATION PLAN in the SWMP. ... Caltrans shall report on the status and progress of interagency coordination activities in each Annual Report.	Section 2
E.2.b.2)b), Pg. 25, and Att. IX	Caltrans shall submit annually, as part of the Annual Report, a CERTIFICATION OF THE ADEQUACY OF LEGAL AUTHORITY .	Section 2

Table 1: Caltrans Annual Reporting Requirements in 2012 Permit (from Order 2012-0011-DWQ)

2012 Permit Section(s)	Requirement(s)	Location in Annual Report
E.2.b.3)b), Pg. 25-26, and Att. IX	<p>Caltrans shall submit a FISCAL ANALYSIS of the storm water program annually. At a minimum, the fiscal analysis shall show:</p> <ul style="list-style-type: none"> i) Location of funds to the Districts for compliance with this Order; ii) Funding for each program element. iii) Comparison of actual past year expenditures with the current year's proposed expenditures and next year's proposed expenditures; iv) How funding has met the goals specified in the SWMP and District work plans; v) Description of any cost sharing agreements with other responsible parties in implementing stormwater management program. 	Section 2
E.2.b.6), Pg. 26-27	<p>Incident Reporting –Non-Compliance and Potential/Threatened Non-Compliance: Caltrans shall report all known incidents of non-compliance with this Order.... Caltrans shall include in the Annual Report a summary of all incidents by type and District, and report on the status of each.</p>	Section 2
E.2.c.2)(a)i)(1)(b), Pg. 28	<p>For storm water outfalls in existence as of December 31, 2007, 18 inches (457mm) or greater in diameter/width, including multiple outfall pipes in combination having a width of 18 inches, runoff flows must be measured or calculated, using a method acceptable to and approved by the State Water Board. Report measurements annually for each precipitation season to the State and Regional Water Boards.</p>	Section 3
E.2.c.5), Pg. 35, and Att. IX	<p>Caltrans shall submit, separate from the Annual Report, a MONITORING RESULTS REPORT (MRR) by October 1 of each year.</p>	Section 3
E.2.c.6)b), Pg. 35 E.2.f.6), Pg. 46	<p>E.2.c.6)b) Caltrans shall summarize, by District, all non-compliance incidents, including construction, in the Annual Report.</p> <p>E.2.f.6) Caltrans shall provide in the Annual Report a summary of all construction project non-compliance.</p>	Section 2
E.2.d.4), Pg. 43	<p>Caltrans shall submit to the State Water Board by October 1 of each year the same report required under Article 3.5 of the Streets and Highways Code requiring Caltrans to report on the status of its efforts in locating, assessing, and remediating barriers to fish passage.</p>	Section 5
E.2.e., Pg. 43, and Att. IX	<p>Caltrans shall submit updates to the STORM WATER TREATMENT BMP TECHNOLOGY REPORT and the STORM WATER MONITORING AND BMP DEVELOPMENT STATUS REPORT in the Annual Report.</p>	Section 4
E.2.e.2)d) Pg. 44-45	<p>Caltrans shall develop and use a watershed-based database to track and inventory treatment BMPs and treatment BMP maintenance within its jurisdiction. A summary of the tracking system data shall be included in the Annual Report along with a report on maintenance activities for post construction BMPs.</p>	Section 4

Table 1: Caltrans Annual Reporting Requirements in 2012 Permit (from Order 2012-0011-DWQ)

2012 Permit Section(s)	Requirement(s)	Location in Annual Report
E.2.h.2), Pg. 46-47, and Att. IX	Caltrans shall identify in each Annual Report the status of the FPPP (Facility Pollution Prevention Plan) for each Maintenance Facility by District and Region, including the date of the last update or revision and the nature of any revisions.	Section 8
E.2.h.3)a)(iii), Pg. 47	Identify road segments with slopes that are prone to erosion and sediment discharge and stabilize these slopes to control the discharge of pollutants to the MEP. An inventory of vulnerable road segments shall be maintained in the District Work Plans. Stabilization activities shall be reported in the Annual Report. This section does not apply to landslides and other forms of mass wasting which are covered under section E.2.h.3)d).	Section 8
E.2.h.3)b)i)(1)-(2), Pg. 48	Apply herbicides and pesticides in compliance with federal, state and local use regulations and product label directions. (1) Violations of regulations shall be reported to the County Agricultural Commissioners within 10 business days. (2) The Annual Report shall include a summary of violations and follow-up actions to correct them.	Section 8
E.2.h.3)b)(vii) (1) through (7), Pg. 48-49	Include the following items in the Annual Report [regarding Vegetation Control]: (1) A summary of chemical use; (2) Assessment on long-term trends of herbicide usage; (3) Comparison of Statewide herbicide use with Caltrans' reduction goals; (4) Analysis of effectiveness of Vegetation Control; (5) Justification of any increases in pesticide usage; (6) Number and percent of employee trained on pesticide applications; (7) Training materials, if requested by the State Water Board.	Section 8
E.2.h.3)d), Pg. 50, and Att. IX (1st Annual Report only)	Caltrans shall submit the LANDSLIDE MANAGEMENT PLAN with the Year 1 Annual Report and implement the LANDSLIDE MANAGEMENT PLAN for the remainder of the Permit term.	Section 8
E.2.h.4)c), Pg. 50-51	Reporting Requirements for Trash and Litter:... Results shall be submitted as part of the Annual Report in a summary format by District. Prior year's data shall be included to facilitate an analysis of trends.	Section 8
E.2.k.3), Pg. 53	Caltrans shall provide a review and assessment of all training activities in the Annual Report.	Sections 11 & Section 14
E.2.l.2), Pg. 53, and Att. IX	A PUBLIC EDUCATION PROGRAM PROGRESS REPORT shall be submitted as part of the Annual Report.	Section 12
E.2.m.2), Pg. 53, and Att. IX	Field Activities SELF-AUDIT : ... The results of the field compliance evaluations for each fiscal year will be provided in the Annual Report.	Section 5 , Section 6 , Section 8 , and Section 14
E.2.m.3), Pg. 54, and Att. IX	OVERALL PROGRAM EFFECTIVENESS EVALUATION : Each year, Caltrans shall submit an OVERALL PROGRAM EFFECTIVENESS EVALUATION together with the Annual Report.	Section 14

Table 1: Caltrans Annual Reporting Requirements in 2012 Permit (from Order 2012-0011-DWQ)

2012 Permit Section(s)	Requirement(s)	Location in Annual Report
E.2.n., Pg. 54	Measurable Objectives: ... In the Annual Report, Caltrans shall report on its progress in meeting the measurable objectives.	Section 15
E.3.a., Pg. 54-55	<p>Caltrans shall submit 13 copies of an ANNUAL REPORT to the State Water Board Executive Director by October 1 of each year. An electronic copy shall also be uploaded into SMARTS in the portable document format (PDF). The reporting period for the Annual Report shall be July 1 through June 30. The Annual Report shall contain all information and submittals required by this Order including, but not limited to:</p> <ol style="list-style-type: none"> 1) A District-by-District description of storm water pollution control activities conducted during the reporting period; 2) A progress report on meeting the SWMP's measurable objectives; 3) An Overall Program Effectiveness Evaluation as described in section E.2.m.3); 4) Proposed revisions to the SWMP, including revisions to existing BMPs, along with corresponding justifications; 5) A report on post-construction BMP maintenance activities; 6) A list of non-approved BMPs that were implemented in each District during the reporting period including the type of BMP, reason for use, physical location, and description of any monitoring; 7) An evaluation of project planning and design activities conducted during the year; 8) A summary of non-compliance with this Order and the SWMP as specified in Section E.2.c.6)b). The summary shall include an assessment of the effectiveness of any Department enforcement and penalties, and as appropriate, proposed solutions to improve compliance; 9) An evaluation of the Monitoring Results Report, including a summary of the monitoring results; 10) Proposed revisions to Caltrans' Vegetation Control Program; 11) Proposals for monitoring and control of non-storm water discharges that are found to be sources of pollutants as described in Section B. of this Order; 12) District Workplans (see below); and 13) Measures implemented to meet region-specific requirements. 	Section 16

Table 1: Caltrans Annual Reporting Requirements in 2012 Permit (from Order 2012-0011-DWQ)

