

# CALIFORNIA DEPARTMENT OF TRANSPORTATION ANNUAL REPORT

CTSW-RT-03-016



California Department of Transportation  
Division of Environmental Analysis  
1120 N Street  
Sacramento, California 95814

April 2003

**State of California Department of Transportation  
1120 N Street  
Sacramento, CA 95814**

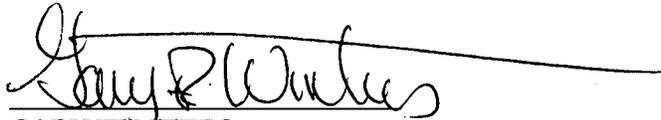
**CERTIFICATION**

**Annual Report**

**April 2003**

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I certify under penalty of law that this document 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 true, accurate, and complete to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of knowing violations. [40 CFR 122.22(d)]



**GARY WINTERS**

Chief, Division of Environmental Analysis

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### **ATTACHMENTS** (provided under separate cover)

Regional Work Plans

Alternative Highway Drainage Design Report

Year-End Performance Report April 2002: A Summary of Storm Water Task Force  
Construction Inspections

New Technology Report

Storm Water Treatment Technology Research Status Report

Storm Water Monitoring Program: Annual Research Summary Report FY 2001-2002

Storm Water Monitoring and Research Program: Annual Data Summary Report FY 2001-2002

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ADL	aerially deposited lead
AGC	Associated General Contractors
AMACRP	Annual Maintenance Activity Compliance Review Plan
AMFCRP	Annual Maintenance Facilities Compliance Review Plan
BASMAA	Bay Area Storm Water Management Agencies Association
BCP	budget change proposal
BMP	best management practice
CCO	construction change order
CDS	continuous deflection separator
CEQA	California Environmental Quality Act
CHP	California Highway Patrol
CPD	Construction Program Directive
CRMP	Coordinated Resource Management Plan
CSWPPP	Conceptual Storm Water Pollution Prevention Plan
CSWQTF	California Storm Water Quality Task Force
CTC	California Transportation Commission
CTR	California Toxics Rule
CREEC	California Regional Environmental Education Community
CWEF	Children's Water Education Festival
D11	District 11
Department	California Department of Transportation
DICE	drain inlet cleaning efficacy
DOT	U.S. Department of Transportation
EBMUD	East Bay Municipal Utility District
ECPS	Erosion Control Pilot Study
EIC	Employee Involvement Committee
EIP	Environmental Improvement Program
ESA	Endangered Species Act
EUCA	Engineering and Utility Contractors Association
FMFCD	Fresno Metropolitan Flood Control District
FPPP	facility pollution prevention plan
FY	fiscal year
GIS	geographical information system
GSRD	gross solids removal device
HAZWOPER	Hazardous Waste Operations and Emergency Response Standard
HQ	headquarters
IACC	Interagency Coordinating Committee

IC	illicit connection
ID	illegal discharge
IGR	Inter Government Review
KAB	Keep America Beautiful
lbs	pounds
MAPP	maintenance activity pollution prevention plan
MCSTOPPP	Marin County Stormwater Pollution Prevention Plan
MCTT	multi-chambered treatment trains
MISST	Maintenance Inspection Slope Stabilization Team
MS4	Municipal Separate Storm Water System
NEPA	National Environmental Policy Act
NPDES	National Pollutant Discharge Elimination System
NR	North Region
PAC	Public Awareness Campaign
PCR	polymerase chain reaction
PD	project design
PDT	Project Development Team
PELMS	Public Education Litter Monitoring Study
PELS	Public Education Litter Study
PERS	Public Education Research Study
PFRD	Public Facilities and Resource Department
PIP	Public Information Program
PS&E	plans, specifications, and estimates
PSR	project summary report
PPDG	project planning and design guide
PY	personnel year
QA	quality assurance
QC	quality control
RCTC	Riverside County Transportation Commission
RWP	regional work plan
RWQCB	Regional Water Quality Control Board
SANDAG	San Diego Association of Governments
SCAG	Southern California Association of Governments
SCCA	Southern California Contractors Association
SFP	storm water focal person
SHOPP	State Highway Operational Protection Program
SSP	standard special provision
SUSMP	Standard Urban Storm Water Mitigation Plan

SW	storm water
SWAT	storm water advisory team
SWDR	Storm Water Data Report
SWIT	storm water implementation team
SWMP	Statewide Storm Water Management Plan
SWRCB	State Water Resources Control Board
SWPPP	Storm Water Pollution Prevention Plan
SWTF	Storm Water Task Force
TAC	Technical Advisory Committee
TDS	total dissolved solids
TIE	toxicity identification evaluation
TOC	total organic carbon
TMDL	total maximum daily loading
TRPA	Tahoe Regional Planning Agency
TSS	total suspended solids
U.S. EPA	U.S. Environmental Protection Agency
UST	underground storage tank
WPCP	Water Pollution Control Program
>	greater than

## OVERVIEW OF ANNUAL REPORT

Storm water runoff from the California Department of Transportation's (Department) highways, roadsides, rest areas, maintenance yards, toll plazas, inspection stations and park and ride lots is a potential source of pollutants to the surface and ground waters of the State. This Annual Report describes the program implemented by the Department to protect water quality while fulfilling its mission to improve mobility across California. Strategies to control pollutants vary due to the diversity of geographic, climatic, population and regulatory conditions throughout the state. At the heart of the Department's strategy is the control of sediment from the erosion of slopes and from earth disturbance during construction and maintenance. This Annual Report describes measures implemented by the Department during the planning, design, construction, and maintenance of highway facilities throughout California.

The Annual Report was developed to comply with the reporting requirements described in the Statewide National Pollutant Discharge Elimination System (NPDES) Storm Water Permit (Permit) (Order No. 99-06-DWQ) and the Statewide Storm Water Management Plan (SWMP). The Permit was adopted by the California State Water Resources Control Board (SWRCB) on July 15, 1999, and the SWMP was approved on May 17, 2001.

This Annual Report covers the reporting period of July 1, 2001, through June 30, 2002, for ongoing SWMP and Permit requirements.

Figure ES-1 shows the Department Districts and Regional Water Quality Control Board locations.

## PROJECT DELIVERY STORM WATER MANAGEMENT PROGRAM

Project Delivery includes the Department's Design and Construction Programs.

The Office of Storm Water Management–Design provides general guidance to the Design Divisions in the Districts on the implementation of water quality management practices, assesses District incorporation of storm water quality management features into facility designs, and assists the Water Quality Program in the preparation of the Annual Report. The Office of Storm Water Management–Design coordinated preparation of the Project Planning Design Guide (PPDG) during the reporting period. The PPDG describes temporary construction, design pollution prevention, and treatment best management practices (BMPs) and provides designers with guidance for BMP implementation. Approximately 1,300 new construction and major reconstruction projects are currently in the planning and design phases. These projects vary in nature from new freeway sections to lane widenings, lane additions, or major reconstruction required to bring highways up to current design standards. BMPs are incorporated into project designs as appropriate using the siting and design criteria presented in the SWMP, the Storm Water Quality Practice Guidelines, and the PPDG.

The Construction Division continued to develop and implement training courses on construction site BMPs. Program updates included updates to standard special provisions (SSPs) and work plans, change order guidelines to comply with the new sampling and analysis requirements, and coordination with the environmental branch's erosion control research efforts. Specific efforts included a new BMP field guide, the Dewatering Manual, a new District Construction Storm Water Coordinator Manual, and guidance material for project-specific contractor storm water training.

## **MAINTENANCE STORM WATER MANAGEMENT PROGRAM**

Maintenance and the SWRCB concluded a series of meetings that have resulted in a significantly expanded program of maintenance BMPs. The Maintenance Inspection/Slope Stabilization Team (MISST) initiated a new inspection program to identify and assess erodible slopes throughout the State. Both facility and activity compliance monitoring programs were developed during the reporting period.

## **TRAINING**

The Department has developed training programs for Planning and Design, Construction, and Maintenance to provide staff with the appropriate guidance to properly perform their duties. The Office of Storm Water Management-Design developed an updated PPDG course covering design pollution prevention and treatment BMPs. Construction has updated its storm water training program and trained approximately 2,400 employees during the reporting period. Construction has also coordinated with the Associated General Contractors of California and Southern California Contractors Association, Inc. to provide outreach training to the construction contractors working on California's highway facilities. The Maintenance Division has received instruction in storm water, hazardous waste, and hazardous materials compliance requirements through the course titled Hazmat Storm Water 2000–2002. In addition, the Maintenance Division has been presented with a summary of SWMP maintenance requirements through a handout titled Caltrans Statewide SWMP Maintenance Handout and a video for supervisors on the Department's Storm Water Program.

## **PUBLIC EDUCATION**

The Department entered the second year of its public education research study to determine the effectiveness of public education in reducing the amount of litter discharged from the Department's freeway and highway storm drains in the Fresno Metropolitan Area (District 6). The study is designed to develop the strategies and methods needed to increase public awareness of the environmental impacts of littering on public property and highways. This study will identify the best methods for educating the public so that the Department can develop an effective statewide program. In September 2001 the Caltrans Plan for the Development of the Storm Water Public Education Program was approved by the State Water Resources Board.

## RESEARCH

The Department has implemented a monitoring and research program to provide information on storm water pollution, evaluate existing and potential BMPs and meet the monitoring and assessment requirements of the SWMP and Permit. The four main areas of focus for the research program are monitoring and water quality, watershed planning, erosion control, and storm water treatment technology.

More detailed information regarding the Department's treatment research activities is provided in the Storm Water Treatment Technology Research Status Report, April 2003 and the New Technology Report, April 2003, both of which are attached to this report. In addition, more detailed information regarding the Monitoring and Water Quality Research, Erosion Control Research and the Watershed Planning activities is provided in the Storm Water Monitoring Program: Annual Research Summary Report FY 2001–2002 (January 2003), also attached to this report. Storm water analytical data collected during the 2001/2002 wet season are provided in the Storm Water Monitoring Program and Research: Annual Data Summary Report FY 2001–2002 (January 2003).

## PROGRAM EVALUATION

The Department continually evaluates the effectiveness of SWMP implementation. The Construction Compliance Monitoring Program was first implemented in 1997 and provides an annual evaluation of the Department's construction practices. The Maintenance Compliance Monitoring Program was redesigned during the reporting period to address new maintenance BMPs that have been implemented by the Department. This new program will be implemented during the next reporting period.

The Office of Storm Water Management–Design developed a new Design Compliance Monitoring Program and is implementing it through the use of the new PPDG. Designers will begin to track the required information during the next reporting period.

## REPORTING

Various documents included in the Department's reporting process are described in this Annual Report in addition to summaries of the District's Regional Work Plan activities during the previous reporting period. All Districts are meeting their Regional Work Plan commitments.

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Figure ES-1  
Department of Transportation District Boundaries and SWRCB Regions

**INTRODUCTION**

This Annual Report discusses the California Department of Transportation's (Department) use of resources to control pollutants in runoff to protect the public's interest in the environment while maintaining travel safety. Due to the diversity of geographic, climatic, population and regulatory conditions, the strategies used to control pollutants from highways, rest areas, maintenance yards, toll plazas, inspection stations and park and ride lots vary throughout the state. At the heart of the Department's strategy is the control of sediment from erodible slopes or earth disturbance during construction and maintenance activities. This Annual Report describes specific measures the Department has taken to implement the strategies included in the Caltrans Statewide Storm Water Management Plan (SWMP) to control pollutants during the planning, design, construction and maintenance of our projects and to monitor the results of those efforts.

The Annual Report was developed to comply with the reporting requirements described in the Department's Statewide National Pollutant Discharge Elimination System (NPDES) Storm Water Permit (Order No. 99-06-DWQ) (Permit) and the SWMP. The Permit was adopted by the California State Water Resources Control Board (SWRCB) on July 15, 1999. The SWMP was approved by the SWRCB on May 17, 2001, with the most recent update provided to the SWRCB on April 1, 2002.

The format for the Department's Annual Report was developed cooperatively by representatives from the Department, the SWRCB and the nine Regional Water Quality Control Boards (RWQCBs). The information provided in this report responds to requirements specified in the Permit and SWMP.

**ANNUAL REPORT OBJECTIVES**

The Annual Report serves as an evaluation of the Department's statewide storm water program, including operations in highway planning, design, construction and maintenance. It provides information regarding the development and implementation of storm water pollution prevention activities conducted statewide by the Department and an evaluation and assessment of the appropriateness and effectiveness of all parts of the Department's storm water program, including implementation of best management practices (BMPs).

The SWMP identifies various action items with associated deadlines for implementation and reporting of storm water program activities. This Annual Report addresses progress on the SWMP action items, including updates on the status of research efforts and the development of new programs that are required by the SWMP. Table AR1-1 summarizes the SWMP requirements that apply to the Annual Report and indicates where they are addressed in the Annual Report. Several new efforts required by the SWMP are being phased in, but may not be complete for a few years. Subsequent Annual Reports will contain more information about the development, implementation and assessment of these new programs.

TABLE AR1-1: ANNUAL REPORT REQUIREMENTS

SWMP SECTION	REQUIREMENT	ANNUAL REPORT SECTION
1.4	Provide copies of new guidance materials	None identified
2.2.10	Provide a summary of the review and revision of existing air space leases	See Section 2, Encroachment Permits and Third-Party Activities
3.3.2.1	Report progress on research of potential new BMPs not currently used by the Department	See Section 3, BMP Research and Storm Water Treatment Technology Research Status Report
4.3.1	Report feedback from the implementation of innovative design measures	See Section 4, Incorporation of Design BMPs into Projects
4.3.2	Submit progress reports and a final technical report on alternative highway and storm drainage design standards	See Section 4, Alternative Highway and Storm Drainage Standards
4.4.1	Evaluate the applicability of project categories B, C, and D	See Section 4, New Construction and Major Reconstruction Projects
4.4.1, 4.4.2	Summarize the new construction, major reconstruction and high priority retrofit projects implemented during the reporting period	See Section 4, Retrofit Opportunities
4.5	Report information from the use of innovative measures in Construction	See Section 4, Construction Site BMPs
5.3	Report information from the use of innovative measures in Maintenance	No reportable items
5.3.4	Summarize the Department's chemical use report forms to demonstrate the quantity of herbicides used during the previous reporting period	See Section 5, E Family (Landscaping)
5.3.4	Provide a summary of the roadside vegetated slope inspections conducted by the District and a summary of the findings and actions taken as a result of the inspections	See Section 5, E Family (Landscaping)
5.5.1	Report chemicals used for vegetative control measures on vegetated treatment BMPs	See Section 5, E Family (Landscaping)
6.2	Evaluate the training provided to the Department's employees and contractors and assess training program effectiveness	See Section 6, Employee Training Program
6.3.4	Provide a summary of the training courses conducted during the reporting period	See Section 6, Employee Training Program
6.3.4	Evaluate and assess the effectiveness of the training program and provide any recommendations to revise the training	See Section 6, Employee Training Program
6.4.2	Provide results of public outreach investigations conducted and opportunities pursued during the reporting period	See Section 6, Public Education Program

TABLE AR1-1: ANNUAL REPORT REQUIREMENTS (CONTINUED)

SWMP SECTION	REQUIREMENT	ANNUAL REPORT SECTION
6.4.3	Provide a list of the informational brochures developed and distributed	See Section 6, Public Education Program
6.4.6	Report the progress of the existing storm drain stenciling program	See Section 6, Storm Drain Stenciling
8.2	Report on use of assessment tools and measurable goals in annual reporting	See Section 8.
8.3.1	Incorporate SWAT meeting feedback into SWMP implementation	See Section 2, Storm Water Advisory Teams
8.4.1.5	Provide a summary of the performance inspection reports generated by the audits	See Section 8, Construction Compliance Monitoring
8.4.2.5	Provide inspection cycle performance reporting for maintenance activities and facilities	See Section 8, Maintenance Compliance Monitoring
8.4.3.1, 8.4.3.6	Summarize Design Compliance Monitoring activities	See Section 8, Design Compliance Monitoring
8.5.2	Provide feedback from the Districts on storm water program evaluation	See Section 8, Feedback and Program Improvement
9.2	Incorporate reports from the Monitoring and Research Program and the Program Evaluation efforts	See New Technology Report, Storm Water Treatment Technology Research Status Report, Year-End Performance Report March 2003, Storm Water Monitoring Program: Annual Summary Report FY 2001-2002, Storm Water Monitoring and Research Program: Annual Data Summary Report FY 2001-2002
9.2.2	Provide a copy of Non-Storm Water Report (Provision B.9 of the Permit)	See Section 9, Non-Storm Water Report
9.2.2	Describe and justify revisions to BMP programs for currently permitted non-storm water discharges to be implemented in the coming year and any proposed additional non-storm water discharges and associated BMPs to be permitted	See Section 3, Evaluation of Candidate BMPs
9.2.3	Submit the revised SWMP and documentation that describes and justifies the proposed SWMP changes	No changes proposed this year
9.2.4	Provide copy of Regional Work Plans (Provision E.2)	See Regional Work Plans
9.2.5	Submit copy of the BMP Selection Report (Provision F.3.f)	No update this year

**TABLE AR1-1: ANNUAL REPORT REQUIREMENTS (CONTINUED)**

<b>SWMP SECTION</b>	<b>REQUIREMENT</b>	<b>ANNUAL REPORT SECTION</b>
9.2.5	Describe and justify BMP changes or additions	See Section 3, Evaluation of Candidate BMPs
9.2.6	Submit New Technologies Report as an attachment (Provision F.3.g)	See New Technology Report
9.2.7	Submit Municipal Coordination Plan (Provision G.1.b)	See Section 9, Municipal Coordination Program Report
9.2.7	Describe and summarize the activities conducted throughout the Districts and Headquarters to implement the Municipal Coordination Plan	See Section 9, Municipal Coordination Program Report
9.2.8	Provide an Analysis of the Adequacy of the Legal Authority and documentation of specific problems encountered while implementing the storm water program that develop as a result of legal constraints (Provision G.2.b)	See Section 9, Analysis of Legal Authority
9.2.9	Provide Fiscal Analysis (Provision G.3.b) and provide fiscal constraints encountered in implementing the storm water program	Not applicable to the fourth year report
9.2.10	Submit report on the IC/ID Program (Provision I2.b(4))	See Section 9, IC/ID Program
9.2.11	Submit Public Education Program Progress Report (Provision J.3.c)	See Section 6, Public Education Program
9.3, 10.2.1	Submit De-Icer Report for the Tahoe Basin (Provision L.10.b)	See Section 9, De-Icer Report

## Reporting Period

The reporting period for this Annual Report is July 1, 2001, to June 30, 2002 (fiscal year 2002).

## Attachments

This Annual Report includes the following supporting documents required in the Permit or the SWMP:

- Regional Work Plans;
- Alternative Highway Drainage Design Report;
- Year-End Performance Report March 2003: A Summary of Storm Water Task Force Construction Inspections;
- New Technology Report;
- Storm Water Treatment Technology Research Status Report;
- Storm Water Monitoring Program: Annual Research Summary Report FY 2001–2002; and
- Storm Water Monitoring and Research Program: Annual Data Summary Report FY 2001–2002.

The following documents may be accessed on the Department Storm Water Management Program website <http://www.dot.ca.gov/hq/env/stormwater/index.htm> under “Recent Reports:”

- Caltrans Public Education Litter Monitoring Study CTSW-RT-02-021;
- Caltrans Statewide Stormwater Runoff Characterization Study CTSW-02-022;
- Management of Pathogens Associated with Storm Drain Discharge CTSW-RT-02-025;
- Caltrans Hydraulic Application Study 2002 CTSW-RT-02-035;
- Herbicide Effects on Fish Reproduction CTSW-RT-02-039;
- North Coast River Loading Study–Road Crossing on Small Streams Volumes 1, 2, and 3 CTSW-RT-02-040;
- Rainfall Simulation: Evaluating Hydroseeding and Plug Planting Techniques for Erosion Control and Improved Water Quality CTSW-RT-02-052;
- Sampling and Analysis Plan–Caltrans Statewide Stormwater Runoff Characterization Study CTSW-RT-02-063; and
- Caltrans Construction Sites Runoff Characterization Study–Monitoring Season 2001-2002 CTSW-RT-02-055.

## STORM WATER REGULATIONS THAT APPLY TO THE DEPARTMENT [SWMP Section 1.2]

The regulatory requirements that apply to the Department's storm water pollution prevention program are described in Section 1 of the SWMP. No significant changes in regulatory requirements occurred during the reporting period.

### OVERVIEW

Section 2 of the Annual Report corresponds to Section 2 of the SWMP which describes the organization of the Department's storm water pollution prevention program. This section of the Annual Report discusses the activities of the storm water advisory teams (SWATs), and the external coordination associated with focused elements of the storm water management program (including third-party activities through encroachment permits and cooperative agreements, and coordination with municipal storm water permittees). A review of the adequacy of the Department's legal authority to implement the storm water program has also been included. Finally, this section summarizes coordination with the RWQCBs.

### STORM WATER MANAGEMENT RESPONSIBILITIES WITHIN THE DEPARTMENT [SWMP Section 2.2]

No changes in management responsibilities were made during the reporting period.

### Storm Water Advisory Teams (SWATs) [SWMP Section 2.2.7]

The SWATs play a key role in developing procedures and guidance for implementing the SWMP. They also play an important role in disseminating new program information to the Districts. One of their most important functions is the review of new BMPs (see Section 3.3.1 of the SWMP). The accomplishments and the composition of the four Department-wide SWATs are described below.

### Water Quality SWAT [SWMP Section 2.2.7]

The Water Quality SWAT is composed of the District NPDES Storm Water Coordinators and representatives from the Headquarters Design, Construction, Maintenance and Water Quality Programs. The Water Quality SWAT achievements during the reporting period included the following:

- Developed SWAT Charter and assigned chairperson;
- Conducted tours of BMP pilot sites;
- Reviewed roles and responsibilities for IC/ID response;
- Worked on Annual Report and Regional Work Plan formats;
- Reviewed BMP approval process and discussed potential BMPs;
- Reviewed Maintenance guideline revisions; and
- Routine updates on the storm drain inventory.

### Project Design SWAT [SWMP Section 2.2.7]

The Project Design SWAT is composed of District representatives from Design, Construction and related functional units and representatives from the Headquarters Project Development, Environmental and Maintenance Divisions. The team typically met on a monthly basis during the report period, and was primarily concerned with Design-related issues. Major accomplishments during this reporting period included the following:

- Continued a complete revision of the Storm Water Quality Handbook: Project Planning and Design Guide (PPDG). This revision is linked to the Design Compliance Monitoring Program in that it introduces the Storm Water Data Report (SWDR), a new report that documents the consideration and incorporation of storm water BMPs within individual projects. The PPDG was actually published in September 2002 (not within the reporting period of this Annual Report).
- Continued guidance and training for designers on new design requirements in the approved SWMP, and developed new training based upon the revised PPDG.
- Conducted erosion control training courses for project engineers and landscape architects.
- Reviewed the results of pilot studies for new technologies.
- Reviewed proposed erosion control research.
- Supported the Construction and Design Division in developing temporary construction BMP (SSPs) to be included in plans, specifications and estimate (PS&E) packages.

### Construction SWAT [SWMP Section 2.2.7]

The Construction SWAT assisted in the revision of the Construction Guidelines and Storm Water Quality Handbook and provided a forum for sharing District-specific experience in the implementation of BMPs. The Construction SWAT is composed of representatives from District and Headquarters Construction Divisions. Construction SWAT meetings may also be attended by members of the Storm Water Task Force responsible for implementing the construction compliance monitoring program (see Section 8). Quarterly meetings were held during the reporting period.

Construction SWAT achievements during the reporting period included the following:

- Provided Construction Change Order guidelines to comply with the updated Lahontan RWQCBs new rainy season;
- Provided updates to the program, SSPs, work plans and the SWMP;
- Provided Construction Change Order guidelines to comply with the new sampling and analysis requirements;

- Reviewed and dispensed information involving the environmental branch's erosion control research;
- Continued improvement, development and implementation of training courses on construction site BMPs for resident engineers and construction inspectors;
- Assisted in the development of a new BMP field guide;
- Reviewed and dispensed information involving the annual construction compliance review program;
- Finalized the Dewatering Manual;
- Reviewed and dispensed information involving BMPs as bid items on Department contracts;
- Reviewed the Department's Storm Water Quality Handbook, Construction BMPs Manual and Storm Water Pollution Prevention Plan (SWPPP) and Water Pollution Control Plan (WPCP) Preparation Manual;
- Reviewed and dispensed information regarding the training course for contractor storm water managers and SWPPP preparers;
- Developed and reviewed Structures Construction BMPs for inclusion into the next version of the Construction BMPs Manual;
- Developed a training course for Dewatering on construction sites;
- Developed a new District Storm Water Coordinator Manual;
- Developed guidance material for project-specific contractor storm water training; and
- Reviewed the activities and findings of the construction compliance monitoring program.

### **Maintenance SWAT [SWMP Section 2.2.7]**

The Maintenance SWAT provided input into the development of the maintenance program in the SWMP, assisted in the revision of the Maintenance Guidelines, and provided a form for sharing District-specific experience in the implementation of BMPs. The Maintenance SWAT is composed of District Maintenance Storm Water Coordinators and representatives from the headquarters Maintenance, Water Quality, and Project Development programs. Primary activities completed by the Maintenance SWAT during the reporting period included the following:

- Participated in revisions and finalized the Maintenance BMPs and Practice Guidelines;
- Assisted in the evaluation of new Design and Treatment BMPs to ensure that long-term maintenance considerations were being addressed;
- Provided input and discussion on minor slides and slipout management;
- Provided feedback to ongoing research efforts (see Section 7 of this report);

- Identified materials, labor, and equipment needed for SWMP implementation and developed a prioritized strategy for implementation;
- Assisted in the design and implementation of Maintenance yard and highway runoff characterization studies;
- Assisted Headquarters in developing procedures for inspection and cleaning of the storm water conveyance systems;
- Coordinated the Department's strategy for the reduction of chemical usage for the management of vegetation (see Section 5, E Family [Landscaping] of this report);
- Evaluated roadside sweeping methods to reduce impacts to storm water quality;
- Reviewed accidental discharges and noncompliance notifications to provide feedback to Districts to reduce the likelihood of future occurrences;
- Provided input into the development of the Maintenance Staff Guide; and
- Reviewed training materials currently under development and provided feedback on the Maintenance training program (See Section 6, Maintenance Employee Training, of the report).

### **COORDINATION WITH MUNICIPAL STORM WATER PERMITTEES [SWMP Section 2.3]**

In many cases, discharges from Department facilities flow to drainage systems owned and operated by municipalities (e.g., cities or counties) and vice versa. The Districts are responsible for municipal coordination. Specific coordination activities are described in Section 9, Municipal Coordination Program Report, of this report.

The Department has a Web site that is used for municipal coordination. The Web site address is <http://www.dot.ca.gov/hq/env/stormwater/index.htm>. The content of the Web site is summarized in Section 2.3.3.1 of the SWMP.

Updates to the Web site during the reporting period included the addition of new informational bulletins, updated activities and events, and posting of new documents. The Web site also identifies all District NPDES Coordinators and Headquarters program leads, and includes their contact information.

### **ENCROACHMENT PERMITS AND THIRD-PARTY ACTIVITIES [SWMP Section 2.2.10]**

The Division of Right of Way manages all airspace properties, property held for future transportation projects, excess properties, and employee housing at certain maintenance stations. Future transportation project and excess properties include residential, commercial and other uses. Right of Way inspects these properties for loss prevention and markets, leases and arranges for their maintenance. Right of Way also obtains rental agreements and arranges for

property maintenance for employee housing. Prior to construction of a project, Right of Way clears the properties by demolition, sale or relocation of improvements.