2012 Permit Section(s)	Requirement(s)	Location in Annual Report
E.3.b., Pg. 55-56, and Att. IX	<p><i>DISTRICT WORKPLANS</i> Caltrans shall submit <i>DISTRICT WORKPLANS</i> (workplans) for each District by October 1 of each year, as part of the Annual Report.... Workplans shall conform with the requirements of applicable Regional Water Board Basin Plans and shall include, at a minimum:</p> <ol style="list-style-type: none"> 1) A description of all activities and projects, including maintenance projects, to be undertaken by the Districts. For all projects with soil disturbing activities, this shall include a description of the construction and post construction controls to be implemented; 2) The area of new impervious surface and the percentage of new impervious surface to existing impervious surface for each project; 3) The area of disturbed soil associated with each project or activity; 4) A description of other permits needed from the Regional Water Boards for each project or activity; 5) Potential and actual impacts of the discharge(s) from each project or activity; 6) The proposed BMPs to be implemented in coordination with other MS4 permittees to comply with WLAs and LAs assigned to Caltrans for specific pollutants in specific watersheds or sub watersheds; 7) The elements of the statewide monitoring program to be implemented in the District; 8) Identification of high-risk areas (such as locations where spills or other releases may discharge directly to municipal or domestic water supply reservoirs or ground water percolation facilities); 9) Spill containment, spill prevention and spill response and control measures for high-risk areas; and 10) Proposed measures to be taken to meet Region-specific requirements included in Attachment V. 11) An inventory of vulnerable road segments having slopes that are prone to erosion and sediment discharge. 	Section 16

Table 1: Caltrans Annual Reporting Requirements in 2012 Permit (from Order 2012-0011-DWQ)

2012 Permit Section(s)	Requirement(s)	Location in Annual Report
E.4.c., Pg. 57-58, and Att. IX	<p>Status Review Report</p> <p>Caltrans shall prepare a TMDL STATUS REVIEW REPORT to be submitted with each Annual Report. The TMDL Status Review Report shall include the following information for all TMDLs listed in Attachment IV.</p> <ol style="list-style-type: none"> 1) An analysis of the effectiveness of existing BMPs and activities in meeting existing TMDLs; 2) A summary update of monitoring activities for each TMDL and any monitoring needed to demonstrate compliance with an approved TMDL; 3) A summary of measures implemented to comply with existing TMDLs; 4) A summary of measures and a time schedule to meet existing TMDLs; 5) An update of Caltrans Statewide TMDLs table; 6) A summary of TMDLs adopted during the past year where Caltrans is assigned a WLA or Caltrans is identified as a responsible party in the implementation plan 	<p>Section 16</p>

2 Management and Organization

Program Management

Caltrans' Water Quality Management Assurance Team met twice during the reporting period to discuss

- TMDL implementation preparation,
- program improvements, and
- compliance tracking.

Caltrans continued to meet with State Board staff to discuss Caltrans NPDES Permit Attachment IV, Total Maximum Daily Load Requirements, including

- Caltrans' 84 TMDLs,
- reach prioritization,
- compliance by pollutant categories, and
- reporting requirements for the TMDL status review report and compliance units achieved.

Caltrans Management and each of the Headquarters and District Functional Units held briefings regarding permit requirements and TMDL compliance.

Caltrans participated in discussions regarding upcoming requirements for the

- Statewide Trash Amendments,
- Statewide Stormwater Strategic Plan, and
- regional watershed programs.

The Division of Environmental Analysis created a new

- Watershed Manager position to help coordinate and track efforts on watershed mandates, such as TMDLs, watershed management programs, and regional requirements, and
- Fiscal Analysis office to assist in tracking stormwater resources.

Revised SWMP Status

The SWMP describes how Caltrans addresses stormwater pollution control related to Caltrans activities, including planning, design, construction, maintenance, and operation of roadways and facilities. It explains how Caltrans will comply with the requirements of the Caltrans NPDES Permit and the *National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities* (Order No. 2009-0009-DWQ) (SWRCB, 2009) (Statewide Construction General Permit or Statewide CGP) as amended by Order No. 2010-0014-DWQ. Caltrans will submit the latest Draft SWMP to the State Water Board in July 2014.

Municipal Coordination Plan Activities

Caltrans' Municipal Coordination Plan was under development during the reporting period. In the interim, the Districts participated in municipal coordination activities by attending meetings, taking part in special studies, and collaborating with local agencies. District staff attended at least 272 meetings statewide with municipal stormwater permittees to coordinate the implementation of total maximum daily loads (TMDLs), public education and outreach, regional planning, and other related activities. Appendix A has detailed information on the municipal coordination activities performed during the reporting period. The following cooperative agreements were established related to conducting monitoring and addressing TMDLs:

- Calleguas Creek Watershed TMDL – Calleguas Municipal Water District
- Ventura River Estuary Trash TMDL – County of Ventura Public Works Agency

- Malibu Creek Bacteria TMDL Coordinated Monitoring Plan Implementation Agreement – City of Agoura Hills
- Memorandum of Agreement (MOA) West Basin Municipal Water District – West Basin Municipal Water District
- Los Angeles River Metals TMDL Reach 1 Implementation Plan, Phase II – Gateway Cities Council of Governments
- MOA Cost Sharing of Implementing Coordinated Monitoring Plan for Marina Del Rey Mothers' Beach and Back Basins Bacteria TMDL – City of Los Angeles
- MOA Monitoring Plan for TMDL Bacterial Indicator Densities in Ballona Creek, Ballona Estuary and Sepulveda Channel – City of Los Angeles
- Lake Elsinore and San Jacinto Watershed Authority (LESJWA) – Lake Elsinore and San Jacinto Watershed Authority
- Chollas Creek Hydrologic Sub Area (HSA) TMDL – City of San Diego
- Tecolote Hydrologic Area (HA) TMDL – City of San Diego
- Los Penasquitos Watershed Management Area TMDL – City of San Diego
- San Diego River Watershed TMDL Compliance Activities Fiscal Year 2014-2016 Shared Costs Program – County of San Diego, Department of Public Works
- San Luis Rey River Watershed TMDL Compliance Activities Fiscal Year 2013-2016 Shared Costs Programs – County of San Diego, Department of Public Works
- Chollas Creek Dissolved Metals TMDL – City of San Diego
- Central Coast ASBS Regional Monitoring Program MRWPCA MOA – Monterey Regional Water Pollution Control Agency

For more information on cooperative agreements activities completed during the fiscal year, see Section 16 and Appendix M.

Fiscal Analysis

Caltrans' Stormwater Management Program was appropriated \$100,617,000 to comply with the Caltrans NPDES Permit and related activities in fiscal year 2013-2014. Total expenditures were \$76,433,776.52, with \$43,849,289.11 in personal services, \$32,584,487.41 in operating expenses, and 480.94 Personnel Years (PYs). Infrequent storm events and a late Caltrans NPDES Permit adoption helped generate savings this fiscal year. These savings are not expected to continue as Caltrans' Stormwater Management Program continues to grow to comply with the new permit requirements.

In fiscal year 2013-2014, Caltrans added 25 permanent positions to assist with the increased workload and assess statewide programmatic and fiscal impacts of the Caltrans NPDES Permit requirements that increased BMPs and monitoring sites. The number of BMPs installed and requiring maintenance is expected to continue increasing as effective pilot BMPs are added to the inventory and additional BMPs are installed to keep up with revised Caltrans NPDES Permit requirements. Additionally, the number of monitoring sites increased from 24 sites in 2012-2013 to 109 sites in 2013-2014 (excluding cooperative monitoring sites) to comply with new Caltrans NPDES Permit provisions. The Caltrans NPDES Permit lists 84 TMDLs, currently containing 382 reaches. If TMDL reach priorities are set as proposed, then five to 10 new BMPs will be built and monitored to comply with new Caltrans NPDES Permit requirements. These and other BMPs to address trash will be added to earn the required annual 1,650 compliance units. Therefore, the program is expecting additional costs in future fiscal years and is taking the necessary steps to identify these new costs.

Appendix A summarizes the statewide Stormwater District and Division Expenditures during fiscal year 2013-2014.

Coordination with Statewide and National Associations

Caltrans actively participated as a member of the California Stormwater Quality Association® (CASQA) by serving on its Board of Directors, discussing NPDES-related initiatives, municipal separate storm sewer system (MS4) permits, policy, participated in workgroups at quarterly meetings, and co-sponsored the Water Quality NewsFlash as part of a public education and outreach effort.

Caltrans coordinated nationally with other transportation departments on stormwater implementation strategies via the American Association of State Highway and Transportation Officials (AASHTO). The Chief Environmental Engineer, Scott McGowen, chairs the AASHTO Stormwater Working Group, in which members discussed emerging issues, developed briefing papers, collaborated on lessons learned on MS4 Audits, and prepared for the July 2014 National Stormwater Practitioners Meeting in Washington DC. Topics included:

- Current trends in stormwater management programs and regulations
- EPA Audit preparations, MS4 permits, and lessons learned during DOT MS4 audits
- Construction contract administration for stormwater
- Asset/data management and tracking
- Research findings and tools
- Maintenance best practices and water quality
- TMDL implementation and the watershed approach

Caltrans also participated in a monthly Center for Environmental Excellence by AASHTO Stormwater Community of Practice, a nationwide discussion held with other transportation departments on relevant topics, such as water quality monitoring and watershed-based stormwater management.