Section 2.2.10 of the SWMP requires the Department to review all existing airspace leases, which are also administered by Right of Way. Airspace is defined as any area within a State right-of-way that can safely accommodate a secondary use. The Department leases airspace sites (primarily in urban areas) for such purposes as parking lots and open storage. Airspace may also consist of developed sites with improvements such as a movie theater complex, mini-blind manufacturers, wholesale grocery warehouse, self-storage units, wireless communication facilities and other low impact uses. Proposals to develop or improve airspace sites are subject to the conditions of an Encroachment Permit.

### **Airspace Inspection Summary [SWMP Section 2.2.10]**

Inspection of existing airspace leases was completed by January 1, 2002, as required in Section 2.2.10 of the SWMP. Approximately 347 airspace sites were inspected statewide. Out of the 347 sites inspected, 284 passed inspection, 54 needed some minor corrective action, and 9 were identified with more serious problems. All problems identified have been resolved or are in the process of being resolved. A summary of the review is provided below.

#### **District 1**

District 1 had one airspace parcel. It was found to be in good condition.

#### **District 2**

District 2 did not have any airspace leases.

#### **District 3**

Forty-seven airspace parcels were inspected in District 3. These included leased and unleased parcels. All were in good condition and did not have any storm water problems.

#### **District 4**

Seventy-five airspace parcels under lease were inspected (District 4 has roughly 383 airspace parcels). Due to time constraints, the inspection did not include vacant or unoccupied properties, properties leased for telecommunication (wireless) equipment, leased properties in the City and County of San Francisco (which drain into a combined sanitary/storm water system) or properties used by the Caltrans Maintenance Division. Of the 75 parcels that were inspected, 67 were in good condition with no storm water problems, 5 needed minor corrections and 3 had major problems.

Corrections were needed for poor housekeeping (e.g. open dumpsters, exposed batteries, garbage and old appliances) on the properties and sediment build up around drain inlets. More serious problems included vehicle washing, fueling and repairs performed without adequate storm water quality controls and exposed chemicals, solvents and batteries.

Lessees were required to correct the deficiencies, and follow-up inspections found no further infractions.

### District 5

District 5 did not have any airspace leases other than three telecommunication facilities. The three wireless sites in District 5 are small sites that are only used for telecommunication equipment and were not inspected.

### District 6

Three airspace parcels in District 6 were inspected. Two parcels were found in good condition and one needed minor correction. For the minor correction, the Lessee was advised to sweep and vacuum the premises rather than hose it down; and the Lessee has complied with that recommendation.

### District 7

One hundred forty-seven airspace parcels were inspected. These included leased and unleased parcels. Of the 147 parcels inspected, 108 passed inspection, 36 needed minor corrective action, and 3 had serious problems. The majority of minor corrective actions were for open dumpsters and drains with sediment and/or debris. Of the three parcels that had serious deficiencies, one had trash, debris and pollutants in an open area, one parcel had oil drums, and the third parcel had a problem with sewage backup. Lessees on these parcels were advised of the corrective action needed. Regular follow-up inspections have been conducted as a part of the District's normal inspection process.

### District 8

District 8 did not have any airspace leases.

### District 9

District 9 did not have any airspace or wireless leases.

### District 10

Eleven airspace parcels in District 10 were inspected. Of the 11 parcels inspected, 5 were in good condition and 6 needed minor corrections. The minor corrections included items such as removing trash and debris from the lease premises, eliminating overflow from an outside sink, keeping dumpster lids closed and stenciling a drain inlet. Lessees were advised of the corrective action needed and have complied.

### District 11

Fifty-nine airspace parcels were inspected, including wireless sites. This excludes vacant properties and properties used by the Caltrans Maintenance Division. Of the 59 properties

inspected, 51 passed inspection, 5 passed inspection with minor corrections, and 3 did not pass inspection.

Minor corrections included the need for gravel bags at an outlet, resealing deteriorating asphalt, sweeping up sand from pavement and cleaning out a drainage structure and a potential problem involving car washing. The three parcels that did not pass inspection had problems with sediment in a drainage ditch, ponding near wash water tanks and uncovered debris and dirt. Problems identified on these eight parcels have either already been resolved or are in the process of being corrected.

### District 12

Four airspace parcels were inspected in District 12. Three of the parcels did not indicate any problems and required no further action. The fourth parcel was found to have an open dumpster and the Lessee was notified to correct this deficiency.

### COORDINATION WITH RWQCBs [SWMP Section 2.4]

The Department recognizes that effective coordination with the RWQCBs is important to the success of the storm water management program. The Districts coordinate both formally and informally with their corresponding counterparts at the RWQCBs on a wide variety of issues (see Section 9, Regional Work Plans). Primary RWQCB contacts are identified in Table AR2-1.

**TABLE AR2-1: STATE AND REGIONAL BOARD PERMIT CONTACTS**

REGION	NAME	PHONE	E-MAIL
<b>Key Contacts:</b>			
1 – North Coast	John Short	(707) 576-2065	<a href="mailto:Shortj@rb1.swcrb.ca.gov">Shortj@rb1.swcrb.ca.gov</a>
2 – San Francisco	Hossain Kazemi	(510) 622-2369	<a href="mailto:MHK@rb2.swcrb.ca.gov">MHK@rb2.swcrb.ca.gov</a>
3 – Central Coast	Jennifer Bitting	(805) 549-3334	<a href="mailto:Jbitting@rb3.swcrb.ca.gov">Jbitting@rb3.swcrb.ca.gov</a>
4 – Los Angeles	Carlos Urrunaga	(213) 576-6655	<a href="mailto:Currunag@rb4.swcrb.ca.gov">Currunag@rb4.swcrb.ca.gov</a>
5 – Central Valley – R	Carole Crowe	(530) 224-4849	<a href="mailto:Crowec@rb5r.swcrb.ca.gov">Crowec@rb5r.swcrb.ca.gov</a>
5 – Central Valley – S	Dani Berchtold	(916) 255-3383	<a href="mailto:BerchtD@rb5s.swcrb.ca.gov">BerchtD@rb5s.swcrb.ca.gov</a>
5 – Central Valley – F	Brian Erlandsen	(559) 445-6071	<a href="mailto:ErlandsenB@rb5f.swcrb.ca.gov">ErlandsenB@rb5f.swcrb.ca.gov</a>
6 – Lahontan – SLT	Bud Amorfini	(530) 542-5437	<a href="mailto:Amorb@rb6s.swcrb.ca.gov">Amorb@rb6s.swcrb.ca.gov</a>
6 – Lahontan – V	Doug Feay	(760) 241-6583	<a href="mailto:Dfeay@rb6v.swcrb.ca.gov">Dfeay@rb6v.swcrb.ca.gov</a>
7 – Colorado River	Adbi Haile	(760) 776-8939	<a href="mailto:Haila@rb7.swcrb.ca.gov">Haila@rb7.swcrb.ca.gov</a>
8 – Santa Ana River	Bob Whitaker	(909) 782-4993	<a href="mailto:Bwhitake@rb8.swcrb.ca.gov">Bwhitake@rb8.swcrb.ca.gov</a>
9 – San Diego	Kristin Schwall	(858) 467-2345	<a href="mailto:Schwk@rb9.swcrb.ca.gov">Schwk@rb9.swcrb.ca.gov</a>
State Board	John Welch	(916) 324-3572	<a href="mailto:Welcj@dwq.swcrb.ca.gov">Welcj@dwq.swcrb.ca.gov</a>
<b>Secondary Contact (interested parties)</b>			
1 – North Coast	Paul Keiran	(707) 576-2753	<a href="mailto:Keirp@rb1.swcrb.ca.gov">Keirp@rb1.swcrb.ca.gov</a>
1 – North Coast	Mona Dougherty	(707) 570-3761	<a href="mailto:doug@rb1.swcrb.ca.gov">doug@rb1.swcrb.ca.gov</a>
2 – San Francisco	Dale Bowyer	(510) 622-2323	<a href="mailto:Dcb@rb2.swcrb.ca.gov">Dcb@rb2.swcrb.ca.gov</a>
3 – Central Coast	Donnette Dunaway		
4 – Los Angeles	Xavier Swamikannu	(213) 576-6654	<a href="mailto:Xswami@rb4.swcrb.ca.gov">Xswami@rb4.swcrb.ca.gov</a>

**TABLE AR2-1: STATE AND REGIONAL BOARD  
PERMIT CONTACTS (CONTINUED)**

REGION	NAME	PHONE	E-MAIL
5 – Central Valley – F	Lisa Gymer	(559) 445-6046	Gymerl@rb5f.swrcb.ca.gov
5 – Central Valley – S	Bill Marshall	(916) 255-3070	Mahsaw@rb5s.swrcb.ca.gov
6 – Lahontan - SLT	Mary Fiore Wagner	(530) 542-5425	Firom@rb6s.swrcb.ca.gov
6 – Lahontan - V	Cindi Minton	(760) 241-7413	Cminton@rb6v.swrcb.ca.gov
7 – Colorado River	Abdi Haile	(760) 776-8939	Haila@rb7.swrcb.ca.gov
8 – Santa Ana River	Mark Smythe	(909) 782-4998	Msmythe@rb8.swrcb.ca.gov
9 – San Diego	Chris Means	(858) 637-5581	Meanc@rb9.swrcb.ca.gov
State Board	Bruce Fujimoto	(916) 341-5524	Fujib@dwq.swrcb.ca.gov

F Fresno  
R Redding  
S Sacramento  
SLT South Lake Tahoe  
V Victorville

The Department's Division Chief for Environmental Analysis initiated annual meetings among the Department's twelve District Directors and the Executive Officers of the nine RWQCBs to discuss methods for the efficient resolution of water quality issues to the satisfaction of both organizations. Two such meetings, one each in northern and southern California, have been conducted to date. The attendees agreed that a Storm Water Focal Person (SFP) would be identified in each District and RWQCB. A dispute resolution process was finalized in the spring of 2002.

In addition to the Annual Report, the Department formally communicates with the RWQCBs through:

- Regional Work Plans;
- Notification of new projects during planning or design (Section 4.4.1 of the SWMP);
- Notices of construction (Section 4.5 of the SWMP);
- Notification of noncompliance; and
- Notification of spills and identification of illicit connection/illegal discharges (IC/IDs).

### ANALYSIS OF LEGAL AUTHORITY [SWMP Section 2.6]

The Department has determined that its current legal authority is adequate to allow control of roads and facilities under their jurisdiction. During the reporting period, no legal problems were encountered that would impede the implementation of the Permit and SWMP.

### OVERVIEW

This section of the Annual Report provides an update on the Department's efforts to identify and implement new BMPs. Section 3 of the SWMP describes the process used by the Department to identify candidate BMPs, then evaluate and approve successful BMPs. The process of BMP evaluation from identification through implementation has not changed since the SWMP was adopted. This section discusses the following attachments to the Annual Report:

- New Technology Report, April 2003; and
- Storm Water Treatment Technology Research Status Report, April 2003.

### BMP RESEARCH [SWMP Section 3.3.2.1]

The Department has a program to evaluate "new technologies" for storm water management. "New technologies" are the latest innovations in permanent storm water treatment and control, as well as existing technologies currently in use by municipal or storm water management programs not previously selected as BMPs by the Department.

There are two phases in the research program. The first phase is the identification and preliminary screening of candidate BMPs. The results of this effort are described in the New Technology Report, April 2003. This report describes the process of identifying new technologies and includes a series of technology fact sheets with preliminary screening information. Favorable evaluations of BMPs in the New Technology Report, April 2003 may lead to pilot studies or other research by the Department to gather performance data. The status of these studies is provided in the Storm Water Treatment Technology Research Status Report, April 2003. Successfully piloted technologies may be approved and listed in the SWMP as a permanent BMP to be used where applicable by the Department's project engineers.

### EVALUATION OF CANDIDATE BMPs [SWMP Sections 3.3.2.2 and 3.3.2.3]

No new treatment technologies were recommended for approval during the 2001/2002 reporting period. The status of all treatment technology studies currently being evaluated is provided in the attached Storm Water Treatment Technology Research Status Report, April 2003. As the data and conclusions from these studies become available, decisions on whether to approve additional treatment technologies will be made.

See Table AR7-1 of this report for a list of the treatment technologies currently being evaluated in pilot studies.

## OVERVIEW

Section 4 describes how project planning, design and construction activities achieve Permit compliance. This section responds to the requirements specified in the SWMP. Appendix B of the SWMP provides design pollution prevention, construction and treatment BMP descriptions, and the Guidelines describe BMP implementation.

## PROJECT DELIVERY STORM WATER MANAGEMENT RESPONSIBILITIES [SWMP Section 4.2]

The Office of Storm Water Management–Design provides general guidance to the Design Divisions in the Districts on the implementation of water quality management practices, assesses District incorporation of storm water quality management features into facility designs, and assists the Water Quality Program in the preparation of the Annual Report. The Office of Storm Water Management–Design also provides training to design staff on how to incorporate storm water BMPs into projects during planning and design phases.

The Design Division Chief is responsible for statewide implementation policies and procedures and the personnel of the Design Division. This includes ensuring compliance with all elements of the SWMP as required of the Design Division.

## DESIGN POLLUTION PREVENTION BMPs [SWMP Section 4.3]

### Incorporation of Design Pollution Prevention BMPs into Projects [SWMP Section 4.3.1]

The approved SWMP identifies several Design Pollution Prevention BMPs that are considered and, as appropriate, incorporated into the design of new facilities or the reconstruction and expansion of existing facilities. The consideration of these BMPs is described in the Guidelines and the PPDG. Both the Guidelines and the PPDG will continue to evolve as feedback on the performance of completed projects incorporating these BMPs becomes available.

Section 4.3.1 of the SWMP requires feedback on the use of innovative measures to be included in the Annual Report. Innovative design approaches are typically coordinated through the Monitoring and Research Program within the Environmental Division to allow for the collection of data to evaluate the performance of enhanced BMPs. Section 7 of this report, the attached New Technology Report and the attached Storm Water Treatment Technology Research Status Report discuss various studies that are currently in progress, including further evaluation of vegetated surfaces for their water quality benefits.

### Alternative Highway and Storm Drainage Standards [SWMP Section 4.3.2]

The SWMP requires the preparation of a report on Alternative Highway and Storm Drainage Standards. Section 4.3.2 of the SWMP requires the Annual Report to document progress on this

effort until the final report is generated. The Office of Storm Water Management–Design has completed this report by working closely with Department maintenance personnel. This report identifies maintenance challenges and safety concerns associated with various BMPs and siting criteria. The study was completed on January 1, 2003, and a technical report of the findings is being provided as an attachment to this Annual Report.

## **TREATMENT BMPs [SWMP Section 4.4]**

The Project Design SWAT continued to participate in the development of siting and design criteria for the treatment technologies that are included in the approved SWMP. During this reporting period, gross solids removal devices (GSRDs) were approved for use as treatment BMPs in areas where receiving waterbodies are on the 303(d) list for litter, or where total maximum daily loads (TMDLs) require litter removal.

## **New Construction and Major Reconstruction Projects [SWMP Section 4.4.1]**

Section 4.4.1 of the SWMP identifies four phases of project delivery. These categories are listed in Table AR4-1. Since the SWMP was approved in May 2001, the Department has worked on projects that fall into every category listed in Table 4-3 of the SWMP. Category “C” and Category “D” projects will likely begin to phase out by fiscal year 2004/2005.

Section 4.4.1 of the SWMP requires the Department to notify the RWQCBs during the planning or design phases of new construction and major reconstruction projects. These notifications take place by the following mechanisms:

- Identification of new projects in the annual Regional Work Plans;
- Identification of ongoing projects in the Annual Report;
- Notification through the California Environmental Quality Act/National Environmental Policy Act (CEQA/NEPA);
- Invitations to RWQCB staff to attend Project Development Team (PDT) meetings; and
- Frequent correspondence between Department staff and RWQCB staff.

There are approximately 1,300 new construction and major reconstruction projects currently in the planning and design phases. These projects vary in nature from new freeway sections to lane widenings, lane additions, or major reconstruction required to bring highways up to current design standards. Treatment BMPs are incorporated into project designs as appropriate per the siting and design criteria presented in the SWMP, the Guidelines and the PPDG. Each of the Regional Work Plans provided as attachments to this Annual Report includes a table showing the projects that are presently in design. Additional information on the deployment of treatment BMPs is not available for this reporting period due to the lack of a tracking mechanism during the 2001/2002 fiscal year. The new tracking system being developed and deployed will make it possible to provide additional information in future Annual Reports.

**TABLE AR4-1: PHASES OF PROJECT DELIVERY FOR NEW CONSTRUCTION AND MAJOR RECONSTRUCTION PROJECTS**

<b>CATEGORY</b>	<b>PROJECT DELIVERY STATUS</b>	<b>PROCESS TO INCORPORATE APPROVED TREATMENT BMPs</b>	<b>HOW APPROVED BMPs ARE ADDRESSED AND FUNDED</b>
A	Beginning of Project Delivery Process prior to approval of the PSR	Storm water quality issues will be evaluated and treatment BMPs considered during the project alternatives and work plan development.	Cost of treatment BMPs will be programmed into the project.
B	PSR approved but Environmental Documents are not final	Treatment BMPs will be evaluated and where feasible incorporated into a project's design and addressed in the environmental documents.	Will incorporate BMPs and seek funding from the CTC. The Department will report to the SWRCB when the CTC has rejected the Department's request for funding.
C	Environmental documents final	1. Environmental documents are not reopened for any reason.	
		a. Treatment BMPs can be incorporated into project without needing the environmental documents to be reopened.	Will incorporate BMPs and seek funding from the CTC. The Department will report to the SWRCB when the CTC has rejected the Department's request for funding.
		b. Treatment BMPs cannot be incorporated into project without needing the environmental documents to be reopened.	Project will be tagged for high priority retrofit to incorporate BMPs. Will seek funding from the CTC. The Department will report to the SWRCB when the CTC has rejected the Department's request for funding.
		2. Environmental documents are reopened for some other reason other than storm water.	Notify RWQCB; follow process identified in Category B above.
D	Environmental documents final, design complete and project in the construction phase of project delivery	1. Project construction is not scheduled within 180 days (to be established with the Department)	
		a. Treatment BMPs can be incorporated into project without needing the environmental documents to be reopened.	Will incorporate BMPs and seek funding from the CTC. The Department will report to the SWRCB when the CTC has rejected the Department's request for funding.

**TABLE AR4-1: PHASES OF PROJECT DELIVERY FOR NEW CONSTRUCTION AND MAJOR RECONSTRUCTION PROJECTS (CONTINUED)**

<b>CATEGORY</b>	<b>PROJECT DELIVERY STATUS</b>	<b>PROCESS TO INCORPORATE APPROVED TREATMENT BMPS</b>	<b>HOW APPROVED BMPS ARE ADDRESSED AND FUNDED</b>
D		b. Treatment BMPS cannot be incorporated into project without needing the environmental documents to be reopened.	Project will be tagged for high priority retrofit to incorporate treatment BMPS. Will seek funding from the CTC. The Department will report to the SWRCB when the CTC has rejected the Department's request for funding.
		2. Project scheduled for construction within 180 days.	Project will be tagged for high priority retrofit to incorporate treatment BMPS. Will seek funding from the CTC. The Department will report to the SWRCB when the CTC has rejected the Department's request for funding.

- BMP best management practice
- CTC California Transportation Commission
- PSR Project Summary Report
- RWQCB Regional Water Quality Control Board
- SWRCB California State Water Resources Control Board

**Retrofit Opportunities [SWMP Section 4.4.2]**

Per Section 4.4.2 of the SWMP, the Annual Report is to include a summary of retrofit projects implemented by the Department during the reporting period. The Department has been providing guidance to initiate the incorporation of treatment BMPS into retrofit projects to comply with the requirements of the approved SWMP. Detailed information on the deployment of Treatment BMPS within Retrofit Projects is not available for this reporting period due to the lack of a tracking mechanism during the 2001/2002 fiscal year. The new tracking system being developed and deployed will make it possible to provide additional information in future Annual Reports.

**CONSTRUCTION SITE BMPS [SWMP Section 4.5]**

The Construction BMP Manual identifies Department procedures for the proper field installation and maintenance of temporary BMPS at construction sites. The SWPPP and WPCP Preparation Manual identifies Department procedures for the preparation and review of SWPPPs and WPCPs. A SWPPP/WPCP electronic template was also created for use by Department contractors and staff. Free downloadable versions of each of these manuals and templates are available on the Web page. As of July 1, 2002, the Construction Division's Web page had received over 32,000 hits since it started January 19, 2001.

The Construction Manual is the Construction Division's document identifying the procedures for administration of construction projects. A copy of this manual is available through the Web page.

The Construction Division also issued Construction Program Directives (CPD) 01-07 and 01-08 during this reporting period. CPD 01-07 implements a new requirement to sample and analyze storm water runoff from construction sites. This CPD established guidelines to comply with the SWRCB court-ordered decision on April 24, 2001, to modify the NPDES Permit (CAS000002) to include new sampling and analytical requirements for construction projects. These guidelines apply only to projects that require the development of SWPPPs.

CPD 01-08 implements new dates for the rainy season for projects that are located in the Lahontan Regional Water Quality Control Board's jurisdiction that must be implemented by August 1, 2001.

The Construction and Design Divisions updated and revised the contract SSPs for all Department construction projects. Part of the revised SSP was the inclusion of sampling and analysis requirements for construction projects. The contract special provisions require that construction contractors comply with all NPDES Permit requirements, including preparation of a SWPPP or WPCP and the implementation of BMPs. The special provisions are posted on the Office Engineer's Web site.

Section 4.5 of the SWMP requires feedback on the use of innovative measures to be included in the Annual Report. One construction project provided 16 hours of storm water training for all project staff (contractor and Caltrans). Attendees included laborers, project superintendent, inspectors and resident engineer. Quality of the SWPPP program and BMP placement and maintenance was noticeably improved for the project. The Construction Division will continue to track the use of innovative measures and will report them in future Annual Reports.

The Districts hold pre-construction meetings for all SWPPP projects and appropriate staff from the RWQCB are invited to attend. Pre-construction meetings are important in identifying unique or important project requirements for the contractor, including the preparation of a SWPPP and other environmental permits. Table AR4-2 summarizes general implementation activities by the Construction Division.

**TABLE AR4-2: CONSTRUCTION PROGRAM IMPLEMENTATION ACTIVITIES**

DISTRICT	# OF ACTIVE WPCPS	# OF ACTIVE SWPPPS	# OF PRE-CONSTRUCTION MEETINGS ATTENDED BY DCSWCS	# OF PRE-CONSTRUCTION MEETINGS ATTENDED BY RWQCB
N.R.	18	8	6	5
4	64	69	15	0
C.R.	249	60	18	4
7	139	25	24	3
8	54	35	89	0
11	19	18	11	2
12	22	14	0	1

\* Estimated number of pre-construction meetings.

C.R.	Central Region	SWPPP	Storm Water Pollution Prevention Plan
DCSWC	District Construction Storm Water Coordinator	WPCP	Water Pollution Control Plan
INA	Information not available this reporting period	RWQCB	Regional Water Quality Control Board
N.R.	North Region		

**Construction Site BMPs Under Consideration [SWMP Section 4.5.1]**

Currently two Construction Site BMPs are under consideration for inclusion on the list of approved BMPs for construction: the Level Spreader (Temporary Soil Stabilization BMP) and Stabilized Construction Entrance/Exit (Tracking Control BMP).

Level Spreader

Level spreaders are large-scale energy dissipation devices most commonly used in building construction sites. BMPs for outlet protection and velocity dissipation devices are already on the approved BMP list (SS-10).

The Department conducted an effectiveness evaluation for the level spreader construction BMP and submitted its report to the SWRCB on May 13, 2002. Results of the report indicate this BMP was ineffective for use in Department highway construction projects. A Departmental memorandum was issued along with the report providing additional justification for rejecting the Level Spreader as an approved BMP.

Construction Entrance/Exit

This Tracking Control BMP includes the use of stabilized (aggregate) construction and the use of steel grating at the entrance and or exits to construction sites.

On May 13, 2002, the Department submitted a technical memorandum titled Stabilized Construction Entrance/Exit Effectiveness Evaluation Status Report, along with a Departmental memorandum requesting time to evaluate this BMP further during the next rainy season.

Based on preliminary findings and subsequent review of this BMP, the Department has determined the use of the Stabilized Construction Entrance/Exit as a BMP is a viable method of

## SECTIONFOUR

tracking control, but cannot preclude the use of the Street Sweeping and Vacuuming BMP for temporary sediment control in conjunction with the Stabilized Entrance/Exit BMP. The Department proposes to revise the Stabilized Construction Entrance/Exit BMP (TC-1) in accordance with the preliminary findings of the status report submitted to the SWRCB on May 13, 2002.

## OVERVIEW

Section 5 presents the Maintenance Division’s program and status information as required by the SWMP and Permit including:

- Maintenance BMPs;
- Non-storm water discharges; and
- Maintenance of treatment BMPs.

The Maintenance Storm Water Management Program involves personnel from Headquarters and twelve District offices in the implementation of maintenance-related sections of the SWMP and NPDES Permit requirements. Maintenance SWATs meet regularly regarding the status of the program and to coordinate with the Department’s Environmental Division.

## MAINTENANCE BMPs [SWMP Section 5.3]

### Baseline Storm Water Drainage Facilities Inspection and Cleaning Program [SWMP Section 5.3.2.1]

Section 5.3.2.1 of the SWMP describes annual inspection and cleaning of culverts, drain inlets, ditches, gutters and downdrains, as necessary. The baseline inspection and cleaning activities are to be reported annually. Table AR5-1 provides an inventory of the inspected facilities.