Legal Authority

The Caltrans NPDES Permit requires Caltrans to review its legal authority and ensure it is adequate to comply with its provisions and with the Draft 2014 SWMP. There were no changes in Caltrans' legal authority regarding the protection of stormwater. Caltrans' legal authority certification is attached to the Annual Report on the CD.

Incident Reporting – Non-Compliance and Potential/Threatened Non-Compliance

Caltrans reported known emergency, field, administrative, and anticipated (threatened) non-compliance incidents via the Storm Water Multiple Application Report and Tracking System (SMARTS) (Caltrans NPDES Permit Section E.2.b.6 and Draft 2014 SWMP, Table 16-1). During the 2013-2014 fiscal year, Caltrans complied with this requirement as summarized in Appendix A, Table A-15.

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3 Monitoring and Discharge Characterization Program

Caltrans conducted wet season monitoring during the 2013-2014 fiscal year to address Caltrans NPDES Permit Section E.2.c requirements.

Tier 1 Site Monitoring

The Caltrans NPDES Permit states, in part, that a minimum of 100 Tier 1 and Tier 2 sites (if needed) be monitored each year. Tier 1 sites are defined as either Areas of Special Biological Significance (ASBS) or TMDL sites. Caltrans performed water quality monitoring at 84 ASBS sites during the 2013-2014 precipitation season. Twenty-five additional sites in adopted TMDL watersheds were selected and monitored to meet the Caltrans NPDES Permit requirement for monitoring a minimum of 100 Tier 1 sites. Caltrans has submitted a Tier 1 Monitoring Site Priority List for ASBS sites to the State Board. The list is pending formal approval by the State Board. Table 2 summarizes the Caltrans NPDES Permit-required monitoring performed in the reporting period. Results of this monitoring effort are included in the Monitoring Results Report, which is to be submitted separately.

Outfall Flow Measurements during the Precipitation Season

Seasonal runoff volumes were estimated at the monitored ASBS outfall locations (see Table 2). The runoff volume estimates were calculated based on the drainage area, depth of measured rainfall at the nearby rain gage, and a runoff coefficient that is a function of percent imperviousness. The drainage area was estimated from maps, and for selected sites, the area was verified by direct field observations. For the Tier 1 TMDL sites included in Table 2, flow rate measurements were obtained whenever flow weighted samples were collected.

Tier 2 Site Monitoring

Tier 2 sites are defined by the Caltrans NPDES Permit as monitoring locations that are outside of both ASBS and TMDL watersheds where characterization monitoring may be of interest. Tier 2 site monitoring is only required when the number of Tier 1 sites available for monitoring falls below 100. Caltrans submitted a Tier 2 site selection and prioritization list to the State Board. This list is pending review and approval by the State Board. Tier 2 sites were not monitored during the reporting period, since Caltrans met the 100 monitoring site threshold with Tier 1 sites. Proposed monitoring sites were not monitored during the reporting period, but may be sampled and reported on in future Annual Reports.

Table 2: Permit-Required Monitoring (Tier 1/Tier 2)

ASBS Core Monitoring Sites
<ul style="list-style-type: none"> ● 17 Core Monitoring sites in District 1 ● 6 Core Monitoring sites in District 4 ● 2 Core Monitoring sites in District 5 ● 47 Core Monitoring sites in District 7 ● 5 Core Monitoring sites in District 12
ASBS Ocean Receiving Water and Reference Monitoring Sites
<ul style="list-style-type: none"> ● 2 Ocean receiving water sites in District 1 ● 2 Ocean receiving water sites in District 4 ● 1 Ocean receiving water sites in District 5 ● 1 Ocean receiving water sites in District 7 ● 1 Ocean receiving water site in District 12

Table 2: Permit-Required Monitoring (Tier 1/Tier 2)

TMDL Monitoring Sites
<ul style="list-style-type: none"> ● 4 Monitoring sites in District 3 ● 7 Monitoring sites in District 4 ● 3 Monitoring sites in District 7 ● 2 Monitoring sites in District 8 ● 1 Monitoring site in District 10 ● 5 Monitoring sites in District 11 ● 3 Monitoring sites in District 12

Other Water Quality Monitoring

Other water quality monitoring efforts include independently funded projects, as well as collaborative efforts with other stakeholders, such as municipalities, the SWRCB and RWQCBs, and stormwater quality researchers.

Table 3 summarizes monitoring and applied studies completed or in progress and reports prepared during the reporting period. Cooperative monitoring efforts do not have standard document numbers and only the report titles are available.

Table 3: 2013-2014 Fiscal Year Monitoring Efforts and Associated Reports

Document ID No.	Title/Description	Report Type
NA	Cold-Climate Region study to evaluate the effectiveness of a Delaware Sand Filter (DSF) in removing region-specific constituents of concern from highway stormwater runoff	Ongoing (due winter 2014)
NA	ASBS Core Discharge, Ocean Receiving Water and Reference Area Monitoring Program	In progress
NA	Caltrans NPDES Permit Section E.2.c) TMDL Monitoring 2013-2014	In progress
CTSW-OT-13-999.43.01	Caltrans Stormwater Monitoring Guidance Manual	Guidance
CTSW-RT-12-293.01.13	Rainbow Creek Nutrient TMDL Implementation Monitoring 2012-2013 Wet Season Project	Monitoring Report
CTSW-RT-13-239.15.02	Stormwater Monitoring and BMP Development Status Report: Fiscal Year 2012-13 Update	Monitoring Report
CTSW-RT-13-289.8.1	Final Alternative Abrasives Assessment Report Sampling and Analysis of Alternative Abrasives	Report
CTSW-RT-13-290.02.1	Ornamental Roadside Vegetated Treatment Sites (ORVTS) Study	Report
CTSW-RT-13-293.02.08	Chollas Creek Dissolved Metals TMDL Implementation Monitoring 2012-2013 Wet Season and Study Final Report	Report
CTSW-RT-13-305.01.1	Roadway, Sweeper and Decanting Material Sampling and Analysis	Report
CTSW-RT-12-259-13.5	Research in Support of Microbial Water Quality Improvements from Highway Facilities	Report
CTSW-OT-13-288.05	San Francisco-Oakland Bay Bridge Stormwater Bioretention Basins	Report
Cooperative Monitoring Effort	Revolon Slough/Beardsley Wash 2011-2012 Trash TMDL TMRP/MFAC Annual Report	Report
Cooperative Monitoring Effort	Ventura River Estuary 2011-2012 Trash TMDL TMRP/MFAC Annual Report	Report

Table 3: 2013-2014 Fiscal Year Monitoring Efforts and Associated Reports

Document ID No.	Title/Description	Report Type
Cooperative Monitoring Effort	ASBS Regional Monitoring Program – Ocean Reference Areas Southern, Central and Northern California	Ongoing
Cooperative Monitoring Effort	Calleguas Creek Watershed TMDL Compliance Monitoring Program, Fifth Year Annual Monitoring Report, February 2014	Report
Cooperative Monitoring Effort	Malibu Creek Watershed (Los Angeles County Area), 6th Annual Report, Compliance Monitoring Program, March 2014	Report
Cooperative Monitoring Effort	Ventura River Estuary trash TMDL 2012-2013 Annual Report	Report
Cooperative Monitoring Effort	Revolon Slough/Beardsley Wash 2012-2013 Trash TMDL TMRP/MFAC Annual Report	Report
Cooperative Monitoring Effort	Santa Monica Bay Beaches Bacteria TMDL Coordinated Shoreline Monitoring	Excel data files
NA	Examination of Ballona Creek, Ballona Estuary, and Sepulveda Channel Bacteria TMDL – Month of June 2014 RE: Ballona Creek, Ballona Estuary, and Sepulveda Channel Bacterial Total Maximum Daily Load Coordinated Monitoring RE: Del Rey Lagoon Coordinated Monitoring Plan	Monthly Monitoring Submittal
NA	Annual Monitoring Report for Marina del Rey Harbor Toxic Pollutants TMDL Coordinated Monitoring Program Implementation, Ambient Monitoring Program, August 2013 to July 2014	Annual Monitoring Report
NA	Examination of SMBBB TMDL Stations of Santa Monica Bay Month of June 2014 RE: Santa Monica Bay Beaches Bacterial Total Maximum Daily Load Coordinated Shoreline Monitoring Plan	Monthly Monitoring Submittal
NA	Examination of DHS SMBBB TMDL Stations of Santa Monica Bay Month of June 2014 RE: Santa Monica Bay Beaches Bacterial Total Maximum Daily Load Coordinated Shoreline Monitoring Plan – Department of Public Health Bacteriological Data	Monthly Monitoring Submittal

NA: Not Available

Monitoring Activities

Caltrans conducted statewide stormwater monitoring at 84 priority Tier 1 ASBS sites during the 2013-2014 storm season. In addition to ASBS monitoring, Caltrans conducted Tier 1 TMDL monitoring at 25 discharge sites in TMDL watersheds. Caltrans also entered, and continues to enter, into a number of TMDL cooperative agreements throughout the state. The agreements between Caltrans and other responsible parties currently cover 11 TMDL watersheds and 158 sites. Some of these agreements include provisions to perform monitoring activities related to the adopted TMDLs.

For determination of compliance with ocean natural water quality, the Caltrans NPDES Permit and ASBS Special Protections require comparison of the post-storm receiving water quality with the 85th percentile threshold of reference water quality, and pre-storm receiving water quality with post-storm receiving water quality. At least two storms require monitoring at a given site. Sampling and data collection for the ASBS ocean reference areas were performed by the Southern California Coastal Water Research Project (SCCWRP) under a State Water Board grant program. The analyses of grant program reference monitoring data to establish ocean natural water quality thresholds is expected to be completed

by December 2014 (communication from SCCWRP). In addition, at most ASBS sites, only one event has been monitored because of the ongoing drought.

Three TMDL sites in the Chollas Creek watershed (Site IDs 11-100, 11-336, 11-337) and one TMDL site in the Rainbow Creek watershed (Site ID 11-332) have been identified for corrective action. Modular infiltration devices have been or are currently being installed at the Chollas Creek sites. At the Rainbow Creek site, removal of vegetation within the Caltrans ROW channel has commenced. At three other sites in Los Angeles River and Malibu Lagoon (Site IDs 7-09, 7-201, and 7-336), monitoring data is insufficient to determine the need for corrective actions.

The Monitoring Results Report will be submitted separately as required by the Caltrans NPDES Permit. The report is due for submittal to the State Board on October 1, 2014. The Tier 2 Monitoring Site Priority List has been submitted to the State Board and is pending approval.

4 BMP Development and Implementation

Post-Construction Treatment BMPs Tracking System and Maintenance

Construction coordinates with maintenance personnel to facilitate transfer of treatment BMPs to the Division of Maintenance using a designated handoff form. The Division of Maintenance uses its Integrated Maintenance Management System (IMMS) to track maintenance records for treatment BMPs as provided by the Districts. Treatment BMPs are maintained according to Caltrans maintenance guidance. Data from the Caltrans Treatment BMP Database and from Treatment BMP maintenance activities are located in Appendix B. Types of treatment BMPs that Caltrans has installed include:

- Biofiltration (biostrip and bioswale)
- Continuous deflection separation
- Drain inlet insert
- Gross Solids Removal Device (GSRD) (long tube radial device, inclined v-screen, and concrete baffle box)
- Infiltration device (detention basin, trench, wet basin)
- Media filter (Austin sand filter, Delaware sand filter, and compost filter)
- Multi-Chambered Treatment Train (MCTT)
- Oil/water separator
- StormFilter®
- Traction sand trap

Stormwater Treatment BMP Technology Report and the Stormwater Monitoring and BMP Development Status Report

Caltrans continued to track new or emerging post-construction stormwater treatment technologies. The updated Treatment BMP Technology Report is attached to this Annual Report (CD attachment). One post-construction BMP, Water Decontaminator WD-10X18A, was evaluated during the reporting period. The updated *Treatment BMP Technology Report, October 2014, 2014 Edition* (CTSW-RT-14-999) is attached to this Annual Report. A draft *Stormwater Monitoring and BMP Development Status Report: Fiscal Year 2013-14 Update* (CTSW-RT-14-312.01.01d) was also completed.

The BMP Development Status Report update is also included as an attachment to this Annual Report (CD attachment). This Report provides an update on the status of stormwater treatment technology studies, source control studies (including erosion control studies), and stormwater quality characterization for the 2013-2014 fiscal year.

Non-Approved BMP Implementation

Caltrans did not implement any non-approved BMPs during the reporting period.

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5 Project Planning and Design

Re-use of Aerially Deposited Lead Contaminated Soils

The Department of Toxic Substances Control (DTSC) regulates activities involving the re-use of soils that contain aerially deposited lead (ADL), ensuring that lead-contaminated soils are not discharged to waters of the U.S. Soil containing hazardous waste levels of lead were reused in accordance with a variance issued by the DTSC (SWMP Section 4.3.4, Re-use of Lead Contaminated Soils). If suitable locations for reuse were unavailable, the excavated soil containing hazardous waste levels of lead was disposed of at Class I landfill facilities. Each Caltrans District notified DTSC and the appropriate Regional Board at each instance invoking the variance and kept records for each variance in a statewide database.

Design Consultation in the Lahontan Region

Caltrans participated in the early project design consultation process for all Lahontan Region projects per Attachment V-Part 3 of the Caltrans NPDES Permit within the Lake Tahoe, Truckee River, East and West Forks Carson River, and Mammoth Creek Hydrologic Units (H.U.). Caltrans solicited RWQCB staff reviews when projects were at the 50 percent design level and collaborated during the remainder of the design development and environmental review process.

Stream Crossing Design Guidelines to Maintain Natural Stream Processes

Caltrans, in coordination with the National Oceanic and Atmospheric Administration National Marine Fisheries Service (NOAA Fisheries), the California Department of Fish and Wildlife (CDFW), and the United States Fish and Wildlife Service, continue to use the “Fish Passage Design for Road Crossings” (Caltrans, August 2009) guidance to ensure conformance with state and federal fish passage standards and regulations. Caltrans also relies upon the Highway Design Manual, Section 800, “Highway Drainage Design”, with its goals of perpetuating natural drainage while considering environmentally sensitive issues, such as fish passage. Neither of these guidance documents was revised within the reporting period.

Design Best Management Practices

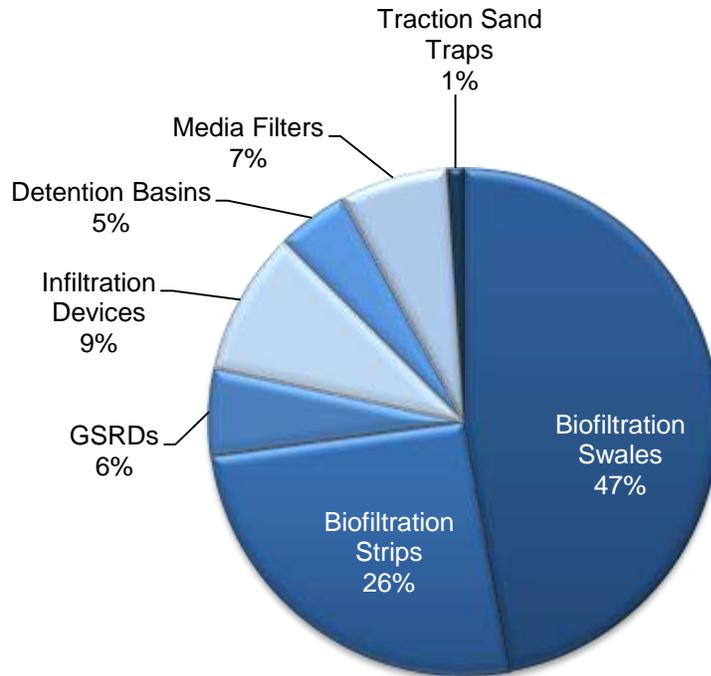
During the reporting period, the Office of Stormwater Management Design (OSWMD) evaluated its program to ensure that it complies with the Caltrans NPDES Permit.

The OSWMD also continued to maintain an interactive [website](#) with information about Caltrans-approved treatment BMPs and design specifications. An animated depiction with narration is provided for each type of treatment BMP to illustrate how it functions.

Treatment BMPs Planned for Projects

Figure 1 below summarizes the percentage of treatment BMP types planned for projects during the Design phase for the reporting period. This information is based on completion end dates documented in the PS&E SWDR. Treatment BMPs are included as appropriate to comply with the Caltrans NPDES Permit project development requirements and to implement TMDL waste load allocations, location specific requirements, and the requirements in the PPDG using the targeted design constituent approach.

Treatment BMP Summary By Device Type



GSRDs – Gross Solids Removal Devices

Figure 1: Treatment BMPs Planned Summary by Device Type

Design Self-Audit Program

The Design Compliance Monitoring Program uses the SWDR as a tool for documenting compliance with the design pollution prevention and treatment BMP requirements of the Caltrans NPDES Permit and Draft SWMP. The SWDR and its checklists are reviewed by District staff to ensure that all BMP types are being considered and appropriately incorporated into Caltrans' projects. This review also ensures stormwater compliance throughout the project planning and design phases. Headquarters Office of Stormwater Management Design then selects representative SWDRs and reviews them as part of a quality improvement process. These reviews are used to determine if improvements are needed in the design guidance and training classes.