**TABLE AR5-1: SUMMARY OF DRAIN INLETS INSPECTED BY DISTRICT**

DISTRICT / PROGRAM	COUNTY	ROUTE	TOTAL NUMBER OF DRAIN INLETS INSPECTED
1	Del Norte	101	357
1	Del Norte	169	31
1	Del Norte	197	61
1	Del Norte	199	305
1	Del Norte	Misc. Facilities	2
1	Humboldt	36	340
1	Humboldt	96	410
1	Humboldt	101	1150
1	Humboldt	169	213
1	Humboldt	200	42
1	Humboldt	254	358
1	Humboldt	255	22
1	Humboldt	211	2
1	Humboldt	283	1
1	Humboldt	299	395

# SECTION FIVE

**TABLE AR5-1: SUMMARY OF DRAIN INLETS INSPECTED BY DISTRICT (CONTINUED)**

DISTRICT / PROGRAM	COUNTY	ROUTE	TOTAL NUMBER OF DRAIN INLETS INSPECTED
1	Humboldt	Misc. Facilities	3
1	Lake	20	437
1	Lake	29	313
1	Lake	53	60
1	Lake	175	130
1	Lake	281	17
1	Lake	Misc. Facilities	0
1	Mendocino	1	760
1	Mendocino	20	331
1	Mendocino	36	1093
1	Mendocino	128	538
1	Mendocino	162	361
1	Mendocino	175	86
1	Mendocino	222	3
1	Mendocino	253	147
1	Mendocino	271	140
1	Mendocino	Misc. Facilities	5
1	Trinity	299	267
1	Trinity	96	226
2	Butte	32	All facilities inspected but not quantified
2	Butte	Misc. Facilities	246
2	Lassen	36	241
2	Lassen	44	72
2	Lassen	70	22
2	Lassen	139	307
2	Lassen	147	All facilities inspected but not quantified
2	Lassen	299	162
2	Lassen	395	466
2	Lassen	Misc. Facilities	All facilities inspected but not quantified
2	Modoc	139	3
2	Modoc	299	185
2	Modoc	395	88
2	Modoc	Misc. Facilities	All facilities inspected but not quantified
2	Plumas	36	All facilities inspected but not quantified
2	Plumas	49	56
2	Plumas	70	768
2	Plumas	89	114
2	Plumas	147	All facilities inspected but not quantified
2	Plumas	284	108
2	Plumas	285	All facilities inspected but not quantified
2	Plumas	Misc. Facilities	All facilities inspected but not quantified

**TABLE AR5-1: SUMMARY OF DRAIN INLETS INSPECTED BY DISTRICT (CONTINUED)**

<b>DISTRICT / PROGRAM</b>	<b>COUNTY</b>	<b>ROUTE</b>	<b>TOTAL NUMBER OF DRAIN INLETS INSPECTED</b>
2	Shasta	5	567
2	Shasta	36	133
2	Shasta	44	113
2	Shasta	89	159
2	Shasta	151	All facilities inspected but not quantified
2	Shasta	273	All facilities inspected but not quantified
2	Shasta	299	424
2	Shasta	Misc. Facilities	
2	Sierra	395	50
2	Siskiyou	3	All facilities inspected but not quantified
2	Siskiyou	5	All facilities inspected but not quantified
2	Siskiyou	89	68
2	Siskiyou	96	857
2	Siskiyou	97	All facilities inspected but not quantified
2	Siskiyou	139	All facilities inspected but not quantified
2	Siskiyou	161	All facilities inspected but not quantified
2	Siskiyou	263	All facilities inspected but not quantified
2	Siskiyou	265	All facilities inspected but not quantified
2	Siskiyou	Misc. Facilities	All facilities inspected but not quantified
2	Tehama	5	All facilities inspected but not quantified
2	Tehama	36	185
2	Tehama	89	All facilities inspected but not quantified
2	Tehama	99	All facilities inspected but not quantified
2	Tehama	172	All facilities inspected but not quantified
2	Tehama	Misc. Facilities	All facilities inspected but not quantified
2	Trinity	3	490
2	Trinity	299	844
	Trinity	36	489
3	Butte	70	All facilities inspected but not quantified
3	Butte	99	All facilities inspected but not quantified
3	Butte	149	All facilities inspected but not quantified
3	Butte	162	All facilities inspected but not quantified
3	Butte	191	All facilities inspected but not quantified
3	Colusa	5	All facilities inspected but not quantified
3	Colusa	16	All facilities inspected but not quantified
3	Colusa	20	All facilities inspected but not quantified
3	Colusa	45	All facilities inspected but not quantified
3	El Dorado	49	All facilities inspected but not quantified
3	El Dorado	50	All facilities inspected but not quantified
3	El Dorado	89	All facilities inspected but not quantified
3	El Dorado	153	All facilities inspected but not quantified
3	El Dorado	193	All facilities inspected but not quantified
3	Glenn	5	All facilities inspected but not quantified
3	Glenn	32	All facilities inspected but not quantified

**TABLE AR5-1: SUMMARY OF DRAIN INLETS INSPECTED BY DISTRICT (CONTINUED)**

<b>DISTRICT / PROGRAM</b>	<b>COUNTY</b>	<b>ROUTE</b>	<b>TOTAL NUMBER OF DRAIN INLETS INSPECTED</b>
3	Glenn	45	All facilities inspected but not quantified
3	Glenn	162	All facilities inspected but not quantified
3	Nevada	20	All facilities inspected but not quantified
3	Nevada	49	All facilities inspected but not quantified
3	Nevada	80	All facilities inspected but not quantified
3	Nevada	89	All facilities inspected but not quantified
3	Nevada	174	All facilities inspected but not quantified
3	Nevada	267	All facilities inspected but not quantified
3	Placer	20	All facilities inspected but not quantified
3	Placer	28	All facilities inspected but not quantified
3	Placer	49	All facilities inspected but not quantified
3	Placer	65	All facilities inspected but not quantified
3	Placer	80	All facilities inspected but not quantified
3	Placer	89	All facilities inspected but not quantified
3	Placer	174	All facilities inspected but not quantified
3	Placer	193	All facilities inspected but not quantified
3	Placer	267	All facilities inspected but not quantified
3	Sacramento	5	All facilities inspected but not quantified
3	Sacramento	16	All facilities inspected but not quantified
3	Sacramento	50	All facilities inspected but not quantified
3	Sacramento	51	All facilities inspected but not quantified
3	Sacramento	80	All facilities inspected but not quantified
3	Sacramento	99	All facilities inspected but not quantified
3	Sacramento	104	All facilities inspected but not quantified
3	Sacramento	160	All facilities inspected but not quantified
3	Sacramento	244	All facilities inspected but not quantified
3	Sacramento	275	All facilities inspected but not quantified
3	Sierra	49	All facilities inspected but not quantified
3	Sierra	80	All facilities inspected but not quantified
3	Sierra	89	All facilities inspected but not quantified
3	Sutter	20	All facilities inspected but not quantified
3	Sutter	70	All facilities inspected but not quantified
3	Sutter	99	All facilities inspected but not quantified
3	Sutter	113	All facilities inspected but not quantified
3	Yolo	5	All facilities inspected but not quantified
3	Yolo	16	All facilities inspected but not quantified
3	Yolo	45	All facilities inspected but not quantified
3	Yolo	50	All facilities inspected but not quantified
3	Yolo	80	All facilities inspected but not quantified
3	Yolo	84	All facilities inspected but not quantified
3	Yolo	113	All facilities inspected but not quantified
3	Yolo	128	All facilities inspected but not quantified
3	Yolo	275	All facilities inspected but not quantified
3	Yolo	505	All facilities inspected but not quantified
3	Yolo	880	All facilities inspected but not quantified
3	Yuba	20	All facilities inspected but not quantified
3	Yuba	49	All facilities inspected but not quantified

**TABLE AR5-1: SUMMARY OF DRAIN INLETS INSPECTED BY DISTRICT (CONTINUED)**

<b>DISTRICT / PROGRAM</b>	<b>COUNTY</b>	<b>ROUTE</b>	<b>TOTAL NUMBER OF DRAIN INLETS INSPECTED</b>
3	Yuba	65	All facilities inspected but not quantified
3	Yuba	70	All facilities inspected but not quantified
4	Alameda	13	All facilities inspected but not quantified
4	Alameda	24	All facilities inspected but not quantified
4	Alameda	61	All facilities inspected but not quantified
4	Alameda	77	1
4	Alameda	80	All facilities inspected but not quantified
4	Alameda	84	52
4	Alameda	92	All facilities inspected but not quantified
4	Alameda	112	All facilities inspected but not quantified
4	Alameda	123	All facilities inspected but not quantified
4	Alameda	185	All facilities inspected but not quantified
4	Alameda	205	All facilities inspected but not quantified
4	Alameda	238	1
4	Alameda	260	All facilities inspected but not quantified
4	Alameda	262	All facilities inspected but not quantified
4	Alameda	580	86
4	Alameda	680	171
4	Alameda	880	89
4	Alameda	Misc. Facilities	All facilities inspected but not quantified
4	Alameda	980	All facilities inspected but not quantified
4	Contra Costa	4	73
4	Contra Costa	17	All facilities inspected but not quantified
4	Contra Costa	24	All facilities inspected but not quantified
4	Contra Costa	80	All facilities inspected but not quantified
4	Contra Costa	84	All facilities inspected but not quantified
4	Contra Costa	123	All facilities inspected but not quantified
4	Contra Costa	160	22
4	Contra Costa	242	All facilities inspected but not quantified
4	Contra Costa	580	All facilities inspected but not quantified
4	Contra Costa	680	All facilities inspected but not quantified
4	Contra Costa	Misc. Facilities	All facilities inspected but not quantified
4	Marin	1	173
4	Marin	37	All facilities inspected but not quantified
4	Marin	101	36
4	Marin	131	9
4	Marin	251	All facilities inspected but not quantified
4	Marin	580	7
4	Marin	900	All facilities inspected but not quantified
4	Napa	12	All facilities inspected but not quantified
4	Napa	29	80
4	Napa	80	All facilities inspected but not quantified
4	Napa	121	All facilities inspected but not quantified
4	Napa	128	All facilities inspected but not quantified
4	Napa	221	All facilities inspected but not quantified

**TABLE AR5-1: SUMMARY OF DRAIN INLETS INSPECTED BY DISTRICT (CONTINUED)**

<b>DISTRICT / PROGRAM</b>	<b>COUNTY</b>	<b>ROUTE</b>	<b>TOTAL NUMBER OF DRAIN INLETS INSPECTED</b>
4	Napa	Misc. Facilities	All facilities inspected but not quantified
4	Sacramento	12	All facilities inspected but not quantified
4	Sacramento	84	All facilities inspected but not quantified
4	Sacramento	160	15
4	Sacramento	220	All facilities inspected but not quantified
4	Sacramento	Misc. Facilities	All facilities inspected but not quantified
4	San Francisco	1	All facilities inspected but not quantified
4	San Francisco	35	All facilities inspected but not quantified
4	San Francisco	80	4
4	San Francisco	82	All facilities inspected but not quantified
4	San Francisco	101	24
4	San Francisco	280	80
4	San Francisco	480	All facilities inspected but not quantified
4	San Francisco	Misc. Facilities	All facilities inspected but not quantified
4	San Mateo	1	46
4	San Mateo	35	7
4	San Mateo	82	All facilities inspected but not quantified
4	San Mateo	84	52
4	San Mateo	92	67
4	San Mateo	101	16
4	San Mateo	109	All facilities inspected but not quantified
4	San Mateo	114	All facilities inspected but not quantified
4	San Mateo	280	17
4	San Mateo	380	All facilities inspected but not quantified
4	San Mateo	Misc. Facilities	All facilities inspected but not quantified
4	Santa Clara	9	All facilities inspected but not quantified
4	Santa Clara	17	5
4	Santa Clara	25	All facilities inspected but not quantified
4	Santa Clara	35	All facilities inspected but not quantified
4	Santa Clara	82	All facilities inspected but not quantified
4	Santa Clara	85	All facilities inspected but not quantified
4	Santa Clara	87	4
4	Santa Clara	101	5
4	Santa Clara	130	All facilities inspected but not quantified
4	Santa Clara	152	All facilities inspected but not quantified
4	Santa Clara	156	All facilities inspected but not quantified
4	Santa Clara	237	All facilities inspected but not quantified

**TABLE AR5-1: SUMMARY OF DRAIN INLETS INSPECTED BY DISTRICT (CONTINUED)**

<b>DISTRICT / PROGRAM</b>	<b>COUNTY</b>	<b>ROUTE</b>	<b>TOTAL NUMBER OF DRAIN INLETS INSPECTED</b>
4	Santa Clara	280	All facilities inspected but not quantified
4	Santa Clara	680	All facilities inspected but not quantified
4	Santa Clara	880	2
4	Santa Clara	Misc. Facilities	All facilities inspected but not quantified
4	Solano	12	8
4	Solano	29	All facilities inspected but not quantified
4	Solano	37	All facilities inspected but not quantified
4	Solano	80	73
4	Solano	84	All facilities inspected but not quantified
4	Solano	113	All facilities inspected but not quantified
4	Solano	141	All facilities inspected but not quantified
4	Solano	220	All facilities inspected but not quantified
4	Solano	505	All facilities inspected but not quantified
4	Solano	680	All facilities inspected but not quantified
4	Solano	780	All facilities inspected but not quantified
4	Solano	Misc. Facilities	All facilities inspected but not quantified
4	Sonoma	1	1047
4	Sonoma	12	51
4	Sonoma	37	All facilities inspected but not quantified
4	Sonoma	101	51
4	Sonoma	116	206
4	Sonoma	121	3
4	Sonoma	128	164
4	Sonoma	Misc. Facilities	All facilities inspected but not quantified
5	Kern	Misc. Facilities	8
5	Monterey	1	109
5	Monterey	25	All facilities inspected but not quantified
5	Monterey	68	All facilities inspected but not quantified
5	Monterey	101	30
5	Monterey	146	All facilities inspected but not quantified
5	Monterey	156	All facilities inspected but not quantified
5	Monterey	183	14
5	Monterey	198	4
5	Monterey	218	All facilities inspected but not quantified
5	Monterey	Misc. Facilities	All facilities inspected but not quantified
5	San Benito	25	All facilities inspected but not quantified
5	San Benito	101	All facilities inspected but not quantified
5	San Benito	129	All facilities inspected but not quantified
5	San Benito	146	All facilities inspected but not quantified
5	San Benito	156	All facilities inspected but not quantified
5	San Benito	Misc. Facilities	All facilities inspected but not quantified

# SECTION FIVE

**TABLE AR5-1: SUMMARY OF DRAIN INLETS INSPECTED BY DISTRICT (CONTINUED)**

DISTRICT / PROGRAM	COUNTY	ROUTE	TOTAL NUMBER OF DRAIN INLETS INSPECTED
5	San Luis Obispo	1	908
5	San Luis Obispo	33	All facilities inspected but not quantified
5	San Luis Obispo	41	All facilities inspected but not quantified
5	San Luis Obispo	46	All facilities inspected but not quantified
5	San Luis Obispo	101	25
5	San Luis Obispo	166	4
5	San Luis Obispo	227	All facilities inspected but not quantified
5	San Luis Obispo	229	All facilities inspected but not quantified
5	San Mateo	9	Information not available
5	Santa Barbara	1	12
5	Santa Barbara	33	All facilities inspected but not quantified
5	Santa Barbara	101	20
5	Santa Barbara	135	All facilities inspected but not quantified
5	Santa Barbara	144	All facilities inspected but not quantified
5	Santa Barbara	150	All facilities inspected but not quantified
5	Santa Barbara	154	All facilities inspected but not quantified
5	Santa Barbara	166	All facilities inspected but not quantified
5	Santa Barbara	176	All facilities inspected but not quantified
5	Santa Barbara	192	All facilities inspected but not quantified
5	Santa Barbara	217	All facilities inspected but not quantified
5	Santa Barbara	224	All facilities inspected but not quantified
5	Santa Barbara	225	All facilities inspected but not quantified
5	Santa Barbara	246	All facilities inspected but not quantified
5	Santa Barbara	Misc. Facilities	All facilities inspected but not quantified
5	Santa Cruz	1	Information not available

# SECTION FIVE

**TABLE AR5-1: SUMMARY OF DRAIN INLETS INSPECTED BY DISTRICT (CONTINUED)**

DISTRICT / PROGRAM	COUNTY	ROUTE	TOTAL NUMBER OF DRAIN INLETS INSPECTED
5	Santa Cruz	1	30
5	Santa Cruz	9	40
5	Santa Cruz	17	All facilities inspected but not quantified
5	Santa Cruz	35	All facilities inspected but not quantified
5	Santa Cruz	129	All facilities inspected but not quantified
5	Santa Cruz	152	All facilities inspected but not quantified
5	Santa Cruz	236	All facilities inspected but not quantified
5	Santa Cruz	Misc. Facilities	All facilities inspected but not quantified
5	Santa Cruz	5731	All facilities inspected but not quantified
5	Ventura	Misc. Facilities	All facilities inspected but not quantified
6	Fresno	33	63
6	Fresno	41	667
6	Fresno	43	0
6	Fresno	63	28
6	Fresno	99	402
6	Fresno	145	3
6	Fresno	168	835
6	Fresno	180	212
6	Fresno	198	38
6	Fresno	201	0
6	Fresno	245	0
6	Fresno	269	35
6	Fresno	Misc. Facilities	86
6	Kern	5	367
6	Kern	33	248
6	Kern	41	0
6	Kern	43	181
6	Kern	46	284
6	Kern	58	284
6	Kern	65	9
6	Kern	99	303
6	Kern	119	31
6	Kern	155	147
6	Kern	166	221
6	Kern	178	537
6	Kern	184	13
6	Kern	204	0
6	Kern	223	62
6	Kings	5	0
6	Kings	33	0
6	Kings	41	41
6	Kings	43	130
6	Kings	137	0
6	Kings	198	282

**TABLE AR5-1: SUMMARY OF DRAIN INLETS INSPECTED BY DISTRICT (CONTINUED)**

<b>DISTRICT / PROGRAM</b>	<b>COUNTY</b>	<b>ROUTE</b>	<b>TOTAL NUMBER OF DRAIN INLETS INSPECTED</b>
6	Kings	269	5
6	Kings	Misc. Facilities	All facilities inspected but not quantified
6	Madera	41	359
6	Madera	49	147
6	Madera	99	208
6	Madera	145	14
6	Madera	152	50
6	Madera	233	0
6	Mariposa	41	105
6	Tulare	43	108
6	Tulare	63	139
6	Tulare	65	263
6	Tulare	99	69
6	Tulare	137	0
6	Tulare	180	0
6	Tulare	190	272
6	Tulare	198	131
6	Tulare	201	0
6	Tulare	216	3
6	Tulare	245	36
6	Tulare	Misc. Facilities	All facilities inspected but not quantified
7	Kern	5	All facilities inspected but not quantified
7	Los Angeles	1	All facilities inspected but not quantified
7	Los Angeles	2	24
7	Los Angeles	5	607
7	Los Angeles	10	All facilities inspected but not quantified
7	Los Angeles	11	All facilities inspected but not quantified
7	Los Angeles	14	803
7	Los Angeles	18	All facilities inspected but not quantified
7	Los Angeles	19	All facilities inspected but not quantified
7	Los Angeles	22	All facilities inspected but not quantified
7	Los Angeles	23	All facilities inspected but not quantified
7	Los Angeles	27	All facilities inspected but not quantified
7	Los Angeles	30	All facilities inspected but not quantified
7	Los Angeles	39	18
7	Los Angeles	42	All facilities inspected but not quantified
7	Los Angeles	47	All facilities inspected but not quantified
7	Los Angeles	48	All facilities inspected but not quantified
7	Los Angeles	57	All facilities inspected but not quantified
7	Los Angeles	60	All facilities inspected but not quantified
7	Los Angeles	66	All facilities inspected but not quantified
7	Los Angeles	71	All facilities inspected but not quantified
7	Los Angeles	72	All facilities inspected but not quantified
7	Los Angeles	90	All facilities inspected but not quantified
7	Los Angeles	91	All facilities inspected but not quantified

**TABLE AR5-1: SUMMARY OF DRAIN INLETS INSPECTED BY DISTRICT (CONTINUED)**

<b>DISTRICT / PROGRAM</b>	<b>COUNTY</b>	<b>ROUTE</b>	<b>TOTAL NUMBER OF DRAIN INLETS INSPECTED</b>
7	Los Angeles	101	All facilities inspected but not quantified
7	Los Angeles	103	All facilities inspected but not quantified
7	Los Angeles	105	All facilities inspected but not quantified
7	Los Angeles	107	All facilities inspected but not quantified
7	Los Angeles	110	All facilities inspected but not quantified
7	Los Angeles	118	All facilities inspected but not quantified
7	Los Angeles	126	124
7	Los Angeles	134	All facilities inspected but not quantified
7	Los Angeles	138	44
7	Los Angeles	159	All facilities inspected but not quantified
7	Los Angeles	164	All facilities inspected but not quantified
7	Los Angeles	170	All facilities inspected but not quantified
7	Los Angeles	187	All facilities inspected but not quantified
7	Los Angeles	210	All facilities inspected but not quantified
7	Los Angeles	213	All facilities inspected but not quantified
7	Los Angeles	248	All facilities inspected but not quantified
7	Los Angeles	405	All facilities inspected but not quantified
7	Los Angeles	605	All facilities inspected but not quantified
7	Los Angeles	710	All facilities inspected but not quantified
7	San Bernardino	2	All facilities inspected but not quantified
7	Ventura	1	26
7	Ventura	23	50
7	Ventura	33	139
7	Ventura	34	All facilities inspected but not quantified
7	Ventura	101	223
7	Ventura	118	19
7	Ventura	126	83
7	Ventura	150	30
7	Ventura	232	All facilities inspected but not quantified
8	Los Angeles	2	All facilities inspected but not quantified
8	Los Angeles	18	All facilities inspected but not quantified
8	Los Angeles	138	All facilities inspected but not quantified
8	Los Angeles	900	All facilities inspected but not quantified
8	Riverside	10	128
8	Riverside	15	302
8	Riverside	31	0
8	Riverside	60	144
8	Riverside	62	0
8	Riverside	71	10
8	Riverside	74	80
8	Riverside	78	0
8	Riverside	79	111
8	Riverside	86	0
8	Riverside	91	104
8	Riverside	95	0
8	Riverside	111	0

# SECTION FIVE

**TABLE AR5-1: SUMMARY OF DRAIN INLETS INSPECTED BY DISTRICT (CONTINUED)**

<b>DISTRICT / PROGRAM</b>	<b>COUNTY</b>	<b>ROUTE</b>	<b>TOTAL NUMBER OF DRAIN INLETS INSPECTED</b>
8	Riverside	177	0
8	Riverside	194	0
8	Riverside	195	0
8	Riverside	215	40
8	Riverside	243	10
8	Riverside	371	1
8	Riverside	900	0
8	San Bernardino	10	498
8	San Bernardino	15	167
8	San Bernardino	18	198
8	San Bernardino	30	66
8	San Bernardino	31	0
8	San Bernardino	38	19
8	San Bernardino	40	0
8	San Bernardino	58	0
8	San Bernardino	60	107
8	San Bernardino	62	0
8	San Bernardino	66	30
8	San Bernardino	71	175
8	San Bernardino	83	79
8	San Bernardino	95	6
8	San Bernardino	127	0
8	San Bernardino	138	0
8	San Bernardino	142	0
8	San Bernardino	173	0
8	San Bernardino	189	0
8	San Bernardino	194	0

# SECTION FIVE

**TABLE AR5-1: SUMMARY OF DRAIN INLETS INSPECTED BY DISTRICT (CONTINUED)**

DISTRICT / PROGRAM	COUNTY	ROUTE	TOTAL NUMBER OF DRAIN INLETS INSPECTED
8	San Bernardino	206	0
8	San Bernardino	215	116
8	San Bernardino	247	0
8	San Bernardino	259	30
8	San Bernardino	330	58
8	San Bernardino	395	0
9	Inyo	6	20
9	Inyo	127	0
9	Inyo	136	0
9	Inyo	168	12
9	Inyo	178	0
9	Inyo	190	36
9	Inyo	395	65
9	Inyo	Misc. Facilities	All facilities inspected but not quantified
9	Kern	14	49
9	Kern	178	74
9	Kern	202	22
9	Kern	395	0
9	Mono	6	0
9	Mono	89	0
9	Mono	108	0
9	Mono	120	44
9	Mono	158	20
9	Mono	167	0
9	Mono	168	0
9	Mono	182	15
9	Mono	203	15
9	Mono	266	0
9	Mono	270	0
9	Mono	395	218
9	Mono	Misc. Facilities	All facilities inspected but not quantified
9	San Bernardino	178	All facilities inspected but not quantified
9	San Bernardino	900	All facilities inspected but not quantified
10	Alpine	4	103
10	Alpine	88	198
10	Alpine	89	128
10	Alpine	207	All facilities inspected but not quantified

# SECTION FIVE

**TABLE AR5-1: SUMMARY OF DRAIN INLETS INSPECTED BY DISTRICT (CONTINUED)**

DISTRICT / PROGRAM	COUNTY	ROUTE	TOTAL NUMBER OF DRAIN INLETS INSPECTED
10	Alpine	Misc. Facilities	All facilities inspected but not quantified
10	Amador	16	32
10	Amador	26	56
10	Amador	49	122
10	Amador	88	522
10	Amador	104	36
10	Amador	124	13
10	Amador	Misc. Facilities	All facilities inspected but not quantified
10	Calaveras	4	320
10	Calaveras	12	143
10	Calaveras	26	360
10	Calaveras	49	351
10	Calaveras	104	2
10	Calaveras	Misc. Facilities	All facilities inspected but not quantified
10	Fresno	5	29
10	Madera	Misc. Facilities	All facilities inspected but not quantified
10	Mariposa	49	261
10	Mariposa	120	7
10	Mariposa	132	91
10	Mariposa	140	245
10	Mariposa	Misc. Facilities	All facilities inspected but not quantified
10	Merced	5	190
10	Merced	33	44
10	Merced	59	142
10	Merced	99	463
10	Merced	140	66
10	Merced	152	240
10	Merced	165	6
10	Merced	Misc. Facilities	All facilities inspected but not quantified
10	San Joaquin	4	12
10	San Joaquin	5	37
10	San Joaquin	12	80
10	San Joaquin	26	30
10	San Joaquin	33	3
10	San Joaquin	88	All facilities inspected but not quantified
10	San Joaquin	99	38
10	San Joaquin	120	22
10	San Joaquin	132	27
10	San Joaquin	205	13
10	San Joaquin	580	28
10	San Joaquin	Misc. Facilities	All facilities inspected but not quantified

**TABLE AR5-1: SUMMARY OF DRAIN INLETS INSPECTED BY DISTRICT (CONTINUED)**

<b>DISTRICT / PROGRAM</b>	<b>COUNTY</b>	<b>ROUTE</b>	<b>TOTAL NUMBER OF DRAIN INLETS INSPECTED</b>
10	Stanislaus	4	60
10	Stanislaus	5	52
10	Stanislaus	33	6
10	Stanislaus	99	94
10	Stanislaus	108	32
10	Stanislaus	120	194
10	Stanislaus	132	38
10	Stanislaus	165	2
10	Stanislaus	219	30
10	Stanislaus	Misc. Facilities	All facilities inspected but not quantified
10	Tuolumne	49	321
10	Tuolumne	22	144
10	Tuolumne	120	309
10	Tuolumne	132	37
10	Tuolumne	Misc. Facilities	All facilities inspected but not quantified
11	Imperial	7	0
11	Imperial	8	0
11	Imperial	78	0
11	Imperial	86	0
11	Imperial	98	0
11	Imperial	111	0
11	Imperial	115	0
11	Imperial	186	0
11	Imperial	Misc. Facilities	0

**Enhanced Storm Drain Inlet Inspection and Cleaning Program  
[SWMP Section 5.3.2.2]**

Section 5.3.2.2 of the SWMP describes the Enhanced Storm Drain Inlet Inspection and Cleaning Program. In accordance with various mandates, the Department implemented an annual drain inlet inspection and cleaning program in metropolitan areas along the South Coast (San Diego, Orange, Los Angeles, and Ventura Counties). Table AR5-2 summarizes the inspection results.

# SECTION FIVE

## Maintenance Storm Water Management Program

**TABLE AR5-2: SUMMARY OF ENHANCED STORM DRAIN INLET  
INSPECTION AND CLEANING PROGRAM**

DISTRICT/ PROGRAM	COUNTY	ROUTE	NUMBER OF DRAIN INLETS INSPECTED	NUMBER OF DRAIN INLETS INSPECTED WITH SEDIMENT GREATER 12"
7	Los Angeles	1	393	9
7	Los Angeles	2	372	30
7	Los Angeles	5	1,364	196
7	Los Angeles	10	1,536	17
7	Los Angeles	14	26	7
7	Los Angeles	19	116	5
7	Los Angeles	30	44	20
7	Los Angeles	60	756	151
7	Los Angeles	72	21	12
7	Los Angeles	90	2	0
7	Los Angeles	91	398	17
7	Los Angeles	101	1,260	56
7	Los Angeles	105	746	8
7	Los Angeles	107	60	0
7	Los Angeles	110	1,133	77
7	Los Angeles	118	555	263
7	Los Angeles	134	581	62
7	Los Angeles	170	158	56
7	Los Angeles	187	39	4
7	Los Angeles	210	1,062	45
7	Los Angeles	405	1,684	143
7	Los Angeles	605	901	143
7	Los Angeles	710	598	64
7	Ventura	1	75	0
7	Ventura	23	430	23
7	Ventura	33	192	0
7	Ventura	34	19	1
7	Ventura	101	1,116	30
7	Ventura	118	594	1
7	Ventura	126	247	3
7	Ventura	150	98	2
7	Ventura	232	19	1
11	San Diego	5	1,389	20
11	San Diego	8	390	4
11	San Diego	15	990	32
11	San Diego	52	429	2
11	San Diego	54	162	2
11	San Diego	56	149	0
11	San Diego	75	108	0
11	San Diego	76	222	0
11	San Diego	78	551	67
11	San Diego	94	204	1
11	San Diego	163	358	4
11	San Diego	252	4	0
11	San Diego	282	2	0

**TABLE AR5-2: SUMMARY OF ENHANCED STORM DRAIN INLET INSPECTION AND CLEANING PROGRAM (CONTINUED)**

DISTRICT/ PROGRAM	COUNTY	ROUTE	NUMBER OF DRAIN INLETS INSPECTED	NUMBER OF DRAIN INLETS INSPECTED WITH SEDIMENT GREATER 12"
11	San Diego	805	817	23
11	San Diego	905	70	0
12	Orange	1	131	INA
12	Orange	5	240	3
12	Orange	22	77	1
12	Orange	39	23	INA
12	Orange	55	391	10
12	Orange	57	146	INA
12	Orange	72	21	INA
12	Orange	73	105	INA
12	Orange	90	337	INA
12	Orange	91	242	2
12	Orange	133	26	INA
12	Orange	214	N/A	Relinquished to Cities
12	Orange	241	45	INA
12	Orange	250	N/A	Relinquished to Cities
12	Orange	405	137	1
12	Orange	605	18	INA

INA information not available

**E Family (Landscaping) [SWMP Section 5.3.4]**

Section 5.3.4 of the SWMP describes an erosion control pilot study conducted in District 7. The results of the study are summarized in Section 7, District 7 Erosion Control Pilot Study, of this Annual Report.

The Department has a vegetation control program based on integrated pest management principles, including the use of physical, chemical and biological methods. To implement the vegetation control program, each District includes a summary of the vegetation management plan and a description of any changes to such plans in the Regional Work Plans submitted by the Districts to the RWQCBs. Chemical usage is summarized in Table AR5-3.

**TABLE AR5-3: HERBICIDE (ACTIVE INGREDIENT) USAGE SUMMARY  
01/02 FISCAL YEAR VS. BASE 92/93 FISCAL YEAR (FY)**

DISTRICT / PROGRAM	USAGE AMOUNT 01/02 FY (LBS)	USAGE AMOUNT BASE 92/93 FY (LBS)
1	1,883	362
2	3,966	9,547
3	11,491	25,201
4	30,441	66,667
5	10,527	22,861

**TABLE AR5-3: HERBICIDE (ACTIVE INGREDIENT) USAGE SUMMARY  
01/02 FISCAL YEAR VS. BASE 92/93 FISCAL YEAR (FY) (CONTINUED)**

DISTRICT / PROGRAM	USAGE AMOUNT 01/02 FY (LBS)	USAGE AMOUNT BASE 92/93 FY (LBS)
6	23,660	54,468
7	27,207	31,813
8	11,065	25,031
9	838	115
10	18,390	39,421
11	19,245	45,135
12	9,649	16,115
<b>TOTALS</b>	<b>168,362</b>	<b>336,736</b>

FY      fiscal year  
lbs      pounds

Headquarters Maintenance, Division of Roadsides, Storm Water Unit, created the Maintenance Inspection/Slope Stabilization Team (MISST) in March 2001, to respond to the requirements in Section 5.3.4 of the SWMP. The MISST has approximately 40 active members from all 12 Districts and Headquarters, consisting primarily of Maintenance managers, superintendents, supervisors, Maintenance Storm Water Coordinators, leadworkers, landscape specialists and other Maintenance personnel. In addition, the team has four landscape architects, two environmental staff and two engineers, that all work for or with Maintenance in some capacity. The slope inspection program is summarized in Table AR5-4.

**TABLE AR5-4: MISST GROUP SLOPE INSPECTIONS**

DISTRICT / PROGRAM	COUNTY	ROUTE	POSTMILE (FROM)	POSTMILES (TO)	RECOMMENDATIONS AND COMMENTS
2	Trinity	299	25.77	72.25	MISST Crew to hydroseed some slopes, others will be addressed by Multidisciplinary Team
2	Trinity	36	0	28.56	MISST Crew to hydroseed some slopes, others will be addressed by Multidisciplinary Team
2	Trinity	3	0	30.85	MISST Crew to hydroseed some slopes, others will be addressed by Multidisciplinary Team
2	Trinity	36	28.65	41.14	MISST Crew to hydroseed some slopes, others will be addressed by Multidisciplinary Team
2	Shasta	36	0	11.93	MISST Crew to hydroseed some slopes, others will be addressed by Multidisciplinary Team
2	Shasta	299	0	25.9	MISST Crew to hydroseed some slopes, others will be addressed by Multidisciplinary Team
2	Tehama	36	0	41.84	MISST Crew to hydroseed some slopes, others will be addressed by Multidisciplinary Team

**TABLE AR5-4: MISST GROUP SLOPE INSPECTIONS (CONTINUED)**

<b>DISTRICT / PROGRAM</b>	<b>COUNTY</b>	<b>ROUTE</b>	<b>POSTMILE (FROM)</b>	<b>POSTMILES (TO)</b>	<b>RECOMMENDATIONS AND COMMENTS</b>
2	Shasta	273	0	16.83	MISST Crew to hydroseed some slopes, others will be addressed by Multidisciplinary Team
3	Nevada	20	13		To be accomplished by CCC
3	Nevada	20	23	24.5	To be accomplished by CCC
3	Nevada	20	25	27	To be accomplished by CCC
3	Nevada	20	30	31	Recommended As Project
3	Nevada	20	33	34	To be accomplished by CCC
3	Nevada	20	34.5		Recommended As Project
3	Nevada	20	37.5		To be accomplished by CCC
3	Nevada	20	37.7		Recommended As Project
3	Placer	20	0		Recommended As Project
3	Placer	20	43		To be accomplished by CCC
3	Placer	20	40	41	Recommended As Project
3	Placer	20	39.5	38.9	Recommended As Project
3	Placer	20	38		To be accomplished by CCC
3	Placer	20	37		Recommended As Project
3	Placer	20	36		To be accomplished by CCC
3	Placer	20	35.6		Recommended As Project
3	Placer	20	32.5		Recommended As Project
3	Nevada	20	30		Recommended As Project
3	Nevada	20	29	30	To be accomplished by CCC
3	Nevada	20	28.5		To be accomplished by CCC
3	Nevada	20	26		To be accomplished by CCC
3	Nevada	20	21.8		Recommended As Project
3	Nevada	20	20		To be accomplished by CCC
4	San Mateo	N/B 101	0	26.1	No Action Required
4	San Mateo	S/B 101	26.1	0	No Action Required
4	San Francisco	E/B 80	L003.7	8	No Action Required
4	San Francisco	W/B 80	5	L003.7	Referred to Multi-D team for review
4	San Francisco	W/B 80	5	8.8	No Action Required
4	San Francisco	S/B 101	11.1	0	No Action Required
4	San Francisco	N/B 101	0	11.1	No Action Required
4	Marin	W/B 131	0.37	0	No Action Required
4	Marin	W/B 131	0.9	0.51	Referred to Multi-D team for review
4	Marin	W/B 131	2	1	Referred to Multi-D team for review
4	Marin	W/B 131	4.392	1.9	Referred to Multi-D team for review
4	Marin	E/B 131	2.51	4.392	No Action Required
4	Marin	E/B 131	0.3	2.5	Referred to Multi-D team for review
4	Marin	E/B 131	0	0.247	Referred to Multi-D team for review
4	Marin	W/B 37	14.2	13.77	Referred to Multi-D team for review
4	Marin	W/B 37	13.77	0	No Action Required
4	Marin	W/B 37	14.61	14.2	Referred to Multi-D team for review
4	Marin	E/B 37	14.2	14.61	No Action Required
4	Marin	E/B 37	13.77	14.2	Referred to Multi-D team for review
4	Marin	E/B 37	0	13.77	Referred to Multi-D team for review
4	Marin	S/B 101	1.2	0.6	Referred to Multi-D team for review

TABLE AR5-4: MISST GROUP SLOPE INSPECTIONS (CONTINUED)

DISTRICT / PROGRAM	COUNTY	ROUTE	POSTMILE (FROM)	POSTMILES (TO)	RECOMMENDATIONS AND COMMENTS
4	Marin	S/B 101	1.4	1.17	Referred to Multi-D team for review
4	Marin	S/B 101	16.3	1.4	Referred to Multi-D team for review
4	Marin	S/B 101	22	16.3	Referred to Multi-D team for review
4	Marin	S/B 101	24	22	Referred to Multi-D team for review
4	Marin	S/B 101	27.6	24	Referred to Multi-D team for review
4	Marin	N/B 101	26.99	27.5	Referred to Multi-D team for review
4	Marin	N/B 101	22	26.99	Referred to Multi-D team for review
4	Marin	N/B 101	16.2	22	Referred to Multi-D team for review
4	Marin	N/B 101	12.5	16.2	Referred to Multi-D team for review
4	Marin	N/B 101	0.2	12.4	Referred to Multi-D team for review
4	Sonoma	S/B 101	0.78	0	No Action Required
4	Sonoma	S/B 101	3.7	0.76	Referred to Multi-D team for review
4	Sonoma	N/B 101	0.78	3.7	No Action Required
4	Sonoma	N/B 101	0	0.76	Referred to Multi-D team for review
4	Sonoma	E/B 116	12.35	46.7	No Action Required
4	Sonoma	W/B 116	46.7	12.35	No Action Required
4	Sonoma	E/B 12	41.36	0	No Action Required
4	Sonoma	W/B 12	0	41.36	No Action Required
4	Sonoma	N/B 121	11.61	0	No Action Required
4	Sonoma	S/B 121	0	11.61	No Action Required
4	Sonoma	W/B 128	2.4	1.17	No Action Required
4	Sonoma	W/B 128	1.17	0	No Action Required
4	Sonoma	W/B 128	26	2.4	No Action Required
4	Sonoma	E/B 128	3.67	26	No Action Required
4	Sonoma	E/B 128	0	3.67	No Action Required
4	Sonoma	S/B 101	11.68	0.76	Referred to Multi-D team for review
4	Sonoma	S/B 101	55.58	11.68	Referred to Multi-D team for review
4	Sonoma	S/B 101	55.99	55.8	Referred to Multi-D team for review
4	Sonoma	S/B 101	56.2	56	Referred to Multi-D team for review
4	Sonoma	N/B 101	0.78	9.1	Referred to Multi-D team for review
4	Sonoma	N/B 101	9.3	9.6	Referred to Multi-D team for review
4	Sonoma	N/B 101	9.8	10	Referred to Multi-D team for review
4	Sonoma	N/B 101	10.2	56.2	No Action Required
4	Sonoma	S/B 101	56.7	55.6	Referred to Multi-D team for review
4	Sonoma	W/B 116	4.52	4.4	Referred to Multi-D team for review
4	Sonoma	W/B 116	12.35	6.71	Referred to Multi-D team for review
4	Sonoma	W/B 116	0.8	0	No Action Required
4	Sonoma	E/B 116	0	12.35	No Action Required
4	Sonoma	W/B 116	4.4	0.87	Referred to Multi-D team for review
4	Sonoma	W/B 37	3.5	0	No Action Required
4	Sonoma	E/B 37	0	R6.24	No Action Required
4	Sonoma	W/B 37	R6.24	3.5	Referred to Multi-D team for review
4	San Joaquin	W/B 12	0	5.2	No Action Required
4	San Joaquin	E/B 12	5.2	0	No Action Required
4	Sacramento	W/B 220	3.2	0	No Action Required
4	Sacramento	E/B 220	0	3.1	No Action Required
4	Napa	N/B 29	0	12.7	No Action Required

**TABLE AR5-4: MISST GROUP SLOPE INSPECTIONS (CONTINUED)**

<b>DISTRICT / PROGRAM</b>	<b>COUNTY</b>	<b>ROUTE</b>	<b>POSTMILE (FROM)</b>	<b>POSTMILES (TO)</b>	<b>RECOMMENDATIONS AND COMMENTS</b>
4	Napa	S/B 29	0	12.7	No Action Required
4	Napa	N/B 221	0	2.68	No Action Required
4	Napa	N/B 221	2.68	0	No Action Required
4	Napa	W/B 128	15.56	15.8	Referred to Multi-D team for review
4	Napa	W/B 128	11.68	15.56	Referred to Multi-D team for review
4	Napa	E/B 128	0	30.66	No Action Required
4	Napa	W/B 128	15.8	15.81	Referred to Multi-D team for review
4	Napa	W/B 128	11.6	11.6	Referred to Multi-D team for review
4	Napa	W/B 128	0	11.6	Referred to Multi-D team for review
4	Napa	W/B 128	30.67	34.26	Referred to Multi-D team for review
4	Napa	W/B 128	15.81	30.66	Referred to Multi-D team for review
4	Napa	E/B 128	0	10.9	Referred to Multi-D team for review
4	Napa	E/B 128	10.9	23.34	Referred to Multi-D team for review
4	Napa	E/B 128	23.34	28.62	Referred to Multi-D team for review
4	Napa	E/B 128	28.62	29.2	Referred to Multi-D team for review
4	Napa	E/B 128	30.68	34.26	No Action Required
4	Napa	E/B 128	29.2	30.66	Referred to Multi-D team for review
4	Napa	W/B 12	3.26	0	No Action Required
4	Napa	E/B 12	0	3.26	No Action Required
4	Napa	N/B 221	0	2.61	No Action Required
4	Napa	S/B 221	2.61	0	No Action Required
4	Napa	N/B 121	0	22	Referred to Multi-D team for review
4	Napa	N/B 29	0	36.7	No Action Required
4	Napa	S/B 29	36.7	0	No Action Required
4	Napa	S/B 121	17.4	0	Referred to Multi-D team for review
4	Napa	S/B 121	22.9	17.41	Referred to Multi-D team for review
4	Napa	S/B 29	40.63	40.2	Referred to Multi-D team for review
4	Napa	S/B 29	42.83	40.63	Referred to Multi-D team for review
4	Napa	S/B 29	46.78	42.83	Referred to Multi-D team for review
4	Napa	S/B 29	46.78	46.33	Referred to Multi-D team for review
4	Napa	S/B 29	48.58	46.81	Referred to Multi-D team for review
4	Napa	N/B 29	36.7	42.85	Referred to Multi-D team for review
4	Napa	N/B 29	42.85	48.58	No Action Required
4	Napa	E/B 12	0	3.3	No Action Required
4	Napa	W/B 12	2.1	0	No Action Required
4	Napa	W/B 12	3.3	2.1	Referred to Multi-D team for review
4	Alameda	W/B 80	8	0	No Action Required
4	Alameda	E/B 80	0	8	No Action Required
4	Alameda	N/B 13	0	14	Referred to Multi-D team for review
4	Alameda	S/B 13	14.8	0	Referred to Multi-D team for review
4	Alameda	E/B 24	R1.8	R1.8	Referred to Multi-D team for review
4	Alameda	E/B 24	R1.8	R5.1	Referred to Multi-D team for review
4	Alameda	W/B 24	R5.1	R5.2	Referred to Multi-D team for review
4	Alameda	E/B 24	R5.2	R6.24	No Action Required
4	Contra Costa	E/B 24	R0.0	R0.4	Referred to Multi-D team for review
4	Alameda	E/B 980	0	0.59	Referred to Multi-D team for review
4	Alameda	E/B 980	0.59	2	No Action Required

**TABLE AR5-4: MISST GROUP SLOPE INSPECTIONS (CONTINUED)**

<b>DISTRICT / PROGRAM</b>	<b>COUNTY</b>	<b>ROUTE</b>	<b>POSTMILE (FROM)</b>	<b>POSTMILES (TO)</b>	<b>RECOMMENDATIONS AND COMMENTS</b>
4	Alameda	W/B 980	2	0.59	Referred to Multi-D team for review
4	Alameda	W/B 980	0.59	0	No Action Required
4	Contra Costa	E/B 80	0	1.6	Referred to Multi-D team for review
4	Contra Costa	E/B 80	3.3	3.7	Referred to Multi-D team for review
4	Contra Costa	E/B 80	3.8	10.7	Referred to Multi-D team for review
4	Contra Costa	N/B 242	0	3.39	No Action Required
4	Contra Costa	N/B 680	14.3	R18.7	No Action Required
4	Contra Costa	S/B 680	14.3	14.3	Referred to Multi-D team for review
4	Contra Costa	W/B 24	R0.6	R0.4	Referred to Multi-D team for review
4	Contra Costa	W/B 24	R0.5	R0.5	Referred to Multi-D team for review
4	Contra Costa	W/B 24	1.6	1.6	Referred to Multi-D team for review
4	Contra Costa	W/B 24	1.6	1.6	Referred to Multi-D team for review
4	Contra Costa	W/B 24	2	2	Referred to Multi-D team for review
4	Contra Costa	W/B 24	R1.19	R1.19	Referred to Multi-D team for review
4	Contra Costa	S/B 680	14.3	14.3	Referred to Multi-D team for review
4	Contra Costa	N/B 680	14.3	R18.7	No Action Required
4	Contra Costa	N/B 242	0	3.39	No Action Required
4	Contra Costa	E/B 80	10.7	14.1	No Action Required
4	Contra Costa	E/B 80	3.8	10.7	Referred to Multi-D team for review
4	Contra Costa	E/B 80	3.3	3.7	Referred to Multi-D team for review
4	Contra Costa	E/B 80	1.6	3.3	Referred to Multi-D team for review
4	Contra Costa	E/B 80	0	1.6	Referred to Multi-D team for review
4	Contra Costa	W/B 24	R1.19	R1.19	Referred to Multi-D team for review
4	Contra Costa	W/B 24	2	2	Referred to Multi-D team for review
4	Contra Costa	W/B 24	1.6	1.6	Referred to Multi-D team for review
4	Contra Costa	W/B 24	1.6	1.6	Referred to Multi-D team for review
4	Contra Costa	W/B 24	R0.5	R0.5	Referred to Multi-D team for review
4	Contra Costa	W/B 24	R0.6	R0.4	Referred to Multi-D team for review
4	Contra Costa	E/B 24	R0.0	R0.4	Referred to Multi-D team for review
4	Solano	E/B 80	0	R011.5	Referred to Multi-D team for review
4	Solano	E/B 80	R011.6	R011.9	Referred to Multi-D team for review
4	Solano	E/B 680	R011.9	12.5	Referred to Multi-D team for review
4	Solano	E/B 80	12.5	15.8	Referred to Multi-D team for review
4	Solano	E/B 80	15.8	16.1	Referred to Multi-D team for review
4	Solano	E/B 80	16.1	16.9	Referred to Multi-D team for review
4	Solano	E/B 80	16.9	44.7	No Action Required
4	Solano	E/B 80	14.1	14.1	Referred to Multi-D team for review
4	Solano	E/B 80	24.6	R024.7	Referred to Multi-D team for review
4	Solano	E/B 80	R024.7	R025.2	Referred to Multi-D team for review
4	Solano	E/B 80	R025.2	28.1	Referred to Multi-D team for review
4	Solano	E/B 80	28.1	31.2	Referred to Multi-D team for review
4	Solano	E/B 80	31.2	39.7	Referred to Multi-D team for review
4	Solano	W/B 80	9.7	8.4	Referred to Multi-D team for review
4	Solano	W/B 780	0.68	7.44	No Action Required
4	Solano	E/B 780	7.44	0.68	No Action Required
4	Solano	W/B 80	R44.72	R43.37	Referred to Multi-D team for review
4	Solano	W/B 80	R43.37	R43.2	Referred to Multi-D team for review

TABLE AR5-4: MISST GROUP SLOPE INSPECTIONS (CONTINUED)

DISTRICT / PROGRAM	COUNTY	ROUTE	POSTMILE (FROM)	POSTMILES (TO)	RECOMMENDATIONS AND COMMENTS
4	Solano	E/B 80	42.6	R43.37	Referred to Multi-D team for review
4	Solano	E/B 80	39.7	42.6	Referred to Multi-D team for review
4	Solano	W/B 80	9.7	8.4	Referred to Multi-D team for review
4	Solano	N/B 113	0	R22.45	No Action Required
4	Solano	S/B 113	R22.45	0	No Action Required
4	Solano	E/B 12	0	19.16	Referred to Multi-D team for review
4	Solano	E/B 12	19.6	26.4	No Action Required
4	Solano	W/B 12	26.4	1.21	Referred to Multi-D team for review
4	Solano	W/B 12	1.21	0	No Action Required
4	Solano	S/B 680	R2.6	L0.0	No Action Required
4	Solano	S/B 680	R5.0	R2.6	Referred to Multi-D team for review
4	Solano	S/B 680	R7.32	R5.0	Referred to Multi-D team for review
4	Solano	S/B 680	R10.0	R7.32	Referred to Multi-D team for review
4	Solano	S/B 680	13.12	R10.0	Referred to Multi-D team for review
4	Solano	N/B 680	R10.0	13.12	No Action Required
4	Solano	N/B 680	R7.42	R10.0	Referred to Multi-D team for review
4	Solano	N/B 680	R5.0	R7.42	Referred to Multi-D team for review
4	Solano	N/B 680	R2.8	R5.0	Referred to Multi-D team for review
4	Solano	N/B 680	L0.0	R2.8	Referred to Multi-D team for review
4	Solano	W/B 37	R12.0	R0.0	No Action Required
4	Solano	E/B 37	R0.0	R12.0	No Action Required
4	Solano	E/B 12	0	26	No Action Required
4	Solano	W/B 12	26	0	No Action Required
4	Solano	S/B 113	R22.45	0	No Action Required
4	Solano	N/B 113	0	R22.45	No Action Required
4	Solano	W/B 220	3.2	0	No Action Required
4	Solano	E/B 220	0	3.1	No Action Required
4	Solano	S/B 84	13.6	0	No Action Required
4	Solano	N/B 84	0	13.6	No Action Required
4	Solano	W/B 12	26	0	No Action Required
5	Santa Cruz	9	20.16	20.17	Referred to Stabilizers for review
5	Santa Cruz	1	7.9	8.2	Referred to Stabilizers for review
5	San Benito	25	20	29	Referred to Stabilizers for review
5	San Benito	25	27.5	28	Referred to Stabilizers for review
5	San Benito	101	0	0.51	Referred to Stabilizers for review
5	Monterey	1	54.75	54.8	Referred to Stabilizers for review
5	Monterey	1	55.2	55.3	Referred to Stabilizers for review
5	Monterey	1	59.6	59.7	Referred to Stabilizers for review
5	Monterey	1	62.6	62.7	Referred to Stabilizers for review
5	Monterey	1	55.3	55.35	Referred to Stabilizers for review
5	Monterey	1	36.1	36.2	Referred to Stabilizers for review
5	San Luis Obispo	46	29.8	48.62	No Action Required
5	San Luis Obispo	101	4.85	4.9	Referred to Stabilizers for review
5	San Luis Obispo	101	25.8	25.9	Referred to Stabilizers for review

**TABLE AR5-4: MISST GROUP SLOPE INSPECTIONS (CONTINUED)**

<b>DISTRICT / PROGRAM</b>	<b>COUNTY</b>	<b>ROUTE</b>	<b>POSTMILE (FROM)</b>	<b>POSTMILES (TO)</b>	<b>RECOMMENDATIONS AND COMMENTS</b>
5	Santa Barbara	101	72.4	72.7	Referred to Stabilizers for review
5	San Luis Obispo	101	4.85	4.9	Referred to Stabilizers for review
5	San Luis Obispo	166	39.8	39.9	Referred to Stabilizers for review
5	San Luis Obispo	166	35.8	35.9	Referred to Stabilizers for review
5	Santa Barbara	166	47.4	47.5	Referred to Stabilizers for review
5	Santa Barbara	135	9.2	9.3	Referred to Stabilizers for review
5	Santa Barbara	1	31.1	31.2	Referred to Stabilizers for review
5	Santa Barbara	1	34.5	34.7	Referred to Stabilizers for review
6					Awaiting final slope form approval from water board
7	Ventura	101	0	43.6	Northbound from LA County Line
7	Ventura	101	8.6		Recommended As Project
7	Ventura	101	32.3		Recommended As Project
7	Ventura	101	32.5		Recommended As Project
7	Ventura	101	32.9		Recommended As Project
7	Ventura	101	34.9		Recommended As Project
7	Ventura	101	43.6	0	South from S. Barbara County Line
7	Ventura	101	43.1		Repaired
7	Ventura	101	14.5		Recommended As Project
					Top of Carmen dr. on ramp
7	Ventura	33	0	55	Northbound from route 101
7	Ventura	33	14.1		Recommended As Project
7	Ventura	33	14.7		Recommended As Project
7	Ventura	33	21.8		Recommended As Project
7	Ventura	33	32		Recommended As Project
7	Ventura	33	42.1		Recommended As Project
7	Ventura	33	42-47		Recommended As Project, Long stretch of eroding, sliding slopes
7	Ventura	33	55	0	Southbound from District 5 border
7	Ventura	33	47-42		Recommended As Project
7	Ventura	33	41.1		Recommended As Project
7	Ventura	33	23.5		Recommended As Project
7	Ventura	33	22.4		Recommended As Project
7	Ventura	33	21.1		Recommended As Project
7	Ventura	33	3.2		Recommended As Project
7	Ventura	33	2.7		Recommended As Project
7	Ventura	34	5.2	17.6	Eastbound from Hwy 1
7	Ventura	34	13		Recommended As Project, Slope at R.R. overhead, Dawson Rd.
7	Ventura	126	34.6	0	Westbound from LA/VEN county line
7	Ventura	126	32.9		Recommended As Project
7	Ventura	126	31.9		Recommended As Project, Erosion problem at V-ditches
7	Ventura	126	19.2		Repaired, Slope erosion at wing wall

# SECTION FIVE

**TABLE AR5-4: MISST GROUP SLOPE INSPECTIONS (CONTINUED)**

DISTRICT / PROGRAM	COUNTY	ROUTE	POSTMILE (FROM)	POSTMILES (TO)	RECOMMENDATIONS AND COMMENTS
7	Ventura	126	17.9		Recommended As Project, Deep gullies and rills
7	Ventura	126	0	34.6	Eastbound from route 101
7	Ventura	126	4.8		Recommended As Project, Right shoulder Wells Rd off ramp
7	Ventura	126	21.8		Recommended As Project
7	Ventura	126	33.2		Recommended As Project, Asphalt drain failure causing erosion
7	Ventura	23	10	3.8	Southbound from route 118
7	Ventura	23	6.9		Recommended As Project
7	Ventura	23	3.8	10	Northbound from route 101
7	Ventura	23	6		Recommended As Project, Avenida de Los Arboles on ramp
7	Ventura	118	0	21.1	Eastbound from route 126
7	Ventura	118	0.8		Recommended As Project, Major stream bank erosion
7	Ventura	118	20.6		Recommended As Project
7	Ventura	118	21.1		Recommended As Project
7	Ventura	118	32.5	18.3	Westbound from LA/VEN county line
7	Ventura	118	27.8		Recommended As Project, Slopes under Tapo St. bridge
7	Ventura	118	11.1		Recommended As Project, Unstable slope near travelway
7	Ventura	150	16.5	34.3	Eastbound from route 126
7	Ventura	150	26.1		Recommended As Project, Major gullies, tree roots exposed
8	San Bernardino	58	0	39.47	No action required
8	San Bernardino	58	30.6		No action required
8	San Bernardino	58	31.1		No action required
8	San Bernardino	58	32.8		No action required
8	San Bernardino	58	33.6		No action required
8	San Bernardino	58	33.7		No action required
8	San Bernardino	58	33.7		No action required
8	San Bernardino	58	34		No action required
8	San Bernardino	58	34.2		No action required
8	San Bernardino	58	34.3		No action required
8	San Bernardino	58	34.7		No action required