In addition, an independent quality assurance/quality control evaluation of SWDRs was conducted, and the, *Evaluation of Storm Water Data Reports for Fiscal Year 2013/2014* ([CTSW-RT-14-314.06.1](#)) prepared. The evaluation was conducted to determine whether the SWDRs prepared during each fiscal year were consistent with the current PPDG, Permit, and 2003 SWMP (July 2012 Revision) requirements. It found that 96% of the 50 SWDRs reviewed during the evaluation that were prepared by or for Caltrans comply with the requirements of the Stormwater Quality Handbooks, PPDG, Permit, and SWMP.

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Implementation of Construction General Permit

For the reporting of stormwater discharges associated with construction activity, the Caltrans NPDES Permit defers to the reporting requirements of the Statewide Construction General Permit (CGP). All construction projects filed Permit Registration Documents with the SWRCB via the Stormwater Multiple Application and Report Tracking System (SMARTS). Full implementation of the CGP occurred in this fiscal year.

The Statewide Construction General Permit (CGP) requires dischargers, including Caltrans, to electronically file Permit Registration Documents (PRDs) with the SWRCB via the Storm Water Multiple Application and Report Tracking System (SMARTS). Caltrans complied with the Caltrans NPDES Permit, the CGP, and the Regional Water Quality Control Board requirements during the fiscal year.

Construction Enforcement Actions Response

Caltrans evaluated its process for addressing enforcement actions statewide. During fiscal year 2013-2014, 4 of the 45 enforcement actions issued for construction activities were resolved, and 34 are pending resolution or are in progress. Caltrans continuously strives to improve its enforcement action tracking procedures, and closely monitors all Districts and projects for enforcement activity. Additional enforcement elements are added to the tracking database each year. Headquarters provides the Districts with a consultant contract to assist them, when needed, for response to enforcement actions.

Construction Self-Audit Compliance Monitoring

The CCEP provides for the DCSWC's evaluation of the contractor's SWPPP or WPCP implementation, a process for evaluating the potential threat to water quality from a project, and rates a site for overall preparedness based on forecast storm events and contractor history. The plan also separates water quality compliance from stormwater contract administration. The system assesses compliance with water quality requirements, evaluates stormwater contract administration, and incorporates quality control, quality assurance, and independent assurance elements. The DCSWC visited projects, reviewed the contractors' SWPPPs and WPCPs, and acted as technical advisor to the Resident Engineers. The Resident Engineers worked with the DCSWCs to ensure that the contractors complied with the applicable requirements.

The CCEP numeric rating system represents the water quality compliance rating, which is an evaluation of BMP adequacy and potential threat to water quality. The numeric compliance scale ranges from 1 representing compliance to 4 representing noncompliance. Stormwater contract administration is represented by an alphabetic rating, which assesses the project's compliance with the permits and the quality of stormwater contract administrative activities in accordance with contract specifications and guidance documents. The alphabetic compliance scale ranges from A for compliance to D for noncompliance. For example, a combined rating of 1A indicates that the construction project implemented construction site BMPs in accordance with the project's SWPPP or WPCP (1 rating), and that there are no project document deficiencies (A rating).

In 2013-2014, the construction project stormwater reviews were conducted utilizing a web-based computer program application, the Construction Project Stormwater Review Application (CPSRA). The CPSRA program application structure is organized by a series of checklists that are used to evaluate the water quality field implementation (Numeric Rating) and the required stormwater contract administration documentation (Alpha Rating). Reviewers enter their observations into the application and the CPSRA summarizes these observations into a report. Based on the responses to the checklists, the program generates an overall alphanumeric rating for the project. The CPSRA stores the general information about each construction site review, the responses to each checklist questions and the alphanumeric rating in a database. For detailed information on the numeric and alphabetic ratings, consult the *Year-End Performance Report, A Summary of Construction Compliance Reviews – July 1, 2013 – June 30, 2014* (CTSW-RT-14-321.04.1) September 2014, included on the CD and in the CCEP.

During fiscal year 2013-2014, 83 reviews were conducted as part of the CCEP. Of these,

- 42 reviews (51%) resulted in a 1 rating (less than 10% inadequate BMPs and less than 30% chance of precipitation within 48 hours);
- 31 reviews (37%) resulted in a 2 rating (between 20% to 50% inadequate BMPs);
- 7 reviews (8%) resulted in a 3 rating (50% inadequate BMPs);
- 3 reviews (4%) resulted in a 4 rating (50% or more of all BMPs are deficient);
- 36 reviews (43%) resulted in an A rating (20% or less of *Standard Specifications* and special provisions are not met);
- 21 reviews (25%) resulted in a B rating (between 20% to 50% of contract specification requirements are not met);
- 16 reviews (19%) resulted in a C rating (between 50% and 80% of contract specification requirements are not met);
- 10 reviews (12%) resulted in a D rating (80% or more of the contract specification requirements are not met); and
- 78% of the BMPs evaluated during the reviews were determined to be adequate.

A detailed description of the rating system for construction projects is described in CCEP.

Construction Best Management Practices

No new BMPs were approved for use on Caltrans projects during the reporting period.

7 Compliance with the Industrial General Permit

Caltrans' stormwater discharges are regulated by the Caltrans NPDES Permit, and it is not typically necessary to apply for coverage under the Industrial General Permit (IGP). However, three areas of Caltrans' Stormwater Program that may involve industrial activities are

- Construction activities administered by Caltrans,
- Caltrans activities subject to the IGP, and
- requirements for lessees of Caltrans property that conduct activities subject to the IGP.

Caltrans contract specifications require the construction Contractor to obtain coverage for applicable general permits, including the Industrial General Permit if warranted.

Caltrans is evaluating the impacts of the new IGP to Caltrans activities and facilities, and will be developing policies and procedures if needed to comply with the requirements. Future Annual Reports will discuss the implementation of the policies and procedures to comply with the IGP.

Caltrans requires lessees to comply with the stormwater program including complying with the IGP, if applicable.

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8 Maintenance Program Activities and Facilities Operations

Illegal Connections/Illicit Discharges

During the reporting period, 10 of 22 illegal connections/illicit discharges (IC/IDs) were resolved and 12 are in the process of being resolved. Unresolved incidents are being researched, improvements are in progress, or further monitoring is required to indicate that the discharge has been eliminated. Detailed information about IC/IDs is provided in Appendix E.

IC/ID and Illegal Dumping Response Plan

The *Illegal Connection, Illicit Discharge (IC/ID) and Illegal Dumping Response Plan* (CTSW-RT-13-999.02) was submitted to the SWRCB in December 2013. The plan describes procedures and BMPs used to protect its MS4 and stormwater quality from potential pollutant loading due to the illicit deposition of solid or liquid materials to Caltrans' right of way.

Vegetation Control

After reviewing the Districts' proposed Vegetation Control Plans for the upcoming fiscal year, Caltrans' Headquarters Roadside Maintenance Office allocates active ingredient for each District. Caltrans assists local agencies with fire suppression (fuel abatement) and in combating invasive and noxious weeds. To prevent the development of herbicide resistance in vegetation, chemical products with slightly different modes of action are used every two to three years, which can result in minor but noticeable fluctuations in active ingredient.

Caltrans evaluated its process to track the violations of herbicide and pesticide applications on a statewide basis during the reporting period. In future Annual Reports, Caltrans will report this information and the corrective actions taken to address the violations.

Herbicide, Pesticide, and Fertilizer Applications

Caltrans' NPDES Permit requires that Caltrans report its chemical use in the Annual Report. This information is located in Appendix F (on the attached CD) and includes monthly chemical usage by type. Appendix E summarizes chemical use during the fiscal year and compared to the previous 11 years. Approximately 146,451 pounds of active ingredient were used to treat an estimated 138,390 acres in Caltrans' Integrated Vegetation Management program during fiscal year 2013-2014. All Districts had a decrease in the use of herbicides during the reporting period, except for Districts 1, 2, and 9. Appendix E lists the reasons for the increases in chemical use.

Chemical Use on Vegetated Treatment BMPs

No chemical use was reported on any vegetated treatment BMP.