**TABLE AR5-4: MISST GROUP SLOPE INSPECTIONS (CONTINUED)**

<b>DISTRICT / PROGRAM</b>	<b>COUNTY</b>	<b>ROUTE</b>	<b>POSTMILE (FROM)</b>	<b>POSTMILES (TO)</b>	<b>RECOMMENDATIONS AND COMMENTS</b>
8	San Bernardino	58	34.75		No action required
8	San Bernardino	58	34.7		No action required
8	San Bernardino	58	34.8		No action required
8	San Bernardino	58	34.8		No action required
8	San Bernardino	58	34.9		No action required
8	San Bernardino	58	34.7		No action required
8	San Bernardino	58	34.75		No action required
8	San Bernardino	58	34.1		No action required
8	San Bernardino	58	33.7		No action required
8	San Bernardino	58	33.3		No action required
8	San Bernardino	58	32.7		No action required
8	San Bernardino	58	33.3		No action required
8	San Bernardino	58	33.8		No action required
8	San Bernardino	58	34.2		No action required
8	San Bernardino	58	34.2		No action required
8	San Bernardino	58	34.2		No action required
8	San Bernardino	58	34.2		No action required
8	San Bernardino	58	34.2		No action required
8	San Bernardino	58	11.15		No action required
8	San Bernardino	58	11.8		No action required
8	San Bernardino	58	12.1		No action required
8	San Bernardino	58	12.7		No action required
8	San Bernardino	58	14.25		No action required
8	San Bernardino	58	14.25		No action required

# SECTION FIVE

**TABLE AR5-4: MISST GROUP SLOPE INSPECTIONS (CONTINUED)**

<b>DISTRICT / PROGRAM</b>	<b>COUNTY</b>	<b>ROUTE</b>	<b>POSTMILE (FROM)</b>	<b>POSTMILES (TO)</b>	<b>RECOMMENDATIONS AND COMMENTS</b>
8	San Bernardino	58	15.35		No action required
8	San Bernardino	58	15.83		No action required
8	San Bernardino	58	16.2		No action required
8	San Bernardino	58	18.95		No action required
8	San Bernardino	58	19.3		No action required
8	San Bernardino	58	20.5		No action required
8	San Bernardino	58	20.55		No action required
8	San Bernardino	58	14.8		No action required
8	San Bernardino	58	11.9		No action required
8	San Bernardino	58	11.8		No action required
8	San Bernardino	215	0	17.75	No action required
8	San Bernardino	215	0.39		No action required
8	San Bernardino	215	0.4		No action required
8	San Bernardino	215	0.42		No action required
8	San Bernardino	215	0.5		No action required
8	San Bernardino	215	0.75		No action required
8	San Bernardino	215	1.45		No action required
8	San Bernardino	215	1.75		No action required
8	San Bernardino	215	1.8		No action required
8	San Bernardino	215	3.01		No action required
8	San Bernardino	215	2.78		No action required
8	San Bernardino	215	2.55		No action required
8	San Bernardino	215	0.6		No action required
8	San Bernardino	215	0.4		No action required

# SECTION FIVE

**TABLE AR5-4: MISST GROUP SLOPE INSPECTIONS (CONTINUED)**

<b>DISTRICT / PROGRAM</b>	<b>COUNTY</b>	<b>ROUTE</b>	<b>POSTMILE (FROM)</b>	<b>POSTMILES (TO)</b>	<b>RECOMMENDATIONS AND COMMENTS</b>
8	San Bernardino	215	3.7		No action required
8	San Bernardino	215	4.1		No action required
8	San Bernardino	215	4.9		No action required
8	San Bernardino	215	4.9		No action required
8	San Bernardino	215	7.7		No action required
8	San Bernardino	215	8.05		No action required
8	San Bernardino	215	8.1		No action required
8	San Bernardino	215	8.6		No action required
8	San Bernardino	215	8.7		No action required
8	San Bernardino	215	9.03		No action required
8	San Bernardino	215	11.4		No action required
8	San Bernardino	215	9.5		No action required
8	San Bernardino	215	17.4		No action required
8	San Bernardino	215	17.7		No action required
8	San Bernardino	215	5.85		No action required
8	San Bernardino	215	5.45		No action required
8	San Bernardino	215	5.39		No action required
8	San Bernardino	215	6		No action required
8	San Bernardino	215	6.4		No action required
8	San Bernardino	215	9.36		No action required
8	San Bernardino	215	8.57		No action required
8	San Bernardino	259	0	1.25	No action required
8	San Bernardino	259	0.11		No action required
8	San Bernardino	259	0.81		No action required

# SECTION FIVE

**TABLE AR5-4: MISST GROUP SLOPE INSPECTIONS (CONTINUED)**

<b>DISTRICT / PROGRAM</b>	<b>COUNTY</b>	<b>ROUTE</b>	<b>POSTMILE (FROM)</b>	<b>POSTMILES (TO)</b>	<b>RECOMMENDATIONS AND COMMENTS</b>
8	San Bernardino	259	1.44		No action required
8	San Bernardino	259	0.16		No action required
8	San Bernardino	259	0.32		No action required
8	San Bernardino	66	0	23.41	No action required
8	San Bernardino	66	0.27		No action required
8	San Bernardino	66	0.22		No action required
8	San Bernardino	66	0.26		No action required
8	San Bernardino	66	4.44		No action required
8	San Bernardino	66	7		No action required
8	San Bernardino	66	10.3		No action required
8	San Bernardino	66	13.6		No action required
8	San Bernardino	66	20.7		No action required
8	San Bernardino	66	21.4		No action required
8	San Bernardino	66	22.9		No action required
8	San Bernardino	66	22.9		No action required
8	San Bernardino	15	0	8	No action required
8	San Bernardino	15	134.5	186.24	No action required
8	San Bernardino	15	1		No action required
8	San Bernardino	15	2.05		No action required
8	San Bernardino	15	1		No action required
8	San Bernardino	15	2.05		No action required
8	San Bernardino	15	2.16		No action required
8	San Bernardino	15	2.18		No action required
8	San Bernardino	15	2.41		No action required

# SECTION FIVE

**TABLE AR5-4: MISST GROUP SLOPE INSPECTIONS (CONTINUED)**

<b>DISTRICT / PROGRAM</b>	<b>COUNTY</b>	<b>ROUTE</b>	<b>POSTMILE (FROM)</b>	<b>POSTMILES (TO)</b>	<b>RECOMMENDATIONS AND COMMENTS</b>
8	San Bernardino	15	2.41		No action required
8	San Bernardino	15	175.7		No action required
8	San Bernardino	15	171.6		No action required
8	San Bernardino	15	171.5		No action required
8	San Bernardino	15	171.4		No action required
8	San Bernardino	15	171.3		No action required
8	San Bernardino	15	171.25		No action required
8	San Bernardino	15	172.2		No action required
8	San Bernardino	15	173.1		No action required
8	San Bernardino	15	173.3		No action required
8	San Bernardino	15	169.9		No action required
8	San Bernardino	15	169.6		No action required
8	San Bernardino	15	168.9		No action required
8	San Bernardino	15	168.4		No action required
8	San Bernardino	15	167.9		No action required
8	San Bernardino	15	146.95		No action required
8	San Bernardino	15	146.7		No action required
8	San Bernardino	15	142.2		No action required
8	San Bernardino	15	138.47		No action required
8	San Bernardino	15	138.47		No action required
8	San Bernardino	15	136.95		No action required
8	San Bernardino	15	137		No action required
8	San Bernardino	15	137		No action required
8	San Bernardino	15	137		No action required

**TABLE AR5-4: MISST GROUP SLOPE INSPECTIONS (CONTINUED)**

<b>DISTRICT / PROGRAM</b>	<b>COUNTY</b>	<b>ROUTE</b>	<b>POSTMILE (FROM)</b>	<b>POSTMILES (TO)</b>	<b>RECOMMENDATIONS AND COMMENTS</b>
8	San Bernardino	15	137.5		No action required
8	San Bernardino	15	137.5		No action required
8	San Bernardino	15	138		No action required
8	San Bernardino	15	138		No action required
8	San Bernardino	15	138		No action required
8	San Bernardino	15	136.5		No action required
8	San Bernardino	15	136.5		No action required
8	San Bernardino	15	136.6		No action required
8	San Bernardino	15	136.3		No action required
8	San Bernardino	15	136.05		No action required
8	San Bernardino	15	135.8		No action required
8	San Bernardino	15	135.8		No action required
8	San Bernardino	15	135.8		No action required
8	San Bernardino	15	135.8		No action required
8	San Bernardino	15	136.4		No action required
8	San Bernardino	15	136.5		No action required
8	San Bernardino	15	136.5		No action required
8	San Bernardino	15	136.2		No action required
8	San Bernardino	15	135		No action required
8	San Bernardino	15	2.16		No action required
8	San Bernardino	15	2.58		No action required
8	San Bernardino	15	3.05		No action required
8	San Bernardino	15	3.1		No action required
8	San Bernardino	15	4.53		No action required

**TABLE AR5-4: MISST GROUP SLOPE INSPECTIONS (CONTINUED)**

<b>DISTRICT / PROGRAM</b>	<b>COUNTY</b>	<b>ROUTE</b>	<b>POSTMILE (FROM)</b>	<b>POSTMILES (TO)</b>	<b>RECOMMENDATIONS AND COMMENTS</b>
8	San Bernardino	15	4.53		No action required
8	San Bernardino	15	4.53		No action required
8	San Bernardino	15	4.53		No action required
8	San Bernardino	15	5.32		No action required
8	San Bernardino	15	6.1		No action required
8	San Bernardino	15	6.7		No action required
8	San Bernardino	15	6.1		No action required
8	San Bernardino	15	6.3		No action required
8	San Bernardino	15	5.95		No action required
8	San Bernardino	15	5.93		No action required
8	San Bernardino	15	5.92		No action required
8	San Bernardino	15	5.9		No action required
8	San Bernardino	15	5.8		No action required
8	San Bernardino	15	7.38		No action required
8	San Bernardino	15	7.44		No action required
8	San Bernardino	15	7.25		No action required
8	San Bernardino	15	6.95		No action required
8	San Bernardino	15	171		No action required
8	San Bernardino	15	171.3		No action required
8	San Bernardino	15	171.47		No action required
8	San Bernardino	15	171.55		No action required
8	San Bernardino	15	171.35		No action required
8	San Bernardino	15	172.8		No action required
8	San Bernardino	15	173.2		No action required

# SECTION FIVE

**TABLE AR5-4: MISST GROUP SLOPE INSPECTIONS (CONTINUED)**

<b>DISTRICT / PROGRAM</b>	<b>COUNTY</b>	<b>ROUTE</b>	<b>POSTMILE (FROM)</b>	<b>POSTMILES (TO)</b>	<b>RECOMMENDATIONS AND COMMENTS</b>
8	San Bernardino	15	173.3		No action required
8	San Bernardino	15	175.4		No action required
8	San Bernardino	15	175.49		No action required
8	San Bernardino	15	175.5		No action required
8	San Bernardino	15	175.8		No action required
8	San Bernardino	15	175.9		No action required
8	San Bernardino	15	176.1		No action required
8	San Bernardino	15	180.4		No action required
8	San Bernardino	15	181.6		No action required
8	San Bernardino	15	181.37		No action required
8	San Bernardino	15	181.37		No action required
8	San Bernardino	15	181.37		No action required
8	San Bernardino	15	181.37		No action required
8	San Bernardino	15	181.37		No action required
8	San Bernardino	15	182.4		No action required
8	San Bernardino	15	180.2		No action required
8	San Bernardino	15	175.95		No action required
8	San Bernardino	15	173.3		No action required
8	San Bernardino	15	172.6		No action required
8	San Bernardino	15	171.4		No action required
9	Kern	14	0	3	No Action Required
9	Kern	14	3	3	Recommended As Project, Erosion at bridge
9	Kern	14	3	3.6	No Action Required
9	Kern	14	3.6	3.7	Recommended As Project, Slope erosion
9	Kern	14	3.7	37	No Action Required

TABLE AR5-4: MISST GROUP SLOPE INSPECTIONS (CONTINUED)

DISTRICT / PROGRAM	COUNTY	ROUTE	POSTMILE (FROM)	POSTMILES (TO)	RECOMMENDATIONS AND COMMENTS
9	Kern	14	37	37.1	Recommended As Project, Slope erosion
9	Kern	14	37.1	38.1	No Action Required
9	Kern	14	38.1	38.1	Recommended As Project, Gully erosion
9	Kern	14	38.1	39.9	No Action Required
9	Kern	14	39.9	39.9	Recommended As Project, Erosion at bridge
9	Kern	14	39.9	41.2	No Action Required
9	Kern	14	41.2	41.3	Recommended As Project, Overside drain erosion
9	Kern	14	41.3	43	No Action Required
9	Kern	14	43	43	Recommended As Project, Overside drain erosion
9	Kern	14	43	64.5	No Action Required
9	Inyo	395	115.1	93	No Action Required
9	Inyo	395	93	93	Repaired, Erosion at bridge
9	Inyo	395	93	91.3	Recommended As Project, Slope erosion
9	Inyo	395	92.7	92.7	Recommended As Project, Slope erosion
9	Inyo	395	91.3	91.1	No Action Required
9	Inyo	395	91.1	91.1	Recommended As Project, Overside drain erosion
9	Inyo	395	91.1	70.1	No Action Required
9	Inyo	395	70.1	70.1	Recommended As Project, Shoulder erosion
9	Inyo	395	70.1	59.5	No Action Required
9	Inyo	395	59.5	59.5	Recommended As Project, Slope erosion
9	Inyo	395	59.5	53.8	No Action Required
9	Inyo	395	53.7	53.8	Recommended As Project, Slope erosion
9	Inyo	395	53.8	51.8	No Action Required
9	Inyo	395	51.8	51.7	Recommended As Project, Slope erosion
9	Inyo	395	51.7	43.9	No Action Required
9	Inyo	395	43.9	43.9	Recommended As Project, Slope erosion
9	Inyo	395	43.9	42.9	No Action Required
9	Inyo	395	42.9	42.9	Recommended As Project, Overside drain erosion
9	Inyo	395	42.9	28.9	No Action Required
9	Inyo	395	28.9	28.9	Recommended As Project, Runnon from adjacent property
9	Inyo	395	28.9	0	No Action Required
9	Kern	58	112.9	129.6	No Action Required

**TABLE AR5-4: MISST GROUP SLOPE INSPECTIONS (CONTINUED)**

<b>DISTRICT / PROGRAM</b>	<b>COUNTY</b>	<b>ROUTE</b>	<b>POSTMILE (FROM)</b>	<b>POSTMILES (TO)</b>	<b>RECOMMENDATIONS AND COMMENTS</b>
9	Kern	58	129.6	129.6	Recommended As Project, Erosion at bridge
9	Kern	58	129.6	132	No Action Required
9	Kern	58	132	132	Recommended As Project, Erosion at bridge
9	Kern	58	132	139.8	No Action Required
9	Kern	58	139.8	139.8	Recommended As Project, Erosion at bridge
9	Kern	58	139.8	141.5	No Action Required
9	Kern	58	141.5	141.5	Recommended As Project, Erosion at bridge
9	Kern	58	141.5	142.8	No Action Required
9	Kern	58	142.8	142.8	Recommended As Project, Erosion at bridge
9	Kern	58	142.8	143.9	No Action Required
11	San Diego	163	2.6	3.7	No Action Required
11	San Diego	15	7.5	8.1	No Action Required

N/B Norhtbound  
S/B Southbound

**R Family (Snow and Ice Control) [SWMP Section 5.3.9]**

Maintenance District 3 developed and submitted criteria for de-icing agents in 2001. The Department continues to work cooperatively with the RWQCBs in the snowy areas of the State to refine selection criteria for de-icing agents.

**MAINTENANCE OF TREATMENT BMPS  
[SWMP Section 5.5 and 5.5.1]**

Section 5.5.1 of the SWMP prohibits chemical vegetative control measures from being used on vegetated treatment BMPs, except where the Department is directed by the California Department of Food and Agriculture to treat for invasive weeds. For this reporting period, no vegetated treatment systems were defined; therefore, the Department of Food and Agriculture did not direct the Department to use chemical vegetation control measures on vegetated treatment systems.

## OVERVIEW

Section 6 of the SWMP describes how the Department will provide education and training to its staff so that staff members will have the knowledge to properly perform their duties. Department employee training programs provide information on a variety of topics including the following:

- Storm Water Characteristics and Water Quality Issues;
- District, Division and Program assignments on implementation of the SWMP to ensure Permit compliance;
- Employee practices that could generate storm water pollution and non-storm water discharges;
- Instruction on implementing BMPs for activities or practices that are or could be sources of storm water pollution, and BMPs to eliminate prohibited non-storm water discharges or BMPs to control exempt or conditionally exempt non-storm water discharges; and
- Instruction in use of Guidelines and other manuals to select and implement BMPs.

Department training activities are discussed by functional group.

## EMPLOYEE TRAINING PROGRAM [SWMP Section 6.2]

The Department Employee Training Program is divided into three functional groups:

- Planning and Design - Develops and implements BMPs through the project planning and design phase for construction projects;
- Construction - Develops and implements BMPs for construction projects; and
- Maintenance - Develops and implements BMPs for maintaining highways and related facilities.

Information regarding training courses that have been initiated within each functional group including course titles, description of content and frequency of instruction is described in the subsequent sections. The core training materials are the Department's Storm Water Quality Handbook, which consists of Staff Guides for Maintenance, Planning and Design, Construction and Construction Contractors. An additional Handbook has been prepared as a training aid for the District Storm Water Coordinators.

## Planning and Design Employee Training [SWMP Section 6.2]

The Office of Storm Water Management – Design focused on developing new training for District Staff based upon the new PPDG during the 2001-02 reporting period. This new course,

which was provided to the Districts starting in September 2002, provided storm water training to appropriate functional areas in their Districts covering topics such as:

- Storm water overview (permit requirements, functional area responsibilities, documentation, information sources, etc.);
- Selection and design of storm water controls in the project planning and design phases;
- BMP-specific siting and design criteria; and
- Documentation requirements (the new SWDR).

In addition to developing the new PPDG training, the Department continued to present one-day courses on permanent erosion control for Design staff, two-day courses on permanent erosion control for Landscape Architect staff, and began presenting one-day courses on temporary erosion control as well. During the reporting period, three (3) one-day classes were offered in the Districts on permanent erosion control, three (3) two-day classes were held for Landscape Architects, and three (3) classes were offered on temporary erosion control.

Table AR6-1 summarizes the Planning and Design training activities.

### **Construction Employee Training [SWMP Section 6.2]**

The Construction Division provided instruction in general construction courses, storm water pollution prevention for new inspectors and resident engineers. Table AR6-2 summarizes Construction course offerings. Construction's primary training objective for the reporting period was to provide storm water training for all inspectors and resident engineers. Another major accomplishment was the development of two new storm water pollution prevention training modules for SWPPP inspectors and resident engineers.

The classes identified in Table AR6-2 have been developed to address all aspects of Construction staff storm water responsibilities.

The boot camp training program (an introductory training program for resident engineers) includes a 2½-hour to 6-hour introductory water pollution control module within a 40-hour training session provided to all new Department Construction staff. The boot camp class has included a water pollution control module since the early 1990s.

The Construction Division developed the new Water Pollution Control Inspector and resident engineer classes to train staff in the current requirements in Department and General Construction NPDES permit and SWMP documents. The SWPPP inspector class is being provided for all Department Construction staff that conducts inspections at construction sites. The resident engineer class provides instruction for resident engineers who are responsible for construction activities at Department construction sites. These training classes will provide instruction for all Construction staff, which will impact approximately 2,400 employees. In addition, the Department provided numerous classes for local transportation agencies (e.g., cities,

**TABLE AR6-1: PLANNING AND DESIGN EMPLOYEE TRAINING ACTIVITIES**

<b>COURSE TITLE</b>	<b>COURSE DESCRIPTION</b>	<b>TARGET AUDIENCE</b>	<b>COURSE LENGTH IN HOURS</b>	<b>TOTAL STAFF TRAINED</b>
Project Planning and Design Guide (PPDG) (HQ)	Overview of Permit requirements, introduction to Best Management Practices (BMPs), procedures to consider and incorporate BMPs into project designs	Design Staff, Planning Staff, other Caltrans staff and externals as requested/needed	8	150
Temporary Erosion Control for Designers (HQ)	Address the principles of erosion control, identify site specific design considerations, and the selection and design of temporary, construction site BMPs	Design Staff, Planning Staff, other Caltrans staff and externals as requested/needed	8	104
Permanent Erosion Control for Designers (HQ)	Address the principles of erosion control, identify site specific design considerations, and the selection and design of permanent erosion control (Design Pollution Prevention) BMPs	Design Staff, Planning Staff, other Caltrans staff and externals as requested/needed	8	107
Permanent Erosion Control for Landscape Architects (HQ)	Address the principles of erosion control, identify site specific design considerations, and the selection and design of permanent erosion control (Design Pollution Prevention) BMPs	Landscape Architects, other Caltrans staff and externals as requested/needed	16	100

BMP            best management practice  
 NPDES        National Pollutant Discharge Elimination System  
 PPDG         project planning and design guide  
 SWMP         Storm Water Management Plan

**TABLE AR6-2: CONSTRUCTION EMPLOYEE TRAINING ACTIVITIES**

<b>COURSE TITLE</b>	<b>COURSE DESCRIPTION</b>	<b>TARGET AUDIENCE</b>	<b>COURSE LENGTH IN HOURS</b>	<b>TOTAL STAFF TRAINED</b>
Construction Boot Camp (ENV MOD) Introduction to Water Pollution Control (District 1,2,3)	Environmental Module (archaeological discoveries, environmentally sensitive areas, permits, storm water pollution prevention, equipment wash-down, disposal sites).	New Construction Hires (Transportation Engineers)	2.5	57
Construction Boot Camp (ENV MOD) Introduction to Water Pollution Control (District 4)	Environmental Module (archaeological discoveries, environmentally sensitive areas, permits, storm water pollution prevention, equipment wash-down, disposal sites).	New Construction Hires (Transportation Engineers)	2.5	
Construction Boot Camp (ENV MOD) Introduction to Water Pollution Control (District 6)	Environmental Module (archaeological discoveries, environmentally sensitive areas, permits, storm water pollution prevention, equipment wash-down, disposal sites).	New Construction Hires (Transportation Engineers)	2.5	50
Construction Boot Camp (ENV MOD) Introduction to Water Pollution Control (District 9)	Environmental Module (archaeological discoveries, environmentally sensitive areas, permits, storm water pollution prevention, equipment wash-down, disposal sites).	New Construction Hires (Transportation Engineers)	2.5	
Construction Boot Camp (ENV MOD) Introduction to Water Pollution Control (District 10)	Environmental Module (archaeological discoveries, environmentally sensitive areas, permits, storm water pollution prevention, equipment wash-down, disposal sites).	New Construction Hires (Transportation Engineers)	2.5	
Construction Boot Camp (ENV MOD) Introduction to Water Pollution Control (District 11)	Environmental Module (archaeological discoveries, environmentally sensitive areas, permits, storm water pollution prevention, equipment wash-down, disposal sites).	New Construction Hires (Transportation Engineers)	2.5	
Construction Boot Camp (ENV MOD) Introduction to Water Pollution Control (District 12)	Environmental Module (archaeological discoveries, environmentally sensitive areas, permits, storm water pollution prevention, equipment wash-down, disposal sites).	New Construction Hires (Transportation Engineers)	2.5	

**TABLE AR6-2: CONSTRUCTION EMPLOYEE TRAINING ACTIVITIES (CONTINUED)**

<b>COURSE TITLE</b>	<b>COURSE DESCRIPTION</b>	<b>TARGET AUDIENCE</b>	<b>COURSE LENGTH IN HOURS</b>	<b>TOTAL STAFF TRAINED</b>
Water Pollution Control Compliance on Construction Sites. (District 1,2,3)	The course is intended to increase the familiarity and understanding of resident engineers of water pollution control issues on construction sites. The responsibilities of the resident engineer for management of the water pollution control program from project beginning to project close-out.	Resident Engineers	6	68
Water Pollution Control Compliance on Construction Sites. (District 5)	The course is intended to increase the familiarity and understanding of resident engineers of water pollution control issues on construction sites. The responsibilities of the resident engineer for management of the water pollution control program from project beginning to project close-out.	Resident Engineers, Construction Inspectors,	6	34
Water Pollution Control Compliance on Construction Sites (District 7)	The course is intended to increase the familiarity and understanding of resident engineers of water pollution control issues on construction sites. The responsibilities of the resident engineer for management of the water pollution control program from project beginning to project close-out.	Resident Engineers	8	84
Inspecting for Water Pollution Control on Construction Sites (District 1,2,3)	The course provides basics of water pollution control on construction sites. There is an emphasis on regulations, permit requirements, special provisions, best management practices and their application and installation, and conducting site compliance inspections.	Water Pollution Control Inspectors	8	11

**TABLE AR6-2: CONSTRUCTION EMPLOYEE TRAINING ACTIVITIES (CONTINUED)**

<b>COURSE TITLE</b>	<b>COURSE DESCRIPTION</b>	<b>TARGET AUDIENCE</b>	<b>COURSE LENGTH IN HOURS</b>	<b>TOTAL STAFF TRAINED</b>
Inspecting for Water Pollution Control on Construction Sites (District 4)	The course provides basics of water pollution control on construction sites. There is an emphasis on regulations, permit requirements, special provisions, best management practices and their application and installation, and conducting site compliance inspections.	Resident Engineers, Construction Inspectors, Structures Representatives	6	469
Inspecting for Water Pollution Control on Construction Sites (District 5)	The course provides basics of water pollution control on construction sites. There is an emphasis on regulations, permit requirements, special provisions, best management practices and their application and installation, and conducting site compliance inspections.	Construction Inspectors, Structures Representatives, Maintenance Staff	6	22
Inspecting for Water Pollution Control on Construction Sites (District 7)	The course provides basics of water pollution control on construction sites. There is an emphasis on regulations, permit requirements, special provisions, best management practices and their application and installation, and conducting site compliance inspections.		8	258
Construction Site Dewatering (District 4)	Information not available.	Resident Engineers, Construction Inspectors, Structures Representatives	6	20
Sample and Analysis Plan Training (District 5)	Introductory course on sample and analysis plan requirements	Resident Engineers, Construction Inspectors, Contractors	4	29
District 7 SWPPP Training (District 7)	This course provides the background on the Caltrans' Storm Water Pollution Prevention Program, the law and law suits, NPDES permit, Best Management Practices (BMPs) and their application to construction sites. The does and don'ts of BMPs are addressed.	Transportation Engineers	8	21

**TABLE AR6-2: CONSTRUCTION EMPLOYEE TRAINING ACTIVITIES (CONTINUED)**

ENV MOD	Environmental Module
N/A	Not Applicable
RE	Resident Engineer
SWPPP	Storm Water Pollution Prevention Plan
TE	Transportation Engineer

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counties, and district transportation agencies) in 2002. Since most local agencies adopt Department requirements to construct roadways, the local agencies requested the Department provide this training to local agency staff.

The Construction Division is planning to conduct additional classes in storm water monitoring, sampling and advanced water pollution control measures. The storm water sampling class will train Department and contractor staff in the requirements and procedures necessary to comply with the new General Construction Permit requirements.

### **Maintenance Employee Training [SWMP Section 6.2]**

The Maintenance Division has received instruction in storm water and hazardous waste and hazardous materials compliance requirements through the course titled Hazmat Storm Water 2000-2002. In addition, Maintenance has been presented with a summary of SWMP maintenance requirements through a handout titled Caltrans SWMP Maintenance Handout, and instruction and a video for supervisors on the Caltrans Storm Water Program. Table AR6-3 summarizes courses provided to the Maintenance Division to date.

A new course was developed to provide training for Department Maintenance staff. This course includes a revised Maintenance Staff Guide.

### **OUTREACH TO CONSTRUCTION CONTRACTORS [SWMP Section 6.3]**

The Department has developed relationships with the Associated General Contractors of California (AGC California) and Engineering and Utility Contractors Association (EUCA) to jointly provide training to construction contractors. The class, Storm Water Pollution Prevention Plan Training, was developed in 2000 and 2001 to instruct contractors in the proper procedures to comply with Department requirements as specified in Department NPDES permits, specifications and standard special provisions, and manuals related to water pollution control requirements. Four contractor classes were provided in July 2001. Based on the course evaluations, the contractors stated that the training was extremely beneficial.

The Construction Division has two Web pages to educate and provide information on the Construction Storm Water Program for the public, Department staff, and our contractors. The Department's Construction Web page, located at the following address, <http://www.dot.ca.gov/hq/construc/stormwater.html>, includes information on the Department's Construction storm water program and documents available for use on Department projects. Free downloadable versions of Department Construction Manuals are made available on the Web site including the following: Construction Site Best Management Practices Manual, Storm Water Pollution Prevention and Water Pollution Control Pollution Program Preparation Manual and the Contractor's Guide and Specifications. An electronic template is also available to assist contractors in their preparation of either SWPPPs or WPCPs. As of June 30, 2001, over 31,000 people have visited this Web page.

**TABLE AR6-3: MAINTENANCE EMPLOYEE TRAINING ACTIVITIES**

<b>COURSE TITLE</b>	<b>COURSE DESCRIPTION</b>	<b>TARGET AUDIENCE</b>	<b>COURSE LENGTH IN HOURS</b>	<b>TOTAL STAFF TRAINED</b>
Storm Water Management	Review of SWMP and Maintenance BMPs	Maintenance staff	4	35
Storm Water Just Passing through	Training video tape and Q/A workbook for storm water compliance.	Maintenance staff	2	Training material provided to all maintenance crews
Hazmat Storm Water 2000-2002	Compliance with storm water hazardous waste/material requirements	Maintenance staff D-04	2	175
Hazmat Storm Water 2000-2002	Overview of the CT Permit, SWMP & Acronyms, presentation from the CVRWQCB, presentation from Central Region NPDES, "Just Passing Through" video, presentation from HQ maintenance storm Water, a closer look at the permit and SWMP, discussed District 10 "Incidents: discussed MISST and erosion control, viewed a straw wattle installation video, discussed facility and MAPP inspections, discussed BMPs and BMP tailgate meetings, discussed culvert and drain cleaning, administered a 20 question test.	Maintenance staff	6	284
First Responder / Storm Water	Compliance with storm water and hazardous waste/material requirements	Maintenance Staff & Shop Staff D-05	8	308
First Responder / Storm Water	Addresses compliance with haz-mat laws and the Clean Water Act	Maintenance region manager to lead worker	4	25
Storm Water Quality	Clean Water Act compliance	Worker/manager	6	50
BMP Tailgate Meetings	Storm Water Management Plan Compliance	Worker/manager	13 hr/yr	300
Hazardous Drain Cleaning	HAZWOPER training / handling hazardous drain waste	Worker/lead worker	4	6
Confined Space	Confined drain cleaning	Worker/ superintendent	2	50
Offsite Meeting	Storm Water Management Plan compliance overview	Supervisor/DDD	1	50

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The Department also has an additional Web site (<http://www.swpppquestions.com>) as an online forum for questions and answers to construction-related storm water issues open to Department staff, contractors and the general public. The Department's Storm Water Task Force monitors the Web site and provides responses to forum inquiries. The goal of this Web site is to encourage a discussion of storm water issues at construction sites and improve the implementation of BMPs at Department construction sites.

### **PUBLIC EDUCATION PROGRAM [SWMP Section 6.4]**

As part of the compliance requirements for the NPDES Permit, the Department submitted to the SWRCB a Plan for Development and Implementation of a Public Education Program. On September 5, 2001, the SWRCB approved the Department's Plan for Development and Implementation of a Public Education Program.

The Department uses a variety of methods to educate the public about the importance of storm water quality. The goals of the existing program are pollution prevention and source reduction. Objectives of the Public Education Program include:

- Informing the public regarding the storm water quality issues that pertain to Department properties, facilities and activities; and
- Encouraging public behavior changes regarding the release of potential pollutants (e.g., litter, spilled loads and oil leaks).

The Department's storm water outreach program consists of a variety of written materials, monthly and quarterly bulletins, a Web site, workshops, storm drain stenciling, anti-litter signs, a statewide Adopt-a-Highway Program, along with many local municipality partnerships.

The Department continues to research and deploy new public education strategies within the public education program. An expanded statewide pollution prevention and public education program will be considered following the completion of the Department's Public Education Research Study.

The Department maintains a Web site (<http://www.dot.ca.gov/hq/env/stormwater/index.htm>) for the storm water management program that is accessible through the Department's Web page. This site provides information on all storm water outreach activities, including brochures, bulletins and workshops. Public outreach bulletins addressing specific Construction and Maintenance issues are also available.

### **Summary of Districts' Public Education Efforts [SWMP Section 6.4]**

#### **District 1**

The Adopt-a-Highway Program provides opportunities for public education in various forms. Handouts contain information pertaining to storm water pollution prevention, and the Adopt-a-

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Highway Coordinator fields questions on a regular basis concerning how litter impacts water quality. The District takes part in the yearly Coastal Cleanup Day and stresses the impact litter has on water quality. District 1 has had a display for the last two years at the Humboldt County Fair on the Adopt-a-Highway Program, which included a display on litter laws and the effects of highway litter upon highway storm water runoff. Also, a brochure on recycling was disseminated.

Maintenance staff has nearly completed the stenciling of drainage inlets at all of District 1's vista points, park and ride lots, maintenance facilities, commercial inspection facilities and safety roadside rest areas, in accordance with Section 6.4 of the SWMP. This involves a total of 61 facilities to which the public has access, as not all drains have drainage inlets or directed drainage. Each drainage inlet is stenciled with a set of stencils that state, "Sweep It Up, Don't Wash It Down" or "No Dumping, It Kills."

Drain inlets along conventional state highways (at grade, nonfreeway) passing through incorporated and unincorporated cities and communities of 10,000 or more population in District 1 have all been stenciled. Basically, these are the cities of Eureka (U.S. Highway 101) and Arcata (State Route 255).

Inspectors are active in requiring that encroachment permittee's consider storm water pollution in projects involving the Department's rights-of-way. The NPDES office reviews permit applications, and makes recommendations for conditions of the permit and provides references to Caltrans storm water information.

### **District 2**

The Adopt-a-Highway program provides opportunities for public education in various forms. Handouts contain information pertaining to storm water pollution prevention, and the Adopt-a-Highway Coordinator routinely fields questions concerning how litter impacts water quality. The District sponsors a cleanup throughout the District to coincide with the yearly Coastal Cleanup Day and stresses the negative impact litter has on water quality.

Encroachment permit inspectors require permittees to consider storm water pollution in projects involving the Department's rights-of-way. The NPDES office reviews permit applications, makes recommendations for permit conditions and provides references to Department storm water information.

District 2 is actively working on its stenciling program. Storm water awareness stencils titled, "Sweep It Up, Don't Wash It Down" or "No Dumping, It Kills" have been installed at most District 2 Maintenance facilities.

District 2 Maintenance personnel have met with members of the public and discussed the need for water pollution control measures and how those measures could be implemented.

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In addition to the opportunities for public education detailed above, District 2 also takes advantage of project informational meetings to explain why storm water treatment and specialized erosion control measures are being included in upcoming projects.

### **District 3**

The Adopt-a-Highway Program provides opportunities for public education in various forms. Handouts contain information on storm water pollution prevention, and the Adopt-a-Highway Coordinator routinely fields questions concerning how litter impacts water quality. The District sponsors a cleanup to coincide with the yearly Coastal Cleanup Day and stresses the negative impact litter has on water quality.

Encroachment permit inspectors require permittees to consider storm water pollution in projects involving the Department's rights-of-way. The NPDES office reviews permit applications, makes recommendations for permit conditions and provides references to Department storm water information.

District 3 is actively working on its stenciling program. Storm water awareness stencils titled, "Sweep It Up, Don't Wash It Down" or "No Dumping, It Kills" have been installed at most District 3 Maintenance facilities.

In addition to the opportunities for public education detailed above, District 3 also takes advantage of project informational meetings to explain why storm water treatment and specialized erosion control measures are being included in upcoming projects. District 3 has shared new specifications and manuals with other agencies and the public.

### **District 4**

The intent of the District's Public Information Program (PIP) in regards to storm water is to create an awareness among Department employees, commercial entities, and the general public of the potential impacts of their activities on storm water quality, receiving water bodies, and the Department rights-of-way. The PIP provides a variety of ways to educate its target groups (i.e., the traveling public) about the importance of preventing impacts to storm water and the efforts of the Department to manage storm water. The storm water goals of the PIP are to:

- Provide information on storm water runoff as it relates to Department facilities and activities; and
- Encourage changes in public behavior that minimize impacts on water quality.

The goals of the PIP conform to the mission of District 4's Public Awareness Campaign (PAC) Team, which is an employee-based effort created to enhance the Department's image. Many of the activities undertaken by the PAC Team will be used to achieve the PIP storm water goals.

The PIP proposes to use public media (newsletters, pamphlets, etc.) to educate its target audience on how to help prevent storm water impacts and how to report illegal discharges/dumping within the Department's rights-of-way.

**Newsletters:** The District developed two articles addressing storm water news and issues for publication in the District newsletter, Fourword. This newsletter is published quarterly and distributed to all District employees.

**Pamphlets:** The District developed a storm water pollution prevention pamphlet approximately three years ago as apart of the District’s previous storm water permit obligation. This pamphlet contains a variety of useful facts and information regarding storm water. The pamphlet provides advice to motorists on properly maintaining their vehicles, disposing of used vehicle fluids, and the advantages of alternative transportation modes. The storm water pollution prevention pamphlet available to the public at the District and project Public Information Offices. Also, the pamphlet is available at seven Bay Area Department of Motor Vehicles offices. Through a partnership established by the PAC Team, displays containing the pamphlet are located in Oakland, Concord, Walnut Creek, San Francisco, Corte Madera, Santa Clara and San Jose. The displays are restocked and maintained by members of the PAC Team.

**Activity Book:** District 4 employees have developed an activity book for children that includes three pages on storm water and water quality. The book was developed approximately two years ago. A copy of the activity book is available at the District Public Information Office and it is also posted on the Department’s Web site.

**County Fairs:** The Public Affairs Coordinator works with the Employee Involvement Committees to provide storm water information and materials, such as the District Storm Water Pamphlet and the activity book, to the public at local county fairs.

District 4 has also implemented an Adopt-a-Highway Program in cooperation with numerous public groups. The program benefits storm water quality by collecting litter and planting trees and wildflowers to reduce erosion. A variety of public groups participate in the program, including the Kiwanis, Lions, and other service clubs; ranchers, businesses, and business groups; Chamber of Commerce, Jaycess, schools, youth and church organizations, fraternities, and sororities. Many groups apply and are placed on the waiting list until the location they are interested in becomes available. The volunteer effort is summarized in Table AR6-4.

**TABLE AR6-4: DISTRICT 4 ADOPT-A-HIGHWAY  
VOLUNTEER GROUPS AND INDIVIDUALS**

<b>ACTIVITY</b>	<b>JANUARY 2002</b>	<b>JUNE 2002</b>
Litter removal	373	386
Graffiti removal	67	67
Tree and shrub planting	16	15
Vegetation management	2	3

**District 5**

District 5 continued to participate in public education activities throughout the reporting year.

The following activities in addition to the Statewide public education efforts were completed during the reporting year:

- The District provided packets that contained examples of storm water handouts and brochures to local municipalities.
- The District made storm water brochures and handouts available to the District Offices.
- District Maintenance staff provided storm water information and “Only Rain Down the Drain” note pads at the Mid-State Fair in Paso Robles. Staff was also on hand to answer storm water related questions.
- The District completed storm drain stenciling activities on all drain inlets that are accessible to the public. The markers say “No Dumping Drains to Waterways.”
- The District continued its very active Adopt-A-Highway Program. This year the number of volunteer groups increased from 279 to 290 in the year 2001. The volunteer groups remove trash and debris from the highway.
- The District continued to utilize volunteer groups for erosion control activities such as tree and shrub planting, vegetation management and wildflower planning.
- The District Storm Water Coordinator provided storm water information to the County of Santa Barbara’s Clean Water Project.
- The District Storm Water Coordinator participated in the Central Coast Chapter APWA Public Works Storm Water Seminar on September 18, 2002.
- The District Construction Storm Water Coordinator attended three meetings of the AGC, a contractor’s association.
- The District forwards the Water Quality News Flash to all local municipalities within the District.
- The District NPDES Coordinator responded to many questions from the public and local entities throughout the year.
- Many local municipalities were invited to and attended training courses given in the District.
- During the project development process, the District uses project team meetings as an opportunity to inform local entities of storm water pollution prevention requirements.

### District 6

The Department Storm Water Management Program brochure was made available at the District 6 Public Information Office. Storm water drain inlet stenciling has been completed on some State highway surface streets in Fresno and Bakersfield. In November 2001, the Annual Fog Event was held in cooperation with the partnering agency, the California Highway Patrol. Storm water literature was passed out along with the new Fog Brochure.

Storm water literature was distributed at the Groundbreaking Ceremony for the Coalinga Los Gatos Bridge Project in March 2002. Approximately 120 people attended and literature was passed out to the media in press packets.

The District 6 Adopt-a-Highway Program is a continual reminder to participants and to the public of pride in their public property and of the unacceptability of proliferation of litter. Planting trees and wild flowers reduces erosion. The program includes contact with many public groups (Kiwanis, Lions, and other service clubs; ranchers, businesses, and business groups; Chamber of Commerce, Jaycess, schools, youth and church organization, fraternities, and sororities.). Many groups apply and are placed on the waiting list until the location they are interested in becomes available. The volunteer effort is summarized in Table AR6-5.

**TABLE AR6-5: DISTRICT 6 ADOPT-A-HIGHWAY  
VOLUNTEER GROUPS AND INDIVIDUALS**

<b>ACTIVITY</b>	<b>DECEMBER 2001</b>	<b>JUNE 2002</b>
Litter removal	336	282
Tree and shrub planting	3	3
Vegetation management	2	1
Wildflower planting	1	1

Two Adopt-A-Highway Volunteer-of-the-Year Ceremonies were held during April and May at which storm water literature was distributed and included in media packets for the press. One ceremony was held in Bakersfield with 30 people in attendance – and one in Fresno with 20 attendees. One organization and two individuals received the Volunteer-of-the-Year award for showing pride in their community by cleaning up more than the frequency required and for being in the program for over four years.

The Public Information Office held four Mosaic Mural Dedication Ceremonies during May through July for mural art designed and installed on Highway 99 in Fresno County. Ceremonies were held at four high schools (Fresno High, Bullard High, Central High, and San Joaquin Memorial High Schools) dedicating these murals. Storm water literature was passed out to parents and students to educate them on the importance of keeping storm water clean.

### **District 7**

District 7 uses a variety of methods to educate the public about the importance of managing storm water. This consists of a variety of written materials, bulletins, Web sites, workshops and the Department Adopt-a-Highway Program. The written material is designed to appeal to the general public while providing technical information on selected Department projects and activities. District 7 installed “No Dumping” and “Litter Free” signs at selected locations on highways and freeways. Stenciled warnings prohibit discharges to drain inlets at park-and-ride lots, rest areas, vista points and other areas with pedestrian traffic.

The District conducts coordination meetings as necessary or appropriate with RWQCB, APWA, BIA, LACDPW, SCAG, MTA, VCFCD, and other local agencies to coordinate implementation of storm water issues, including public education. One of the events was with the Los Angeles

and San Gabriel River Watershed Council. District 7 participated in their storm water sampling of the Los Angeles River. Storm water pamphlets were distributed during the sampling event as part of the outreach.

The District also informs the public regarding storm water quality issues pertaining to the Department's property, facilities, and activities by participating in public events such as the Los Angeles County Fair and demonstration of the Storm Water Model in elementary schools.

### District 8

In fall 2001, District 8 staff made storm water presentations to each of the District's two primary "Local Partners," the San Bernardino Association of Governments (SANBAG) and the Riverside County Transportation Commission (RCTC). SANBAG and RCTC are the sales tax measure authorities in San Bernardino and Riverside Counties. They sponsor numerous transportation improvement projects on the State highway system. These projects are, of course, subject to the various provisions of the Department's NPDES permit. The presentation audiences include representatives of the incorporated city governments and county governments to those agencies.

In December 2001, District staff made a presentation to the Professional Liaison Committee, an ad hoc group composed of local consultant engineers, SANBAG and RCTC engineers, District 8 engineering managers and local city engineers. The theme of this presentation was the pros and cons of infiltration basins. That same month, District 8 assisted District 9 in presentations and training in District 9.

In January of 2002, A presentation was made to the Inland Empire Chapter of the APWA. The presentation addressed the Department's NPDES permit, Construction BMPs, and approved Treatment BMPs.

In April 2002, District 8 participated in the Environmental Expo, held at California State San Bernardino. Staff from the District Storm Water Unit demonstrated the effects of all-to-common activities (excessive pesticide and fertilizer use, dumping used motor oil in storm drains, poor erosion control practice, etc.) on non-point source storm water pollution using the District's Enviroscope watershed model. Handouts describing the storm water program were distributed. Also that month the District Storm Water Unit again presented the Enviroscope watershed model as part of the District's "Bring Your Child to Work Day." The model was used by other Districts at county fairs at various times throughout the fiscal year.

### District 9

In April 2002, District 9 along with the Sierra Club, the Audubon Society, and other members of the community joined together to clean up litter along the banks of the Owens River.

In December 2001, District 9 hosted an all day Storm Water Awareness training for all federal, state, tribal, and local agencies within the District 9 boundaries.

Encroachment permits now incorporate the following storm water language for all new applicants, when necessary, “Coordination and consultation will need to continue to identify and address any potential contamination run-off onto state right-of-way facilities.”

The District has implemented its Storm Drain Stenciling Program. The following phrases, “Sweep It Up! Don’t Wash It Down” and “No Dumping! It Kills,” are being stenciled throughout District 9 maintenance stations, park-and-ride lots, and roadside rest areas that are heavily used by the public.

Copies of the Department’s Storm Water Management Program brochures are available for the public at the District Public Information Office.

### District 10

The Department’s Storm Water Management Program brochure has been made available to the public at District 10 maintenance stations and permit offices.

Storm water awareness thermoplastic stencils titled, “Sweep It Up! Don’t Wash It Down” and “No Dumping! It Kills” are being installed at District 10 maintenance stations, park-and-ride lots and safety roadside rest areas.

The Department Adopt-a-Highway Program is a continual reminder to participants and to the public of pride in their public property and of the unacceptability of proliferation of litter. Planting trees and wild flowers also significantly reduces erosion.

### District 11

The District 11 public educational activities cover a range of programs and training opportunities to the public and contracting community, from supporting mass media campaigns to hosting/supporting technical storm water workshops.

Highlights included:

- Participating in “Think Blue,” the regional storm water pollution prevention mass media campaign promoting beach and ocean quality that was re-instated this year. The District is reviewing the baseline public outreach survey results and assisted in selecting contractors to develop and run the TV and radio campaign. The campaign aired in mid-October 2001 in the City of San Diego.
- Participating in region-wide public education with all San Diego County municipal co-permittees on a Public Education and Outreach Workgroup focused on developing a regional theme and ensuring continuing regional coordination of public education and outreach efforts.
- The District hosts brown bag lunch presentations for erosion and sediment control technologies approximately once per quarter.

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- Participating in Project Clean Water, which includes all 18 cities, the Port of San Diego, environmental groups, consultants and the public as part of the County of San Diego-led Technical Advisory Committees (TACs). The Department participated in the Science and Technology, Land Development, Construction, and Public Education TACs during Phase I and soon will be actively involved in the new Phase II Data & Information Management TAC and the continuing Public Education TAC.
- District 11 initiated special coordination meetings with the co-permittees through SANDAG, a regional planning association contracting with District 11, to coordinate and expand the Municipal Separate Storm Water System (MS4) drainage geographical information system (GIS) database.

### **District 12**

District 12 was involved locally with the Orange County Children's Water Education Festival (CWEF). It is hosted annually by the Orange County Water District and Disneyland to teach students to protect and preserve groundwater and drinking water resources. The 2002 CWEF was the largest in the nation and reached over 5,500 students, teachers and parents. During the two-day event, participants learned about every aspect of water and the environment and how to protect it. Several leading businesses and government agencies participated in the presentation of the activities. Participating for its third year, District 12 hosted an activity titled "The School of Fish" that informed the students of the effects of litter on storm water runoff from Department facilities as well as the surrounding communities. The activity contained a short lecture covering types of waste found on State highways followed by a relay race involving litter and storm water. District 12 plans on participating in the annual event next year.

Throughout the year local elementary, middle and high school teachers request the District 12 NPDES storm water unit staff to make presentations to their classes for events such as career days or Earth Day celebrations. At these events we are able to introduce students to the many consequences that water pollution has on the environment and how to prevent pollutant releases in the future. We also introduce the many practices that the Department follows to ensure that the pollution on the roads and highways is kept to a minimum. In our presentations the students get a visualization of how the different pollutants in the environment get transported via storm water runoff. With the use of the Enviroscape model, we are able to simulate a rain event to show the transport of pollutants to the storm drain system, streams and oceans.

District 12 has taken every opportunity to inform the local public by having a storm water representative at various transportation fairs within the county and within the District office facility. In May 2002 the Disneyland Resort held a transportation fair at their offices for their employees. The Department hosted a booth to provide general information as well as the Storm Water Program. Storm water information handouts were provided and representatives of the NPDES unit attended to answer questions. The District 12 office shares a building with several businesses such as Samsung Inc., Con Agra Foods, Home Base and smaller companies. This building also houses a large cafeteria where a large percentage of employees from these businesses enjoy their lunch. On an annual basis, the Department hosts a booth at the entrance to

the cafeteria where general as well as storm water information is handed out to inform the community of Caltrans' progress on transportation projects and the local environment.

### **Public Education Research [SWMP Section 6.4.1]**

The Department entered the second year of its public education research study to determine the effectiveness of public education in reducing the amounts of litter discharged from Department freeway and highway storm drains in the Fresno Metropolitan Area (District 6). The study is designed to develop and implement the strategies and methods needed to increase public awareness of the environmental impacts of littering on public property/highways, so the Department can develop an effective statewide program. During the winter of 2002, storm water sampling and analysis at the 16 sites continued. In September 2001, the Caltrans Plan for the Development of the Storm Water Public Education Program was approved by the SWRB.

The Department completed the following tasks during our pre-mass media campaign development process.

- Completed a worldwide literature review of public education programs.
- Completed and published a pre-mass media campaign public opinion survey in English and Spanish.
- Completed and published a litter characterization study of the Fresno Metropolitan Area.
- Completed a visual observation study of the litter within the Fresno Metropolitan Area.
- Formulated the Department's MMS database litter counts into a baseline, to evaluate historical litter data for the last five years in the Fresno Metropolitan Area of District 6.
- Developed a mass media public education program and tested billboard concepts in English and Spanish at the Fresno County Fair in October of 2001.
- Tested radio ads and messages to determine if the audience fit the Fresno demographic characteristics.
- Recorded three 60-second radio announcements in English and Spanish (February 2002).
- Rolled out the mass media public education campaign at a press conference/media event held at the District 6 main office (February 2002).
- The "Don't Trash Fresno" mass media public education campaign was highly successful. Highlights included the following:
  - Governor Davis acknowledged the "Don't Trash Fresno" campaign.

- On February 15, 2002, the State Assembly passed a resolution acknowledging the “Don’t Trash Fresno” campaign.
- On February 15, 2002, the City of Fresno passed a resolution adopting the “Don’t Trash Fresno” campaign.
- In February 2002, 15 campaign “Don’t Trash Fresno” Billboards were placed in the Fresno Metropolitan Area.
- In March 2002, one hundred gas stations in the Fresno Metropolitan Area had gasoline pump toppers stating “Don’t Trash Fresno”.
- In March 2002, the Smith and Jones public service announcement video “Don’t Trash Fresno” was filmed.
- In April 2002 the “Don’t Trash Fresno” Perez and Valdez public service announcement video was filmed in Spanish.
- In April 2002, United Artist Theaters, and the Edward Theaters began showing “Don’t Trash Fresno” cinema slides during cinema breaks.
- In May 2002, the Department partnered with the Fresno Grizzlies baseball team. The sponsorship included three “Don’t Trash Fresno” nights at the ball game, stadium signage, media coverage of the campaign, and litterbag hand outs. “Don’t Trash Fresno” logos were placed on the Grizzlies baseball players team gear. The games were announced on two radio sports stations and the campaign message was played during the games.
- In May 2002, the Department completed the Public Education Research Study Brochure, Pollution Free Water Logo stickers and “Don’t Trash California” bumper stickers.
- In June 2002, the Department cosponsored a zoo event with the Fresno Metropolitan Flood Control District.
- In June 2002, the Department partnered with the District 6 public affairs office to distribute campaign materials at the various events the District attends.

### Other Resources (SWMP 6.4.2)

The Department pursued other resources to partner with and to assist in public education outreach. The best example of the Department’s outreach efforts is the Adopt-A-Highway Program. The Department has continued to successfully adopt most of the highways for citizen litter pickup. As a result of these efforts, hundreds of bags of litter were collected from State highway rights-of-way by citizen adopters.

The Department Storm Water Program represents the Department at the Interagency Coordinating Committee (IACC) for California’s Nonpoint Source Plan. This committee has representatives from all of California’s state agencies and departments that grapple with NPDES

permitting issues. The meetings focus on interagency coordination along with meeting California Environmental Protection Agency's Nonpoint Source Plan's goals.

The storm water program staff attends conferences, meetings and workshops on a multitude of storm water public education topics to gather partnering information and network with other storm water and environmental professionals.

## **Information Brochures (SWMP Section 6.4.3)**

The Department's Storm Water Program published and distributed the following brochures and flyers:

- Storm Water Public Education Research Study;
- BMP Retrofit Pilot Studies Technical Information Brochure;
- Inserts included flyers on the following information:
  - Extended Detention Basins
  - Drain Inlet Inserts
  - Infiltration Basins and Trenches
  - Oil/Water Separator
  - Media Filters
  - Multi-Chambered Treatment Trains (MCTT)
  - Biofiltration Swales and Strips
  - Continuous Deflection Separators (CDS)
  - Wet Basin
- Summary Table of BMP Site Characteristics;
- Map of BMP Pilot Retrofit Sites
- BMP Retrofit Pilot Studies Brochure;
- Storm Water Management Program Brochure
- Storm Water Compliance Program Brochure;
- Pathogens in Storm Drain Discharges Brochure;
- Storm Water Program Internet Water Quality Planning Tool Brochure;
- Storm Water First Flush Study Brochure;
- Storm Water Data Management Brochure

The Department has a large storm water display that many Districts used as a backdrop during the various county fairs and public seminars. The Districts themselves partnered with many

internal programs to be able to deploy Department storm water issues and send storm water educational messages to the general public.