Maintenance Self-Audit Compliance Monitoring

Caltrans used a third party (consultant) to review maintenance activities and facilities for compliance with the requirements of SWMP and NPDES permit. The consultant's goal is to inspect a minimum of 10 maintenance activities per district and a minimum of 20% of statewide maintenance facilities per year. Each review consists of a documentation audit and a site inspection. Each facility required inspection at least once within each 5-year period. The Division of Maintenance staff provided support to the consultant and facilitated the inspections. During the reporting period, 292 activities and 152 out of 571 maintenance facilities statewide (26%) were inspected. The statistical information from the reviews is summarized in Appendix E. No significant deficiencies were observed by the consultant during reviews in the reporting period.

The following best management practice (BMP) categories were reviewed for compliance:

- Building and Grounds Maintenance
- Storage of Hazardous Materials (Working Stock)
- Material Storage Control (Hazardous Waste)
- Outdoor Storage of Raw Materials
- Vehicle and Equipment Fueling
- Vehicle and Equipment Cleaning
- Vehicle and Equipment Maintenance and Repair
- Aboveground and Underground Tank Leak and Spill Control

Facility Pollution Prevention Plans

Caltrans is required to develop a Facility Pollution Prevention Plan (FPPP) for each of its maintenance facilities. Each FPPP describes the activities conducted at the facility and the BMPs to reduce or eliminate the discharge of pollutants in stormwater runoff from the facility. FPPPs are updated or revised as needed during the year. All maintenance facilities have FPPPs that are updated or revised as needed. Presently, there are 908 completed FPPPs for maintenance yards, storage and material sites, CHP and BPS stations, rest areas, and equipment shops. However, the number may vary as sites open or close in future operations. An inventory of FPPPs is included in Appendix J on the attached CD.

Erosion Control and Stabilization Activities in Areas Prone to Erosion

District staff is responsible for ensuring that work orders are properly prepared and submitted for major/minor erosion repair activities. The work order defines the limits of the activity. Areas prone to erosion are defined as segments of highway requiring erosion control and stabilization activities for the past three consecutive years.

The Headquarters Division of Maintenance staff conducts a geographic information system (GIS) analysis of the submitted work orders for erosion work. Integrated Maintenance Management System (IMMS) data for three consecutive years is mapped to define the segments of highway where continuous work has been needed. If District staff requests that an area be redlined, then IMMS must have three years of data to back it up and the work orders should be part of the annual Headquarters review.

Slides and slip-outs encountered during routine surveillance and inspections are evaluated for repair with priority going to eroding slopes in Environmentally Sensitive Areas. Recommendations were developed for site-specific remedial measures, from minor grading or seeding to installation of major slope stabilization systems to maintain slope and soil stability. Detailed information about Caltrans' erosion control and stabilization activities performed in areas prone to erosion during the reporting period is provided in Appendix H.

Waste Management Plan

Caltrans prepared the *Waste Management Plan – Waste Management Activities and Best Management Practices* for submittal to the State Board in July 2014. The Waste Management Plan describes Division of Maintenance field crews' activities and BMPs that are used to protect the environment from pollutants within Caltrans right of way. It fulfills the Caltrans NPDES Permit requirement to develop a Waste Management Plan that includes a comprehensive inventory of waste storage, transfer, and disposal sites; the source(s) of waste and the physical and chemical characterization of the waste retained at each site; estimated annual volumes of material; and existing or planned waste management practices for each waste and facility type. Waste characterization need not be conducted on a site-by-site basis but may be evaluated programmatically based upon the highway environment and associated land uses contributing to the sites, including climate and ecoregions.

Landslide Management Plan

Caltrans submitted its *Landslide Management Plan* (CTSW-OT-13-999.02) in October 2013. The plan describes the Division of Maintenance field crew activities and BMPs used to protect stormwater quality from potential

pollutant loading due to landslide (earth, rock or debris), debris flows, rock fall and wildfire events within Caltrans' right of way. Summaries of the activities Caltrans completed during the reporting period to meet these requirements are discussed in the following sections. The backup data for these activities is available in Appendix E and Appendix H.

Enhanced Storm Drain Inspection and Cleaning Activities

The Division of Maintenance implements an Enhanced Annual Storm Drain Inlet Inspection and Cleaning Program in the metropolitan areas of Los Angeles and Ventura (District 7), Orange (District 12), and San Diego (District 11) counties. Detailed information about Caltrans' enhanced storm drain inspection and cleaning activities during the reporting period is provided in Appendix I.

Slope Inspections

Caltrans' Division of Maintenance has an ongoing program in accordance with Caltrans' NPDES Permit Section E.2.h.3)a)iii) and the Draft SWMP to inspect roadside vegetated slopes for erosion. This requirement is led by District Maintenance Stormwater Coordinators who are members of the MSWAT. The inspections are conducted on a five-year cycle. In addition to the SWMP mandated program, the Division of Maintenance conducts a storm patrol and erosion control program. Maintenance Supervisors and delegated staff patrol the state's highway system to inspect for any issues related to safety, facility preservation and erosion control due to storm events.

The Division of Maintenance also investigates public complaints related to stormwater damage. The Division of Maintenance will normally conduct minor storm damage repair on projects in which the cost does not exceed \$1,000 per site or \$15,000 per mile. Major storm damage repair projects exceed these cost levels. Detailed information about slope inspections conducted by District Maintenance Stormwater Coordinators during the fiscal year is available in Appendix H.

Trash and Litter Removal Activities

Caltrans collects trash through several activities that District Maintenance personnel perform on a regular basis. These activities include storm drain maintenance, roadway sweeping, District crew/California Conservation Corps (CCC) trash collection, the Caltrans Parolee Program, and the Adopt-A-Highway Program, and public education emphasizing trash and litter prevention. Table E-16, in Appendix E, shows the amount of trash and litter removed from Caltrans' activities.

The Division of Maintenance has several integrated categories in its activities to reduce and eliminate trash and litter from affecting surface waters.

Storm Drain Maintenance

The Division cleans storm drainage system inlets and culverts of accumulated materials. These activities are conducted manually and with vacuum truck operations.

Road Sweeping

The Division conducts ongoing road sweeping activities with mechanized sweepers to collect and dispose of materials off the roadway surfaces.

District Crew Collection

District Maintenance crews conduct manual cleanup of trash and litter from Caltrans' right of way.

California Department of Corrections and Rehabilitation (CDCR) and California Conservation Corps (CCC) Programs

The Division of Maintenance has partnership programs with the CDCR and the CCC. Parolees and Corps employees provide contracted services to assist in the removal of trash and litter from Caltrans' right of way.

Adopt-A-Highway Program

The Caltrans [Adopt-A-Highway](#) Program provides an avenue for individuals, organizations, or businesses to help maintain sections of roadside for various activities including litter removal within California's State Highway System.

Public Education

The Division of Maintenance helps sponsor the California Statewide Litter Collection, Enforcement and Beautification Day event held in the spring on or around "Earth Day" each year. Caltrans staff volunteers to collect litter and raise public awareness of the issue. Caltrans participates in supporting the California "Keep California Beautiful" campaign with Caltrans' "Don't Trash California" program.

The estimated annual volumes of trash and litter removed for each category by District are summarized in Table E-16 (Appendix E). The litter reduction and elimination protocols established by Caltrans are defined in its [California Department of Transportation Litter Abatement Plan](#) (2007).

Drain Inlets/Culverts Inspected and Cleaned

Caltrans inspected and cleaned over 96,000 drainage system facilities as needed during fiscal year 2013-2014. Detailed information about drain inlets and culverts inspected and cleaned during the fiscal year is provided in Appendices E and I.

9 Non-Departmental Activities

Airspace Leases

As required by the SWMP, this section summarizes progress on the review and revision of existing air space leases each year. Airspace leases are legal documents defining areas within the state highway right-of-way that can safely accommodate privately managed uses, and they outline terms agreed upon at the time of their execution. Table 4 lists the approximate number of leases, including new and renewed leases by District as of June 30, 2014. Only the overall totals are shown, since the Right-of-Way Property Management System does not distinguish between new and renewed leases.

Table 4: Airspace Leases Modified to Include SWMP Requirements 2013-2014

District	Total Number of Leases (New and Existing as of June 30, 2014)	Total Number of Leases with Stormwater Language (New and Renewed as of June 30, 2014)
1	1	0
2	3	2
3	42	13
4	173	137
5	12	1
6	2	1
7	145	111
8	2	2
9	0	0
10	9	2
11	40	21
12	5	2
Total	434	292

There were 434 airspace leases statewide as of June 30, 2014, 292 (67%) of which have Stormwater language. Those with no stormwater language incorporated are long-term leases that were executed before the Stormwater Management Program was established. Caltrans cannot change these leases until they expire, the tenant vacates, a new tenant and lease are established, or the leases are renewed. All renewed and new leases contain the stormwater clause, which did not change during the reporting period.