## STORM DRAIN STENCILING [SWMP Section 6.4.6]

The Department stencils educational messages at highway facility storm drain inlets including park-and-ride lots, rest stops and vista points. The messages are intended to educate the public about pollution due to storm water runoff. Storm drain stenciling will be implemented at or near communities of 10,000 or greater population, or in communities with a population of less than 10,000 if the area is covered by a MS4 permit. Table AR6-6 summarizes progress to date by district, number of drains stenciled, location and entity performing stenciling.

**TABLE AR6-6: STORM DRAIN STENCILING--PROGRESS REPORT**

<b>DISTRICT/ PROGRAM</b>	<b>STORM DRAIN STENCILING STATUS</b>	<b>OPTIONAL COMMENT</b>
1	61 facilities stenciled to date	Stenciling is nearly complete.
2	85% complete	Maintenance yards recently repaved need stencils. District 2 does not currently have MS4 cities, but will next year. Funding for installation in the MS4 areas has been requested.
3	A total of 261 Maintenance Stations, Vista Points, Park and Ride lots, Safety Roadside Rests and CHP Scales have been stenciled during the FY 01-02	Actively working on coordination with the municipalities to identify drains that need to be stenciled.
4	Park-n-Ride, rest areas, vista points, weight stations and maintenance yards stenciled - no MS4 stencils placed	Most MS4s have some type of stencils in place.
5	Completed	All drains in all cities or towns in D5 are marked.
6	100% complete	D-6 North region facilities
6	70% complete	D-6 North region MS4 area
6	90% complete	D-6 South region facilities
6	35% complete	D-6 South region MS4 area
7	719-stencilled 1259-not stencilled	
8	Checked and Re-Stenciled All Facilities	Stenciling complete.
9	Storm drain stencils have been placed at park and ride lots, rest areas, vista points and CT maintenance facilities.	District 09 has no MS4 drains
10	All drain inlets in district 10 MS4 areas have been counted and locations identified. We are currently working with a vendor on style, size and cost of stencils. District 10's new storm water superintendent (Kathy McCoy) is working on a plan for installation of these stencils. Four hundred and ninety-four drain inlets have been identified in the MS4 areas of district 10 that need to be stenciled.	

**TABLE AR6-6: STORM DRAIN STENCILING--PROGRESS REPORT (Continued)**

11	Rest areas, Maintenance yards, vista points complete	D11 has a few park and ride lots to finish.
12	826 ea. Drains Stenciled	Stenciled SR1, SR39, SR72, SR90, and park and ride lots.

The Department is to complete the stenciling program for all existing storm drains by January 1, 2005. The Maintenance Department will either maintain the stencils or will delegate authority to local agencies.

### OVERVIEW

Section 7 of the SWMP describes the monitoring and research program implemented by the Department to provide information on storm water pollution, evaluate existing and potential BMPs and meet the monitoring and assessment requirements of the SWMP and Permit.

The monitoring and research program is currently organized into the following four areas of focus:

- Storm Water Treatment Technology Research;
- Monitoring and Water Quality Research;
- Erosion Control Research; and
- Watershed Planning

The Department has a team of experts working in each of these areas. Table AR7-1 provides a summary and status of ongoing Storm Water Treatment Technology activities in these four areas. More detailed information regarding the Storm Water Treatment Technology Research activities is provided in the Caltrans Storm Water Treatment Technology Research Status Report, April 2003 and the Caltrans New Technology Report, April 2003, both of which are attached to this report. In addition, more detailed information regarding the Monitoring and Water Quality Research, Erosion Control Research, and the Watershed Planning activities is provided in the Storm Water Monitoring Program: 2002 Annual Research Summary Report (April 2003), also attached to this report.

**TABLE AR7-1: SUMMARY OF DEPARTMENT RESEARCH ACTIVITIES – JANUARY 2003**

Study	# of Sites	District	RWQCB	Status
<b>Storm Water Treatment Technology Research Team – Pilot Studies</b>				
BMP Retrofit Pilot Program	38	7, 11	LA, SD	The purpose of the studies is to determine the treatment effectiveness and the operations and maintenance costs associated with the BMPs. In 1997, Caltrans began an extensive program to test selected structural BMPs in District 7 (Los Angeles) and District 11 (San Diego). This \$30-million-dollar research effort involved retrofitting selected Caltrans facilities—freeways, interchanges, park and ride lots and maintenance stations—and monitoring them for three storm seasons to determine cost effectiveness and water quality benefits. Technologies tested include Extended Detention Basins, Infiltration Basins, Infiltration Trenches, a Wet Basin, Media Filters, Bio Swales, Bio Strips, Drain Inlet Inserts, Continuous Deflection Separators, Multi-Chambered Treatment Trains, and an Oil/Water Separator. Monitoring is complete and final reports are being prepared.
District 12 SR73 Pilot Program	30	12	SD, SA	The purpose of the studies is to determine the treatment effectiveness and the operations and maintenance costs associated with the BMPs. Design, construction or operation, maintenance and monitoring are currently underway for approximately 30 BMPs along the San Joaquin Hills Transportation Corridor (SR73) in Orange County. There will be 17 modified detention basins, 3 new gross solids removal devices, 3 compost storm filters, one bioretention filter, 2 constructed wetlands pilots, and several potential sand filters. The compost storm filter pilots are online and the remaining pilots will come online from Spring 2003 to spring 2004.

**TABLE AR7-1: SUMMARY OF DEPARTMENT RESEARCH ACTIVITIES – JANUARY 2003 (CONTINUED)**

<b>Study</b>	<b># of Sites</b>	<b>District</b>	<b>RWQCB</b>	<b>Status</b>
Roadside Vegetated Treatment Sites (RVTS)	8	2, 3, 4, 8, 11, and 12	CV, SFB, SA, SD	The purpose of the studies is to evaluate the treatment effectiveness and the operations and maintenance costs of the vegetated slopes. In addition, siting and design criteria will be developed. Installation of 8 RVTS is complete and the second and final year of monitoring is ongoing. Final report to be submitted during summer 2003.
District 7 Gross Solids Removal Devices (GSRDs)	12	7	LA	The purpose of the studies is to determine the treatment effectiveness and the operations and maintenance costs associated with the BMPs. Pilot studies on three Linear Radial Devices, three Inclined Screens, and two Baffle Boxes are complete. The second and final year of monitoring is ongoing for an Inclined Screen with front-end loader access. Construction of three new GSRDs is complete with monitoring expected to begin during this wet season.
Oakland Bay Bridge Pilots	2	4	SFB	The purpose of the studies is to determine the treatment effectiveness and the operations and maintenance costs associated with the BMPs. Preliminary design of one bioretention pilot system and one constructed wetland pilot system is underway.
District 11 Continuous Deflection Separators (CDS)	2	11	SD	The purpose of the studies is to determine the treatment effectiveness and the operations and maintenance costs associated with the BMPs. Installation of 2 CDS units is complete and the first year (02/03) of monitoring is ongoing. Water quality monitoring expected to continue during the following 4 wet seasons.
District 2 Austin-Type Sand Filters	2	2	CV	The purpose of the studies is to determine the treatment effectiveness and the operations and maintenance costs associated with the BMPs. Installation of one Austin-Type Sand Filter with combined detention/filtration and one Austin-Type Sand Filter with separate detention and filtration is complete. Monitoring is ongoing and is planned for two more wet seasons.

**TABLE AR7-1: SUMMARY OF DEPARTMENT RESEARCH ACTIVITIES – JANUARY 2003 (CONTINUED)**

<b>Study</b>	<b># of Sites</b>	<b>District</b>	<b>RWQCB</b>	<b>Status</b>
<b>Monitoring and Water Quality Research Studies</b>				
Statewide Runoff Characterization Studies	63	All	All	The purpose of this project is to characterize the constituent concentrations of storm water runoff from Caltrans facilities. The monitoring sites include the following types of Caltrans facilities: Highways, Acceleration/Deceleration Zones, Construction Sites, Maintenance Yards, Park and Rides, Rest Areas, Toll Plazas, and Commercial Vehicle Inspection/Weigh Stations. The fourth and final year of Monitoring at the Construction Sites is complete. Monitoring at the remaining sites is ongoing and in it's final year. Note that in addition to these sites, influent data from pilot studies also provides characterization data.
California Toxics Rule (CTR) Characterization Study	2	4, 8	SFB, SA	The purpose of this project is to 1) develop cost effective sampling and analytical strategies to attain the low detection limits required under the CTR, 2) identify constituents that exceed the CTR limits in runoff from Caltrans facilities, and 3) develop engineering mitigation strategies for problematic compounds. Monitoring of two sites is ongoing with future plans to be determined.
Drain Inlet Cleaning Efficacy Study (DICE)	15	7	LA	The purpose of this project is to determine whether drain inlet cleaning impacts the water quality of storm water runoff from Caltrans highways. Water quality and litter monitoring at these sites is currently being evaluated. Decisions on whether to continue monitoring at these sites is dependent on the evaluation results.
First Flush Characterization Study	6	7	LA	The purpose of this study is to identify constituent concentration variability with relation to storm intensity, duration, and antecedent weather patterns. The second and final year of monitoring at three sites is complete. The third and final year of monitoring at three sites is ongoing. A final report is anticipated in 2003.

**TABLE AR7-1: SUMMARY OF DEPARTMENT RESEARCH ACTIVITIES – JANUARY 2003 (CONTINUED)**

<b>Study</b>	<b># of Sites</b>	<b>District</b>	<b>RWQCB</b>	<b>Status</b>
Herbicide Runoff Characterization Study	2	1	NC	The purpose of this study is to determine whether best management practices (BMPS) currently employed by Caltrans during herbicide application adequately protect adjacent surface waters from herbicide runoff. Three years of monitoring are complete at these sites and a final report is anticipated in 2003.
Litter Characterization Study	18	6, 7	CV, LA	Current studies providing litter monitoring data include the District 7 GSRDs (see above), Public Education Litter Study (PELMS), DICE (see above), and the First Flush Characterization Study (see above), all of which are ongoing. Completed studies that provide litter characterization data include the Litter Management Pilot Study (LMPS), the Solids Transport and Deposition Study (STDS), and the Litter Inlet Deflector Study (LIDS).
North Coast River Loading Study	4	1	NC	The purpose of this study was to determine the effects of the two primary anthropogenic stressors, sediment and temperature, on salmonids in the Navarro River Watershed. The third and final year of monitoring is complete and the final report (North Coast River Loading Study, Volume I, II, and III - CTSW-RT-02-040) is complete.
Small Stream Crossing Study	2	1	NC	The purpose of this study was to determine the impact of Caltrans roadways and activities on aquatic communities. The third and final year of monitoring is complete and the final report (North Coast River Loading Study, Volume I, II, and III - CTSW-RT-02-040) is complete.
Pathogen Characterization Study	Various	7,11	LA, SD	The purpose of this project was to develop methods to detect pathogens and to run baseline studies and field studies to determine if the methods detect pathogens at common areas that produce urban drainage and at Caltrans facilities. Three years of monitoring is complete and the final report (Management of Pathogens Associated with Storm Drain Discharge) is complete.

**TABLE AR7-1: SUMMARY OF DEPARTMENT RESEARCH ACTIVITIES – JANUARY 2003 (CONTINUED)**

<b>Study</b>	<b># of Sites</b>	<b>District</b>	<b>RWQCB</b>	<b>Status</b>
Statewide Toxicity Testing Study	39	State-wide	State-wide	The purpose of this project is to enable Caltrans to assess the toxicity associated with discharges from its storm drain system, determine the cause of the toxicity, and provide some understanding of the sources of these discharges. The 39 sites were selected from the Statewide Characterization Runoff Studies. This is the third and final year of the monitoring effort. A final report is anticipated in 2004.
<b>Erosion Control Studies</b>				
Temporary Non-Vegetative Soil Stabilization Evaluation Study	2	12	SA	The purpose of this project is to evaluate the water quality impacts of soil stabilizers. The two pilot studies are complete and the final report (Temporary Non-Vegetative Soil Stabilization Evaluation Study - CTSW-RT-01-066) is complete. This study also included the operation of a laboratory at CSU San Diego to test temporary erosion control products.
Statewide Roadside Erosion Review Study	55	All	All	The purpose of this study was to perform a erosion control field review of 55 Caltrans sites with construction completed in the past 5 years. The project is complete and the final report (Statewide Roadside Erosion Review study - CTSW-RT-01-067) is complete.
Testing Permanent Soil Stabilization Study	4	8,9,10	L, CR, CV	The purpose of this study is to evaluate the performance of permanent soil stabilization products. The study plan and experimental design report is complete. Further siting and construction is expected during the next year.
District 5 Vegetation Establishment Maintenance Study	NA	5	CC	The purpose of this study is to identify fast growing vegetation with long term erosion control effectiveness. In addition, a guide for selecting vegetative seed species for specific areas and climates will be developed. Testing of different types of vegetation is ongoing. Development of a seed selection guide is ongoing and expected to be completed by summer 2005.

**TABLE AR7-1: SUMMARY OF DEPARTMENT RESEARCH ACTIVITIES – JANUARY 2003 (CONTINUED)**

Study	# of Sites	District	RWQCB	Status
<b>Watershed Planning Studies - Statewide Outfall Inventories</b>				
District 1		1	CV, NC	No permitted MS4 areas.
District 2		2	L, CV, NC	No permitted MS4 areas.
District 3		3	L, CV, NC	Ongoing
District 4		4	NC, CV, SFB, CC	Ongoing
District 5		5	CV, CC	Ongoing
District 6		6	CV, L	Ongoing
District 7		7	LA, L, CC	Complete
District 8		8	L, SA, CR	Ongoing
District 9		9	L	No permitted MS4 areas.
District 10		10	CV, L	Ongoing
District 11		11	SD, CR	Complete
District 12		12	SA, SD	Complete

NA Not Applicable  
 NC North Coast  
 SFB San Francisco Bay  
 CC Central Coast  
 LA Los Angeles  
 CV Central Valley  
 L Lahontan  
 CR Colorado River  
 SA Santa Ana  
 SD San Diego

## OVERVIEW

Section 8 of the SWMP describes the program evaluation process used by the Department to evaluate the storm water pollution prevention program. This section of the Annual Report describes the status of the elements of the self-audit programs.

## EVALUATION AND ASSESSMENT TOOLS AND MEASURABLE GOALS [SWMP Section 8.2]

The Department implemented program evaluation and assessment tools during this reporting period. In consultation with the SWRCB and RWQCBs, the Department developed additional program evaluation and assessment tools (i.e., maintenance and design compliance monitoring programs).

## STORM WATER MANAGEMENT PROGRAM EVALUATION, OVERSIGHT AND ASSISTANCE [SWMP Section 8.3]

### Internal Multi-functional Meetings [SWMP Section 8.3.1]

The SWATs serve as the primary means for communicating and discussing problems or concerns that are identified by Department employees in the implementation of the SWMP. The activities of the SWATs are described in Section 2, Storm Water Advisory Teams. Regular SWAT meetings with high participation from all of the Districts are resulting in an improved understanding of storm water issues by Department employees.

### External Meetings [SWMP Section 8.3.2]

External meetings between the Department and RWQCBs are summarized in Section 2, Coordination with RWQCBs.

## SELF-AUDIT [SWMP Section 8.4]

The Department has developed a self-audit program to serve as a quality control mechanism to ensure effective implementation of the storm water pollution prevention program. The self-audit program consists of three compliance monitoring programs. The compliance monitoring programs for construction, maintenance, and design activities are described in the following subsections. The Department is required to submit an outline of the proposed audit by February 1 of each year. As agreed to by representatives from the Department and the SWRCB, the Annual Compliance Review Plans prepared by Construction and Maintenance in August of each year will meet this requirement for the following February submittal.

**Construction Compliance Monitoring [SWMP Section 8.4.1]**

The results of the construction compliance monitoring program are provided in the attached Year-End Performance Report March 2003: A Summary of Storm Water Task Force Construction Inspections (Year End Performance Report). The report details the results of construction compliance inspection activities by the Storm Water Task Force (SWTF). The SWTF consists of third-party contractors (consultants) who provide an independent evaluation of storm water compliance for construction activities.

The goal of construction compliance inspection activities is to verify compliance with the Permit and SWMP and the Department's Construction Program requirements. Section 4 of the attached Year-End Performance Report provides additional detail regarding trends in compliance and BMP implementation. A summary of this report for the SWTF's rainy and nonrainy compliance inspections follows.

The Year-End Performance Report reports the level of storm water pollution control compliance observed on Department construction projects statewide and identifies BMP implementation trends, improvements, and challenges noted during the year.

The SWTF's mission is to verify compliance with the requirements of the Permit, and the monitoring requirements and BMPs described in the Department's SWMP.

Compliance inspection activity for each reporting year is divided into two cycles. Generally, the first cycle corresponds to the designated rainy season and the second cycle corresponds to the non-rainy season. For the current reporting year, the first cycle, from October 16, 2001 through April 15, 2002, corresponds to the designated rainy season throughout the state. In this report, data from the first cycle is identified as rainy season 2001 – 02 data.

The second inspection cycle was conducted from April 16, 2002, through October 15, 2002. Due to changes in the rainy season dates defined in the SWMP, the second cycle includes portions of both the rainy season and the non-rainy season in all rainfall areas. During the second cycle, the SWTF conducted compliance inspections applicable to the season defined for the project, regardless of inspection cycle. However, in this report, all data from the second cycle is consolidated and identified as non-rainy season 2002 data.

The Department's compliance inspection program, which began in early 1997, has been revised, amended, and expanded into the program it is today. Information from previous year-end performance reports is incorporated into the Year-End Performance Report to compare results with prior reporting seasons and to show the progression of the program.

An essential component of the program is to educate Department and contractor personnel regarding storm water pollution control requirements and methods. The Task Force achieves this aspect of the program by conducting compliance inspections; providing general and site-specific training; disseminating information through bulletins and performance reports; reviewing SWPPPs and WPCPs; developing guidance and field documents; and by promoting storm water planning and compliance at pre-construction meetings.

The current Year-End Performance Report includes the following information:

- Description of the project selection criteria and rating system used by the Task Force to conduct compliance inspections during the reporting period;
- Summary of Task Force training achievements, including topics covered in the issues of the Construction Storm Water Pollution Prevention Bulletin published during the reporting period;
- Summary of inspection ratings from the current reporting period compared with ratings from previous years;
- Discussion of storm water issues encountered during the current reporting year compared with issues observed during previous years;
- Quantitative analysis of BMP implementation rates and BMP effectiveness by BMP category; and
- Qualitative analysis of BMP implementation trends, improvements and challenges.

### **Maintenance Compliance Monitoring [SWMP Section 8.4.2]**

To perform the storm water compliance monitoring (self-audits), Maintenance developed new Maintenance Storm Water Protection Program elements that consist of two compliance review plans: a facility compliance review plan (Annual Maintenance Facilities Compliance Review Plan [AMFCRP]) and a highway and roadside activity compliance review plan (Annual Maintenance Activity Compliance Review Plan [AMACRP]).

The AMACRP focuses on evaluation and assessment of Maintenance activities on highway and roadways while the AMFCRP focuses on the Maintenance facilities. Both plans will provide the Department with the information necessary to ensure that the appropriate level of water pollution controls is achieved on Department-maintained highways and facilities. Maintenance will focus on achieving the following compliance monitoring objectives:

- Evaluate compliance statewide with the requirements of the Permit;
- Report compliance status to the Department's management; and
- Evaluate BMP implementation trends; suggest areas for improvement and new BMP implementation methodologies.

These new Maintenance program elements supplement Maintenance's current program that will continue to be implemented while the new program is fully developed. Although the inspections conducted in fiscal year (FY) 2002 were not conducted under the evaluation and assessment criteria of the AMFCRP and AMACRP, Maintenance continues to conduct Maintenance facility and highway activity inspections. To conduct these inspections, each District has established a District Maintenance Storm Water Coordinator (DMSWC) with responsibilities that include, but are not limited to:

- Reviewing proposed storm water compliance programs for elements related to Maintenance activities;
- Monitoring and evaluating BMP implementation and effectiveness as related to Maintenance activities that may release pollutants;
- Participating in meetings related to storm water management issues with storm water coordinators from other functional units in the District to discuss problems, concerns, and areas that need attention; and
- Compiling and preparing materials for the portion of the Annual Report to the SWRCB regarding the Maintenance Storm Water Protection Program.

The highway and facility compliance monitoring inspections conducted by the Districts in FY2001 follow a less formal documentation process than the compliance monitoring program criteria proposed for FY2002.

### **Design Compliance Monitoring [SWMP Section 8.4.3]**

Design compliance monitoring is a new element developed by the Department's Project Design Storm Water Advisory Team (PD SWAT). The Districts implemented the new Design Compliance Monitoring Program with the following objectives:

- Evaluate compliance of project planning and design activities with requirements of the Permit and related BMPs contained in the approved SWMP;
- Evaluate SWMP implementation status in planning and design;
- Identify activities or SWMP elements needing improvement, changes or revisions;
- Identify training needs; and
- Report compliance status to the Department's management, SWRCB and RWQCBs.

The Design Compliance Monitoring process utilizes new checklists (incorporated into the new PPDG) as the basis for determining compliance with the design pollution prevention and treatment BMP requirements of the permit and SWMP. The checklists are used by the Districts, and describe the process and procedures that will be followed in order to ensure BMPs are being considered and appropriately incorporated into the Department's projects. Project checklists are reviewed by District reviewers for compliance with developed storm water procedures during the project planning and design phases. Projects may require modification based on the results of the project review.

Feedback from the Design Compliance Monitoring Program was used to refine the format and content of the new SWDR (contained within the September 2002 PPDG), and to improve various sections of the draft version of the PPDG prior to publication.

## FEEDBACK AND PROGRAM IMPROVEMENT [SWMP Section 8.5.2]

Effective internal and external communication by the Department is essential to the implementation of the SWMP. Section 8.5 of the SWMP requires that the Annual Report evaluate internal communications between the Districts and Headquarters and external communications between the Districts and RWQCBs.

Internal communications are facilitated by District and Headquarters participation in the SWATs (see Section 2 of this report for a description of SWAT activities). The Department has individual SWATs for Water Quality, Project Design, Construction and Maintenance to encourage communication and expedite implementation of the storm water program. Every District has a representative assigned to each of the four SWATs.

Development and implementation of the SWMP has increased communication between Districts and has ensured the consistency of the program. For example, the Districts in the North Region are holding bimonthly meetings to discuss implementation of the program. District 4 has also participated in these meetings on a quarterly basis. Other Districts are coordinating in a similar fashion.

External meetings designed to improve communication with the RWQCBs are summarized in Section 2 of this report. In addition, the Department continues to develop its Web site for the benefit of external parties. The Web site includes a variety of useful technical information, as well as contact information for District NPDES Coordinators and Headquarters program leads.

**OVERVIEW**

Section 9 of the Annual Report describes the reporting process used by the Department, including the Annual Report, Regional Work Plans, BMP Selection Report, Public Education Program Progress Report, De-icer Report and noncompliance reporting. This section also presents the status of those reports. Because of resource limitations, this section of the Annual Report is restricted to addressing the requirements specified in the SWMP.

**ANNUAL REPORT [SWMP Section 9.2]****Annual Report Format [SWMP Section 9.2.1]**

Working with the SWRCB, the Department formed a working group to develop a strategy for reporting annual storm water activities. This Annual Report uses the format developed by the working group, which generally follows the SWMP outline and includes SWMP-required reportable items.

**Non-Storm Water Report [SWMP Section 9.2.2]**

Non-storm water discharges are to be identified and characterized in the Annual Report with proposed revisions to existing BMPs to be implemented in the coming year. No additional non-storm water discharges were identified during the reporting period.

**Revised Statewide SWMP [SWMP Section 9.2.3]**

The Permit requires the SWMP to be reviewed annually and revised as necessary to maintain an effective program. No revisions are proposed at this time.

**Regional Work Plans [SWMP Section 9.2.4]**

Regional Work Plans summarize activities to be conducted by the Districts during the 2003/2004 reporting period to comply with the Permit and SWMP.

Regional Work Plans (attached to this Annual Report) are forwarded to the appropriate RWQCB Executive Officer for their approval, and are submitted to the SWRCB each year by April 1.

In addition to the details of future activities provided in the attached Regional Work Plans, summaries of prior work-plan-related activities are provided below. These activities were performed in response to the commitments of the April 2001 Regional Work Plans. The summaries identify the activities and whether or not they were performed. Alternative activities are described where the commitments of the Regional Work Plan were not realized.

### Districts 1, 2 and 3–North Region

Districts 1, 2 and 3, collectively known as the North Region (NR), have been active in seeking opportunities to improve storm water quality. These opportunities take a variety of forms as described in the following Project Development, Maintenance and Construction descriptions.

NR Maintenance personnel have received storm water pollution prevention training and are active in implementing appropriate BMPs. BMPs are utilized in daily work activities both at Maintenance facilities and on the road. Maintenance has also been active in installing soil stabilization measures where appropriate.

NR Construction has been conscientious in requiring contractor compliance with the SWMP. SWPPPs and WPCPs are required for all projects, and are reviewed for appropriateness and effectiveness as projects progress. After completion of construction projects, construction personnel review the project with Maintenance personnel to ensure that BMPs are implemented and maintained as needed.

NR Project Delivery personnel have been provided PPDG training. It is anticipated that more PPDG training will be conducted following revisions to the PPDG. Project Delivery personnel are complying with the requirements of the SWMP by incorporating a variety of soil stabilization and treatment BMPs appropriate to the conditions of the project.

#### *Specific Commitments:*

##### Region 1 – North Coast RWQCB

District 1, 2 and 3: No specific commitments were made in the Regional Work Plan for Fiscal Year 2001/2002.

##### Region 5 – Central Valley RWQCB

District 1, 2 and 3: No specific commitments were made in the Regional Work Plan for Fiscal Year 2001/2002.

##### Region 6 – Lahontan RWQCB

District 2 and 3: Within the Tahoe Basin and Truckee River Basin, the Department has responded to Regional Work Plan commitments with the design, installation, and maintenance of collection, treatment, and/or infiltration disposal facilities for the storm water runoff. District 3 has been diligent in complying with the letter and spirit of this Regional Work Plan commitment. All projects designed and constructed in the Tahoe/Truckee Basins include soil stabilization and treatment devices. District 3 coordinates all projects with both the Tahoe Regional Planning Agency (TRPA) and the Lahontan RWQCB on a frequent basis. Planning and implementation of BMPs to meet the requirements of the Lake Tahoe Environmental Improvement Program (EIP) are underway.

Design work continues on the PLA 267 “Brockway Summit” and the ED 50 “Meyers Water Quality Improvement” projects. These are both EIP projects. The Department has been actively consulting with Lahontan RWQCB and TRPA staff to develop projects that meet the goals of all involved.

Substantial work has been completed on the Nev 267 “Truckee Bypass” project. This project includes the installation of numerous infiltration and detention basins and the construction of traction sand traps.

Phase II of the Lake Tahoe Treatment Pilot Project was initiated during the reporting period. The small-scale field pilot testing facility was constructed at the District 3 Maintenance Station at Meyers. Activities in the winter of 2001/2002 included pilot tests with storm water from six storm events. Testing will continue through fiscal year 2003.

District 3 has prepared and submitted the yearly De-icer Report to the Lahontan RWQCB.

Work continues on the Department’s Tahoe Highway Runoff Characterization and Sand Trap Effectiveness Studies. Samples collected from six locations within the Lake Tahoe Basin were analyzed. Results from the monitoring effort are published as Caltrans Tahoe Highway Runoff Characterization and Sand Trap Effectiveness Studies; 2001-02 Monitoring Season; Caltrans Report No. CTSW-RT-02-044.

No specific commitments were made for District 2 beyond those required by the SWMP.