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10 Non-Stormwater Activities/Discharges

Exempt and Conditionally Exempt Non-Stormwater Discharges

No changes were made to the non-stormwater BMPs used for conditionally exempt discharges during the reporting period.

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Training

Headquarters

No Headquarters Division of Environmental Analysis training was conducted during fiscal year 2013-2014.

Environmental Analysis Division

The Environmental Analysis Division trained approximately 351 personnel, or 38%, of an estimated 918 staff statewide.

Encroachment Permits Office

The Division of Traffic Operations, Encroachment Permits Branch conducted informational sessions with the Districts on the implementation of the new Caltrans NPDES Permit requirements for Non-Departmental projects. The focal point of these sessions was to review the changes to the Encroachment Permit Manual, the Statewide SWMP, and the Annual Report. Headquarters also coordinated on-line training webinars, which were made available to District and Headquarters functional unit staff.

Districts conducted their own informational sessions that focused on roles and responsibilities, proper BMP implementation, Encroachment Permits Manual revisions, and non-compliance reporting. Approximately 156 Caltrans staff members statewide are involved in encroachment permits. About 181 (100%) of them participated in the online and informational training sessions.

Design

The Design Stormwater Program continued to focus on curriculum development during fiscal year 2013-2014. Three training courses were offered to 16 employees, or 3%. The total number of statewide employees in the Design division is approximately 463.

Construction

During the 2013-2014 fiscal year, 22 construction stormwater classes were offered and approximately 1,008 Caltrans Construction personnel, or 47%, were trained in stormwater topics. The total number of statewide employees in the Construction division is approximately 2,153.

Construction Contractor Training

During the reporting period, contractor personnel received training on BMP implementation, non-stormwater management, SWPPP development, soil stabilization, and other stormwater management best practices to comply the Caltrans NPDES Permit, CGP, and Lake Tahoe CGP. Detailed training activities for construction contractors are provided in Appendix L.

Maintenance

The Division of Maintenance has formal stormwater management training sessions for new employees and refresher training for existing staff. Both types of courses are scheduled from one to 15 hours in length. The total number of employees within the Division of Maintenance statewide is approximately 2,480. During this reporting period, 2,480 employees, or 100%, received formal training. In addition to formal training, Division of Maintenance policy is that Supervisors conduct stormwater BMP tailgate meetings a minimum of every 10 working days or when there is a change in the type of work activity. These meetings are to review BMPs prior to conducting roadside maintenance activities. District training totals are summarized in in Appendix L.

Landscape Architecture Program

The [Landscape Architecture Program](#) (LAP) continued to support Caltrans Landscape Architects in obtaining their Certified Professional in Erosion and Sediment Control (CPESC) certification.

During the reporting period, the LAP:

- Trained Caltrans Contractors on project issues that they find most difficult to bid or build. Topics included effective source control techniques, water conservation, and establishing erosion control materials.
- Provided new statewide training on Selecting Effective Erosion Control Treatments at the 2014 Landscape Architecture Academy. This class taught how to analyze a project site and select the most effective source control and erosion control tools. Lessons learned from recent projects were used to highlight universally effective methods to control erosion.
- Provided new statewide training on Erosion Control Documentation at the 2014 Landscape Architecture Academy. This class taught how to document erosion control design decisions and specify erosion control materials using the 2010 Standard Specifications and Erosion Control Plans and Tables.
- Provided new statewide training at the 2014 Landscape Architecture Academy to support implementation of the Model Water Efficient Landscape Ordinance and improve water use efficiency in highway planting design.
- Provided training on the basics of Highway Irrigation Design, which is related to the Model Water Efficient Landscape Ordinance and Innovative Irrigation Technology courses. It describes the main components, best practices of irrigation design, and the necessary calculations required to design an irrigation system.
- Provided training on Lessons Learned from Contractor Meetings that included the challenges that landscape and erosion control contractors face on Caltrans projects. The training discusses design techniques that reduce Contract Change Orders, potential claims during construction, and information that will enhance project constructability and performance.
- Provided standards, guidance tools and support for the District Landscape Architects in the development of permanent erosion control plans specifications and estimates on highway construction projects.
- Updated the [Erosion Control Toolbox](#), a one-stop reference to provide Caltrans Landscape Architects with information necessary to design successful, effective and cost efficient erosion control treatments.

New Training Courses (Statewide)

Caltrans developed and provided training to staff on Hydromodification and Rapid Assessment Stream Stability during the fourth quarter of the fiscal year.

12 Public Education and Outreach

Public Education Activities

Caltrans' public education program encompasses the "Don't Trash California" Campaign, [Adopt-A-Highway](#), and partnerships with local organizations. The primary goal of the "Don't Trash California" campaign is to raise public awareness of stormwater pollution and its prevention on California's freeways and highways. During the fiscal year, the "Don't Trash California" website was compromised and subsequently inactivated. A new contract for developing and implementing the public education program was under development during the fiscal year. The new contract is expected to be executed during the next reporting period.

Caltrans co-sponsors CASQA's Water Quality NewsFlash, a bi-weekly, electronically distributed update of stormwater and related news for CASQA members, as a public education and outreach partnership. The NewsFlash provides the stormwater community with timely and relevant water quality regulatory information from the federal, state, and regional levels.

Adopt-A-Highway Statewide Program

[Adopt-A-Highway](#) is a cooperative program between organizations with volunteers to collect trash along the highways, and be recognized for their contribution to keeping the environment and highways clean. The statewide program's accomplishments during the fiscal year include 19,129 cubic yards of material collected by 3,020 groups along 9,938 miles of adopted highways.

Public Education Efforts by District

Highlights of achievements by the Districts' public education programs during the fiscal year include the following:

- **District 1** – District Maintenance Crews participated in "Coastal Cleanup Week."
- **District 2** – The District's Adopt-A-Highway program participants removed 423 cubic yards of trash during the fiscal year.
- **District 3** – During the annual media campaign for Tahoe Roads stormwater outreach, the District purchased 1,843 TV spots and 649 radio spots on five radio stations, and Adopt-A-Highway groups participated in "California Cleanup Day," the "Great American Cleanup – California," and the "[Great Sierra River Cleanup 2013](#)."
- **District 4** – District 4 created and submitted an Adopt-A-Highway Litter Abatement, reinstated the Volunteer of the Year and Supervisor of the Year awards, and upgraded the Adopt-A-Highway website to include monthly promotional program updates, litter abatement activities, participation group highlights, and testimonials. Activity resulted in 1,326 litter-cleaning events and over 3,688 shoulder miles cleaned.
- **District 5** – The District donated "Don't Trash California" educational materials for the "2013 Creek Cleanup Days and WaterFest" public outreach events.
- **District 6** – The District distributed "Don't Trash California" educational materials at and participated in the "Oktoberfest: Rock Your Career" event with Willow International Community College, and other events, such as "Kids Day," Pershing School "Ag Days" and "Career Day."
- **District 7** – The District's Adopt-A-Highway program participants removed 2,244 cubic yards of trash during the fiscal year.
- **District 8** – The District hosted "Bring Your Child to Work Day" and presented the "Plant a Seed, Grow a Future" interactive presentation to the participants.
- **District 9** – The District continued its Safety Roadside Rest Area (SRRA) "Don't Trash California" activities with its "How to Prevent Water Pollution" poster information campaign.

- **District 10** – The District’s Adopt-A-Highway program participants removed 1,001 cubic yards of trash during the fiscal year.
- **District 11** – The District participated in the Annual California Cleanup Day/Caltrans Adopt-A-Highway Program.
- **District 12** – The District hosted an activity for the 2014 “Children's Water Education Festival” at UC Irvine and Earth Day event, where it distributed “Don’t Trash California” educational materials and information.

13 Region-Specific Activities

TMDL Requirements

On May 20, 2014, the State Board released an amendment to the Caltrans NPDES Permit focusing on TMDL requirements. The revised sections included the Order, Fact Sheet, and Attachments IV, V, VIII, and IX. In response to comments received, the State Board released a revised amendment on May 9, 2014, followed by a change sheet and subsequent adoption hearing on May 20, 2014, during which all revisions were approved. The Caltrans NPDES Permit revisions are pending approval at the Office of Administrative Law (OAL).

In the interim, the Draft Reach Prioritization for Pollutant Categories was under development. A draft version will be complete in July 2014 and the final Reach Prioritization is due to the State Board on October 1, 2014. Caltrans is developing an interagency agreement with the State Board to establish a Cooperative Grant Program administered by the State Board. This interagency agreement will allow Caltrans to transfer funding via the State Board to local agencies in support of TMDL activities that will assist Caltrans in meeting its TMDL obligations.

Caltrans monitored certain TMDL locations throughout the state to comply with the requirement to monitor water quality at a minimum of 100 Tier 1 sites (see Section 3). Monitoring details and results are included in the Monitoring Results Report due on October 1, 2014. Once the State Board formally approves the amendment to the Caltrans NPDES Permit, and Caltrans' proposed list of Tier 1 and Tier 2 monitoring sites, Caltrans will develop plans for future TMDL monitoring efforts.

North Coast Region

Sources of Sediment

Caltrans quantified and prepared an inventory of excess sources of sediment and threatened discharges in the North Coast Region. The inventory was prepared and will be submitted to the North Coast Regional Board on September 19, 2014.

Riparian Vegetation Removal

The removal of riparian vegetation may result in a threatened discharge or cause an exceedance of water quality objectives. Caltrans protected and restored riparian vegetation on a project-by-project basis in the North Coast Region and where feasible. If vegetation removal required a permit from the Regional Board, a permit was obtained and its requirements were implemented.

San Francisco Bay Region

Trash Load Reduction Reporting

Caltrans worked on developing a Trash Load Reduction work plan and schedule for Regional Board submittal in September 2014. This work plan identifies high trash generating areas, prioritizes areas for trash reduction measures, identifies tasks to address trash reduction in one year, within the Caltrans NPDES Permit cycle (2018), and long term (post 2018). The Plan also identifies possible hot spots and solutions for reduction of trash at these hot spots. It was prepared during the reporting period and will be submitted to the Regional Board/State Board for their approval before implementation commences.

Stormwater Pump Stations

Caltrans has started a five-year program to inspect and monitor pump stations in the San Francisco Bay Region pursuant to Caltrans NPDES Permit, Attachment V (Region Specific Requirements). Caltrans has selected 15 of the 61 pump stations within the Region to inspect and collect dissolved oxygen (DO) data. Pump stations with DO levels at or below 3 milligrams per liter (3 mg/L) will be identified and potential corrective actions considered,

such as continuous pumping at a low flow rate, aeration, or other appropriate methods to maintain DO discharge concentrations above 3 mg/L.

The 15 pump stations were selected based on their geographic location, as well as the potential sensitivity of receiving body of water to which each pump station discharges. These stations were visited for site reconnaissance and evaluation of monitoring suitability. An additional three pump stations were visited that are to serve as alternates to ensure that at least 15 pump stations are monitored during this monitoring season. The 18 pump stations are all located within District 4. Monitoring will be conducted during the 2014 dry season (August) and the results will be reported in next year's Annual Report. Table 5 lists selected pump stations for monitoring this fiscal year 2014.

Table 5: List of Pump Stations to be monitored in 2014

Site Name	Site Verification Status	Location	Receiving Water Body
North First Street OC	Suitable	04-SCL-0237-6.87	Alviso Slough
Silver Spring	Suitable	04-ALA-0084-16.94	Alameda Creek
South Niles UP	Suitable	04-ALA-0238-3.41	Alameda Creek
Niles Junction UP	Suitable	04-ALA-0084-10.65	Alameda Creek
Burnett Avenue OC	Suitable	04-SCL-0101-R18.68	Coyote Creek
Cochrane Road OC	Suitable	04-SCL-0101-R17.89	Coyote Creek
Winchester (85)	Suitable	04-SCL-0085-R11.05	Los Gatos Creek
Bird Avenue OC	Suitable	04-SCL-0280-R2.90	Los Gatos Creek
Highway 85/17	Suitable	04-SCL-0085-10.4	Los Gatos Creek
Saratoga Avenue (85)	Suitable	04-SCL-0085-R13.70	Saratoga Creek
Coleman Avenue	Suitable	04-SCL-0880-2.70	Guadalupe River
Taylor Street Overcrossing	Suitable	04-SCL-0087-10.07	Guadalupe River
Auzerais Avenue	Suitable	04-SCL-0087-5.21	Guadalupe River
82/880 SEP	Suitable	04-SCL-0880-2.11	Guadalupe River
Lake Blvd OC	Suitable	04-ALA-0084-R5.42	Flood Control Channel

Lahontan Region

Caltrans completed the Natural Environment as Treatment (NEAT) study in 2009 and submitted a report to the Lahontan Region. Projects developed within the NEAT study area during the reporting period were designed and constructed based on the priority areas identified by the study.

Caltrans developed the Tahoe Pollutant Load Reduction Plan (PLRP) that is due for submittal during the next fiscal year.

ASBS Compliance Plan

Caltrans submitted a draft ASBS Compliance Plan to the State Board on September 20, 2013. At Caltrans' request (letter, June 25, 2013), the State extended the final ASBS Compliance Plan due date to September 2015.

14 Overall Program Effectiveness Evaluation

Caltrans is in the process of revising the program, which will include the following components:

- a) Evaluation of program effectiveness in protecting and restoring water quality and beneficial uses.
- b) Identification of quantifiable effectiveness measurements for each BMP, including measurements that link BMP implementation with improvement of water quality and beneficial use conditions.
- c) Evaluation of program effectiveness in achieving Caltrans NPDES Permit requirements and Measurable Objectives. Since the Measurable Objectives were in development during the reporting period and will be submitted as part of the Draft SWMP in July 2014, they are not directly reported on in this Annual Report. However, they will be reported on in future Annual Reports.
- d) Identification of how Caltrans will propose SWMP revisions to optimize BMP effectiveness when BMPs or programs are found ineffective or need improvement. This fourth component identifies how Caltrans will use the results of the Effectiveness Evaluation to modify and improve the Stormwater Program.

Program effectiveness evaluation reporting will be provided in future Annual Reports pending approval of the SWMP.

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15 Measurable Objectives

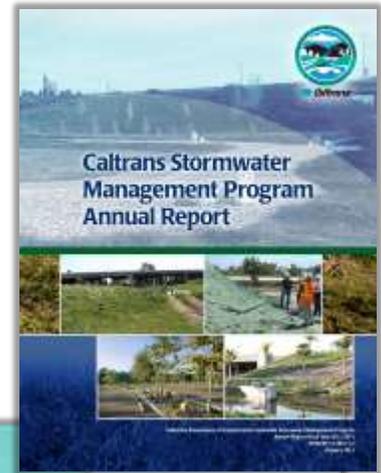
Caltrans developed its Draft 2014 SWMP during the reporting period to comply with the Caltrans NPDES Permit requirements, including Measurable Objectives. Upon approval of the Draft 2014 SWMP by the State Board, Caltrans will proceed with implementing the necessary tasks and activities to achieve the Measurable Objectives. In the future, Caltrans will report on the status of the Measurable Objectives during each reporting period in this section.

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Annual Report

On October 1, 2013, Caltrans submitted the Annual Report for the 2012-2013 reporting period. It addressed the reporting requirements for the previous (1999) Caltrans NPDES Permit and current (2003) SWMP, since the latest (2012) Caltrans NPDES Permit was not effective until July 1, 2013.

This 2013-2014 Annual Report was prepared to meet the Caltrans NPDES Permit reporting requirements. Table 1 briefly summarizes the annual reporting requirements and the Annual Report section where they are discussed. The Annual Report, and its corresponding appendices and attachments (on the attached CD), describes the activities completed by Caltrans and contains the supporting data to meet the annual reporting requirements.



District Work Plans

In April 2013, the Districts submitted District Work Plans (DWPs) describing the activities for the reporting period. During fiscal year 2013-2014, the Districts completed and worked on the activities they had planned for the fiscal year. See Appendix M on the CD for a summary of DWP activities.

The DWPs, published in October 2013, summarize the activities that each of the 12 Caltrans Districts plan to perform during the next reporting period (fiscal year 2014-2015) to comply with the Caltrans NPDES Permit and the Draft 2014 SWMP.



Total Maximum Daily Load Status Review Report

Caltrans participated with local and state agencies on specific TMDL elements in the nine RWQCB jurisdictions. Its participation included conducting stakeholder coordination meetings and workshops, developing and implementing monitoring programs, implementing BMPs, and developing and implementing the TMDL Implementation Plan.

On February 11, 2014, the State Board released a permit amendment that included revisions to the Caltrans NPDES Permit, Fact Sheet, and Attachments IV, V, VIII, and IX. The revisions primarily addressed the TMDL requirements and ways to address this program element. A subsequent set of revisions was released prior to the May 20, 2014 adoption hearing. All revisions were adopted at that hearing, and Caltrans began analyzing the revisions to determine its implementation strategy. During the next reporting period, Caltrans will submit the required deliverables and prepare their plans to address TMDLs.

Non-Approved BMP Implementation

Installation of non-approved BMPs did not occur in the Districts during the reporting period. Caltrans promotes the development and deployment of approved BMPs that include modifications allowing the BMPs better feasibility and effectiveness for their installed locations. At this time, there are no monitoring results for the modified BMPs.

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