#### District 4

District 4 provided a Quality Assurance/Quality Control (QA/QC) Table in its 2001 Regional Work Plan. Six different categories were identified for undertaking QA/QC activities for the fiscal year. A summary of the findings and efforts for each of the categories are as follows:

**Planning and Design**—Conceptual Storm Water Pollution Prevention Plans (CSWPPPs) were examined and found to be of good quality, in general. Best Management Practices (BMPs) shown in the documents continued to be a staple of project plans and specifications. However, the Toll Bridge Program began to utilize a generic copy of a CSWPPP to apply to all Toll Projects, which was less than the desired intent of CSWPPP. However, many of the BMPs used in the Toll Projects are non-storm water and waste management BMPs that are typically based on narrative descriptions rather than plan and detail drawings. The CSWPPPs used by the Toll Program may have fulfilled the CSWPPP obligation, but they provided limited guidance over that provided in the new Handbooks developed by Construction. As efforts improved in Fiscal Year 2001/02, District 4 requested the elimination of CSWPPPs, as the greater use of BMPs as separate items in construction contracts has significantly raised the quality of storm water protection afforded to construction projects. At a quarterly meeting on November 16, 2001, the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) agreed to eliminate the need for CSWPPPs. Instrumental in getting the elimination of

CSWPPPs was the depiction of separate items within projects and the quality of SWPPPs submitted to the SFBRWQCB. The SFBRWQCB did request that we provide our comments on the draft SWPPPs submitted by Contractors. This is being done as a means of ensuring to the SFBRWQCB that we've conducted a thorough review of the SWPPP before submitting it.

Aerially Deposited Lead (ADL) notifications prepared by the District appear to be of exceptional quality and all projects have shown significant improvement in the detailing of ADL reuse sites in construction plans and specifications. No changes are expected for fiscal year 2001/02. However, the RWQCBs were informed that recent changes to the Aerially Deposited Lead (ADL) Variance (i.e. 350 ppm to 1496 ppm), we requested that projects already under construction be allowed to utilize the change. The SFRWQCB did not initially agree to the allowance and further did not want any new projects to utilize material in excess of the 350 ppm threshold. The District later wrote a letter to the SFRWQCB regarding the recent change in legislation; the Board reviewed the information and outlined some concerns that were addressed by the District. The District and SFBRWQCB later settled on a maximum total concentration of 750 ppm, as it was consistent with the Interim Final (Dec. 2001) "Application of Risk-Based Screening Levels and Decision Making for Sites with Impacted Soil and Groundwater."

No projects were known to have been constructed in a high-risk area, as defined in the Regional Work Plan, thus review of efforts to consider spill controls for these areas was not needed.

The District sent a letter to the SFRWQCB on September 25, 2001, regarding the presence of the combined systems (drainage connected to the sanitary system). The SFRWQCB agreed upon all issues outlined in the letter. As a result, projects in San Francisco that drain to the combined system will not be required to develop a SWPPP or consider treatment controls. In addition, the District will not need to conduct the drainage inventory for systems connected to the sanitary system. Finally, the SFRWQCB agreed that air space lease inspections within San Francisco did not need to be conducted, as required under the SWMP; however, inspections of the properties should be done as part of the routine lease inspection of the sites.

**Construction**—Evaluations to SWPPP amendments was not completed by the District Storm Water Coordinator due to other demands of higher priority. However, proposed modifications to the General Construction NPDES Permit (i.e. sampling and analysis plans) will provide better opportunity to examine SWPPP amendments, as the new modifications will require an amendment to existing SWPPPs.

Dewatering efforts appear to be improved as most all Resident Engineers are aware of the basin plan objectives for the San Francisco Bay Regional Water Quality Control Board. Much of the awareness has come about through improved specifications on projects that are known to have dewatering activities while still in the planning and design phases of a project. As a result, Environmental Engineers are able to determine if separate permits are needed and if specifications are needed to address project conditions.

**Maintenance**—Sweeping activities were not completely reviewed; however, the use of temporary “dumpsites” for sweeper collected material were examined at select locations within Contra Costa and Alameda Counties. Improved documentation of the site and a more extensive analysis of the protection measures afforded is recommended for the next reporting period. As a result, the Regional Work Plan for fiscal year 2002/03 made commitments for making a more complete evaluation of the sites.

**Public Information**—Two *Fourword* newsletter articles were written by the District on storm water and the Adopt-A-Highway Program. The storm water article was titled “Best Management Practices 101: Silt Fence” and described what are silt fences and how they function as a BMP. The target audience were general members of the public and Caltrans personnel that do not have any experience in using the BMP. The Adopt-A-Highway article was to inform district employees about the increase of public participation and the popularity of the program. The article emphasized keeping California beautiful and information on litter removal statistics. .

**HQ Programs**—Significant efforts were made by District staff to verify the accuracy of Storm Water Task Force evaluations of construction projects. It was determined that a rebuttal system was needed; however, HQ was concerned that the level of complexity might inhibit the timeliness of the reviews. Some minor changes were made to address the District's concerns and further evaluation of the system would be conducted in subsequent reviews to determine if the protocols used by the Storm Water Task Force needed further modification.

Evaluation of monitoring efforts within District 4 was not achieved, as other demands of higher priority took precedence. Monitoring programs will not be further evaluated; however, the District will take improved effort to review draft documents and reports developed by the monitoring studies.

## District 5

A review of the District 5 Regional Work Plan indicates that satisfactory progress was made on all commitments. District 5 continued to hold District-wide Storm Water Meetings on a quarterly basis. These meetings serve as a forum for various functional units to have input on district storm water issues. The meetings, coordinated by Central Region storm water staff, have been well attended by both staff and management personnel.

The Storm Water Coordinators from each functional unit, met on a regular basis (approximately monthly) to discuss ongoing issues, to share information gathered at the respective SWATs and to discuss lessons learned.

The District was successful in establishing a multidisciplinary slope inspection team, the Stabilizers. The Stabilizers met on a quarterly basis, leaving time for team members to inspect slopes between meeting dates. During the reporting year the team developed a process to inspect slopes and resolve erosion issues. The Stabilizers have inspected many slopes throughout the

year and are currently in the process of identifying potential solutions and mechanisms to implement the solutions.

District 5 was successful in enhancing municipal coordination efforts, see Municipal Program Coordination Report in this section of the Annual Report for details.

Central Region storm water staff continued to make significant progress in providing storm water training to staff. The training curriculum was designed to assist in the integration of the new SWMP requirements. Most staff received refresher courses this year and continued to display increased storm water pollution prevention knowledge. Many of the courses provided were also made available to local entities and contractors.

Public Education efforts were increased this reporting year. Storm water staff provided information to various groups through municipal coordination efforts and participating in storm water meetings/conferences sponsored by various entities including; The Association of Public Works Directors, the Association of General Contractors and various watershed working groups.

### **District 6**

A review of the April 1, 2001, Regional Work Plan for District 6 indicates that, in general, satisfactory progress has been accomplished on all commitments.

District 6 Storm Water Team met eight times during 2001/2002.

The commitment to keep the RWQCBs informed of the name and information for contacting the current Central Region NPDES Coordinator has been fully accomplished. Under the supervision and as delegated by the NPDES Coordinator, regional storm water staff located within districts 5, 6 and 10 serve as the local primary contact with the Central Coast, Central Valley and Lahontan RWQCBs. Additionally, for capital functions within district 9, the Regional NPDES Coordinator remains the principle contact and is assisted by a local representative in Bishop. The Central Region NPDES Coordinator is the single point of contact between the RWQCBs and Districts 5, 6 and 10.

The commitment to continue coordination with MS4 partners was accomplished as needed and as special opportunities arose with the Fresno Metropolitan Flood Control District and its four co-permittees, and with Kern County and the City of Bakersfield.

Non-compliance in municipal and construction activities was always currently reported to appropriate Regional Boards. All identified IC/IDs were eliminated as expeditiously as possible with cooperation of the Maintenance Division. No soils were found in District 6 subject to the DTSC lead variance, so reports of this eventuality were unnecessary.

### **District 7**

In order to minimize impact to water bodies by Department projects, all major projects have been reviewed by the appropriate units (e.g., Hydraulics, Landscape Architecture, Storm Water, Materials, Construction, and Maintenance) during District 7's Quality Review Process. During

Quality Review meetings, designers were informed of the NPDES Permit requirements and available BMPs to minimize storm water pollution.

As part of the Maintenance Monitoring Program, under the direction of the Maintenance Storm Water Coordinator, Maintenance actively participated in the non-storm water inspections, maintenance activity pollution prevention plans, facility pollution prevention plans, and the maintenance facility BMP effectiveness program.

As part of the Construction Monitoring Program, the Construction Storm Water Coordinator worked closely with the Storm Water Pollution Prevention Team to inspect and to educate REs, inspectors, and contractors on the proper implementation of construction BMPs through field inspections and review of SWPPPs and WPCPs.

District 7 coordinates storm water management activities with municipalities, flood control districts, RWQCBs and other entities as necessary. Coordination is implemented through informal discussions, meetings, agreements, procedures and special studies.

Training of District personnel took place during Maintenance BMP tailgate meetings, resident engineers, meetings and quarterly PD meetings. District staff is also provided directions in various guidance documents.

Maintenance provided various training to staff, including Annual Awareness Training and the Highway Spill Response Training. During the BMP tailgate meetings, Maintenance Storm Water Bulletins were reviewed, and proper BMP installation methods were shared among Maintenance crews.

Construction personnel received training in the Construction Engineer Academy and the Construction Boot Camp.

Other storm water related activities in District 7 included:

- Annual Element Program Soil Stabilization;
- Infiltration Basin Study;
- Trash Total Daily Maximum Load Baseline Study;
- BMP Structural Retrofit Pilot Project Monitoring in District 7; and
- Litter Generation Study with Los Angeles RWQCB.

## District 8

District 8 has implemented several quality control measures into each phase of project development, execution and operation. Several functional units, such as Environmental Engineering, Design, Construction, Maintenance, Right of Way and Engineering Services, have taken proper measures to help implemented the SWMP.

The District has coordinated with other agencies. The District NPDES Storm Water Coordinator has met on an as-needed basis with other NPDES Coordinators from the various local agencies.

Critical NPDES issues have been discussed during project-related public hearings. The Water Quality Program has assembled a collection of pamphlets and handouts suitable for distribution at public meetings. Water quality issues have been included in the various District Web pages.

Several employee training efforts have been implemented during the fiscal year. Construction field staff responsible for monitoring construction site BMPs have been trained on NPDES Permit requirements, available BMPs and their uses, and have also received BMP field inspection training. The Design Staff was trained on the use of appropriate BMPs, NPDES database, and SWPPP development.

### District 9

A review of the April 1, 2001, Regional Work Plan for District 9 indicates that satisfactory progress has been made on all commitments. The District is participating in the Department's Statewide Storm Water Monitoring Program. A monitoring station was installed near the Mono County line, northbound U.S. 395 Post Mile 0.17/0.2.

No specific commitments were made beyond those required by the SWMP.

### District 10

A review of the April 1, 2001, Regional Work Plan for District 10 indicates that, in general, satisfactory progress has been accomplished on all commitments.

The District 10 Storm Water Team has been established, and meetings have been held consistently.

The commitment to keep the RWQCBs informed of the name and information for contacting the current Central Region Storm Water Coordinator has been fully accomplished. The Central Region NPDES Coordinator is the primary contact for the RWQCB. The Central Region has storm water staff located within District 10 who serves under the supervision of the Regional NPDES Coordinator as the principal liaison with the RWQCBs. Additionally, there are secondary contacts for the maintenance and construction programs which have been established to facilitate communication directly with the Central Valley and Lahontan RWQCBs and the District. The Central Region Storm Water Coordinator will remain the single point of contact between the RWQCBs and District 10 for all Permit compliance issues.

### District 11

A review of the April 1, 2001 Regional Work Plan for District 11 indicates that satisfactory progress has been accomplished on all commitments. Personnel in Construction and Maintenance received training and implemented the updated BMPs from the first approved SWMP (May, 2001) on a routine basis. Additional NPDES training was provided in the fall of 2001 to heighten the awareness of storm water requirements throughout the District.

Storm water drainage system facilities were inspected by Maintenance Supervisors to identify which facilities required cleaning to protect water quality. Maintenance Yard Supervisors performed daily, weekly, and monthly inspections of maintenance facilities throughout the District to ensure the appropriate BMPs were being implemented.

District 11 continues to participate in the “Think Blue” regional public education program and the technical advisory committees with local municipalities (see Section 9, Municipal Coordination Program Report for more details).

### **District 12**

A review of the April 1, 2001, Regional Work Plan for District 12 indicates that satisfactory progress has been accomplished on all commitments.

District 12 has followed up on these quality control measures by incorporating storm water reviews at all phases of a project. Environmental Planning was lead branch for all storm water issues. Project Engineers submitted plans to the Planning branch, and a Water Quality Specialist reviewed the project at the various phases (Project Study Report, Project Report, Project Specifications and Estimates). The Water Quality Specialist ensured that the Environmental Document included water quality mitigation, and the project had allocated enough funds to cover the preparation of the SWPPP/WPCP and implementation of the temporary BMPs on the construction site. The planning branch reviewed third-party activities (encroachment permits) for NPDES issues. If minimal soil disturbances were anticipated in the encroachment permit, the District required, at a minimum, that a Water Pollution Control Program (WPCP) be developed for construction in state right-of-way. The construction storm water coordinator provided assistance to Resident Engineers for SWPPPs reviews in the District and ensured that they were prepared and implemented properly. The Maintenance storm water coordinator ensured maintenance operations followed BMPs for the specific tasks and conducted routine maintenance facility inspections

Several Public Education opportunities were listed in the work plans. Some examples are the public review process for Department projects, an Adopt-a-Highway program administered along with outreach activity, and the Orange County Children’s Drinking Water Festival. District 12 personnel were also trained on NPDES issues. Planners and designers attended eight hours of training to familiarize the staff on storm water issues and incorporating measures into their projects to reduce the discharge of pollutants to storm drain systems and receiving waters. Construction field staff had an eight-hour class covering construction-related storm water issues.

The Maintenance storm water coordinator has trained the field staff on storm water-related issues in the First Responders Awareness training. This training taught field personnel how to respond to a spill situation to avoid discharge to the highway drainage courses.

**BMP Selection Report [SWMP Section 9.2.5]**

The BMPs that are approved, rejected and under evaluation are identified in the BMP Selection Report and in Appendix B of the SWMP. No updates to Appendix B of SWMP have been issued at this time.

**New BMP Selection [SWMP Section 9.2.6]**

As presented in Section 7 of the Annual Report, the Department has an ongoing program to annually evaluate new technologies for storm water management. The New Technology Report is used to consolidate and standardize information on new BMP technologies and is the first step in the process to identify and select potential BMPs. The SWATs review the New Technology Report to determine if the potential BMPs should be approved. A detailed description of the selection process for adopting new BMP technologies is presented in Section 3 of the SWMP.

The Storm Water Treatment Technology Research Status Report provides a brief summary and status of reconnaissance studies and ongoing pilot studies conducted by the Department. Successfully piloted technologies are considered for approval and listing in the SWMP as a permanent BMP to be considered as part of significant construction and retrofit projects.

The New Technology Report and the Storm Water Treatment Technology Research Status Report are discussed in Section 7 and are included as attachments to the Annual Report.

**Municipal Coordination Program Report [SWMP Section 9.2.7]**

In many cases, discharges from Department facilities flow to drainage systems owned and operated by municipalities (e.g., cities or counties) and vice versa. The Districts are responsible for this coordination, and specific coordination activities are documented in the attached Regional Work Plans.

**Districts 1, 2 and 3**

Districts 1 and 2 have no MS4 municipalities located within their boundaries and do not yet have formal municipal coordination programs. However, Local Assistance, Advance Planning, Maintenance, Project Development and Construction meet with and work closely with other state and local agencies on a project to project basis. A formal coordination program should be in place before the implementation of Phase II in 2003.

District 3 has a very active program. Meetings are held often in Truckee and Tahoe to coordinate with TRPA, the Lahontan RWQCB and other state and local agencies. District 3 is involved in the Lake Tahoe Interagency Monitoring Program (share information and documents), Lake Tahoe Interagency Roadway Subcommittee, and share sand specifications and sampling results with other MS4 agencies in Tahoe. In addition to meetings held in Truckee and Tahoe, District 3 also attends the Sacramento Valley MS4 meetings held quarterly in Stockton.

**District 4**

There are several municipal organizations whose membership consists of cities and counties throughout District 4. The District has worked to collaborate and coordinate with these agencies; however, the extent of this effort has been dependent upon both available resources and other District commitments of higher priority. During the next year, the District will identify and evaluate the various storm water venues for coordination with local agencies. It is the District's intent to interact with the member agencies at least once per fiscal year. In each Annual Report, the District will provide a summary of the venues along with the intended level of participation that the District will undertake within each venue. Each of the Municipal venues known to the District is described in the following sections.

***Bay Area Storm Water Management Agencies Association (BASMAA)***

The Department has been participating with BASMAA as a nonpaying member since 1994. Direct participation includes attending the management committee meetings, the monitoring subcommittee meetings, and the public information and participation subcommittee. The BASMAA management committee meetings give the Department an opportunity to share information on the development of the various Department storm water programs, the status of implementation of such programs and any upcoming events in which the local agencies may participate. It also gives the Department an opportunity for sharing the information and knowledge gained through the implementation of specific control measures and for receiving feedback from the local programs. The Department also learns about the programs being implemented by the local agencies and governments. These meetings are a good means for discussing project-specific issues that involve both the Department and the local agencies.

***San Pablo Watershed Working Group***

The District, as a stakeholder, has been participating in the San Pablo Watershed Working Group to protect and enhance the quality of the watershed that drains into the San Pablo reservoir. The group was working with the East Bay Municipal Utility District (EBMUD) in the preparation of a watershed management plan. However, this group has discontinued its efforts until additional resources are identified within the local municipalities. Through participation on this group, the District has been able to identify potential storm water impacts from construction sites within the watershed. As a result, the District implemented and monitored the effectiveness of various control measures at the construction sites, in order to minimize the potential impacts. The District has shared with the group all available monitoring data, as well as information on all existing control measures. The District will continue its participation with this group as soon as the group meetings are reestablished.

***San Leandro Creek Watershed Advisory Committee***

The District, as a stakeholder in the watershed, participates on an advisory committee tasked with the development of a Coordinated Resource Management Plan (CRMP) to be implemented in the San Leandro Creek watershed. This committee has not met on a regular basis, but the District will continue to participate on this committee, as appropriate.

***County Storm Water Programs***

The District participates in various storm water programs sponsored by the counties. The District shares information on various storm water related activities implemented by the Department. In addition to cooperation and collaboration, the lines of communication between The Department and the counties are also open for reporting any noncompliance or potential water pollution problems, so that solutions can be formulated. Among the programs that the District currently participates in are: The Alameda County Clean Water Program, the Santa Clara Valley Clean Water Program, the San Mateo County Storm Water Pollution Prevention Program, and the Contra Costa County Storm Water Management Program.

**District 5**

Regional storm water staff continued to attend municipal coordination meetings with local entities within the District's boundaries. Coordination continued with municipal partners in Santa Barbara County through participation in the "Intergovernmental Agency Committee." The committee is composed of representatives from: the City of Santa Barbara, the City of Lompoc, the City of Santa Maria, the City of Carpinteria, Santa Barbara County, Vandenberg Air Force Base, and the Central Coast Regional Water Quality Control Board.

Additionally, Region storm water staff was able to help coordinate the new San Luis Obispo County Storm Water Team. Many Phase II municipalities within San Luis Obispo County are represented on the group. The team serves as a forum to share information and to look for opportunities to coordinate on various storm water issues such as, public education, total maximum daily loading (TMDLs) and IC/ID detection and elimination.

In addition to municipal coordination activities in San Luis Obispo County, storm water staff also took part in storm water teams in Santa Barbara and Monterey Counties. Many of the entities represented on the teams are Phase II municipalities except for the City of Salinas. The teams provided an opportunity to discuss potential water quality issues related to proposed projects in project design. Region Staff also attended a variety of watershed working groups within the District. Some of the groups included: The Clean Water Project, San Jose Creek Watershed Group, Coleta Slough Watershed Group, and the Tembladro Slough Watershed Group.

Region staff also coordinated on an informal basis with representatives from Monterey, San Benito, San Luis Obispo, Santa Cruz and Santa Barbara Counties regarding a variety of issues throughout the reporting year. Three IC/IDs were resolved through combined efforts of both Region staff and County Environmental Health staff. Through the project development process staff worked with local entities to address water quality issues on many proposed projects.

**District 6**

District 6 continued coordination with the Fresno Metropolitan Flood Control District (FMFCD), the lead permittee—together with Fresno County, the City of Fresno, the City of Clovis, and California State University Fresno—under a Phase I MS4 permit for the Fresno metropolitan area.

The Department is an active member of the FMFCD's Public Involvement and Education and Construction and Development Committees. District 6 also continued coordination with Kern County and the City of Bakersfield, which are co-permittees under a MS4 Permit for the metropolitan Bakersfield area.

The Department's Headquarters Environmental Program, Office of Environmental Engineering-Water Quality, engaged consultants to conduct a statistical Public Education Litter Study (PELS) in and near Fresno. The PELS has involved increasing coordination with Department headquarters personnel, consultants, and local agencies. See the Public Education Program Progress Report.

### **District 7**

District representatives attended some of the Southern California Association of Governments (SCAG) meetings during the fiscal year. SCAG is the organization that represents the interests of over 15 million Southern Californians (excluding San Diego County). There is a Standard Urban Storm Water Mitigation Plan (SUSMP) for Los Angeles County and 85 incorporated cities.

District 7 attends and receives input from community environmental groups during the Santa Monica Bay Restoration Project Meetings.

District 7 also participates in the Ballona Creek Watershed Committee and Los Angeles River Watershed Committee meetings. Discussions are open and cover a broad spectrum of topics including: NPDES Permit compliance and implementation, Total Maximum Daily Load (TMDL) levels, RWQCB policies, BMPs and various watershed issues.

District staff regularly attended the RWQCB Board meetings. The District coordinated the Litter Study, TMDL issues and discussed other storm water issues (e.g. deck drains, dewatering) on various design projects. District 7 and the City of Los Angeles coordinate efforts on the trash TMDL task force.

### **District 8**

For the Colorado River RWQCB, the District Storm Water Unit staff has participated in monthly coordination meetings of the Coachella Valley MS4 Co-Permittees.

For the Los Angeles RWQCB (Coordinated MS4 permit for the Victorville/Adelanto/Apple Valley/Hesperia metropolitan area as the program has developed), the District Storm Water Unit personnel have coordinated with those communities.

For the Santa Ana RWQCB, the District Storm Water Unit staff has participated in monthly coordination meetings of the Riverside County/Santa Ana Region MS4 Co-Permittees.

District Storm Water Unit staff has participated in monthly coordination meetings of the San Bernardino/Santa Ana Region MS4 Co-Permittees.

District Storm Water staff will also participate in TMDL workgroups for Big Bear Lake, Canyon Lake/Lake Elsinore, and the Chino Basin.

For the SDRWQCB, the District Storm Water Unit staff has participated in monthly coordination meetings of the Riverside County/Murietta Creek MS4 Co-Permittees.

### **District 9**

District 9 Storm Water staff has formally and informally discussed storm water issues with Inyo County, Mono County, Inyo National Forest Service, BLM, LADPW and the City of Bishop while attending Inter-Agency meetings. These discussions included the potential for future partnering efforts that would include Lahontan RWQCB, federal, and other state and local agencies in developing an interagency storm water committee that would meet annually or biannually. They would identify and address the special storm water needs and requirements for the Sierra Nevada region.

### **District 10**

District 10 continued many informal as well as formal discussions and meetings with the City of Stockton, the City of Modesto, San Joaquin County and the Stockton Port Authority. District 10 many times provided advice and relevant literature to the Cities of Stockton, Modesto and to San Joaquin County.

The Department's Headquarters Environmental Program, Office of Environmental Engineering-Water Quality, PELS in Fresno involves two control sampling sites in Stockton where no public education is planned. The PELS has involved increasing coordination with Department headquarters personnel, consultants and local agencies. See the Public Education Program Progress Report.

### **District 11**

The District 11 municipal coordination activities cover a range of programs and training opportunities to the public and contracting community from supporting mass media campaigns to hosting/supporting technical storm water workshops. These activities include:

- Participating in region-wide public education with all San Diego County municipal co-permittees on a Public Education and Outreach Workgroup focused on developing a regional theme and ensuring continuing regional coordination of public education and outreach efforts.
- Participating in Project Clean Water which includes all 18 cities; the Port, environmental groups, consultants and the public are all a part of the County of San Diego-led Technical Advisory Committees (TACs). The Department has primarily participated in the Science and Technology, Land Development, Construction, and Public Education TACs during Phase I and soon will be actively involved in the new Phase II Data and Information Management TAC and the continuing Public Education TAC.

- Initiating special coordination meetings with the co-permittees through SANDAG, a regional planning association contracting with D11, to coordinate and expand the MS4 drainage GIS database.

## District 12

The County of Orange, the Orange County Flood Control, and 33 Orange County cities are co-permittees on a municipal NPDES Permit with the San Diego and Santa Ana RWQCBs. District 12 uses Orange County as a point of contact to address NPDES program issues within the region. The County also serves as a contact to inform the municipalities working under the county permit on issues that the Department encounters with their permit.

The Department and the County of Orange aid in the exchange of information by hosting various meetings focusing on different issues. The County of Orange and its co-permittees host TAC meetings as well as co-permittee meetings. In these meetings, the municipalities discuss issues ranging from compliance and enforcement to funding of the Storm Water Program. The County is also involved in the formation of watershed study teams where local players discuss and propose action items to ensure the beneficial uses of the watershed. In turn, Districts 8 and 12 jointly host the Department’s regional NPDES Coordination Team meetings attended by the Santa Ana RWQCB liaison and the Orange County Public Facilities and Resource Department (PFRD) liaison. These meetings are held on a quarterly basis and offer the County of Orange a means of exchanging information with the Department and forwarding it to the municipalities under the County permit.

Districts 8 and 12 jointly host regional NPDES Coordination Team meetings attended by the Santa Ana RWQCB liaison and the Orange County Public Facilities and Department liaison. These meetings are held on a quarterly basis.

## Statewide MS4 Contacts

Table AR9-1 identifies primary points of contact for the Department with MS4s and others.

**TABLE AR9-1: CURRENT CONTACTS WITH MS4s**

DISTRICT #	ORGANIZATION NAME	CONTACT
1	No MS4 permittees	–
2	No MS4 permittees	–
3	El Dorado County	El Dorado County Department of Transportation Mat Boyer, Director 2850 Fairlance Court Placerville CA, 95667
3	Placer County	Placer County Department of Public Works Tim Hackworth, Acting Director 11444 B Ave. Dewitt Center Auburn, CA 95603

TABLE AR9-1: CURRENT CONTACTS WITH MS4s (CONTINUED)

DISTRICT #	ORGANIZATION NAME	CONTACT
3	Sacramento County	Sacramento County Department of Water Resources Keith DeVore, Director 827 – 7 <sup>th</sup> Street Sacramento, CA 95814
3	City of Sacramento	City of Sacramento Michael Kushiwagi, Director of Public Works 915 I Street Room 200 Sacramento CA, 95814
3	City of South Lake Tahoe	City of South Lake Tahoe Brad Vidro, Public Works Director 1900 Lake Tahoe Blvd. South Lake Tahoe CA 96150
	<b>Santa Clara County</b>	
4	City of Campbell	Lynn Penoyer
4	City of Cupertino	Lavenia Millar
4	City of Los Altos	Larry Lind
4	City of Los Altos Hills	Jim Rasp
4	City of Los Gatos	Les White
4	City of Milpitas	Marilyn Nickel, Paramjit Uppal
4	City of Monte Sereno	Brian Loventhal
4	City of Mountain View	Eric Anderson
4	City of Palo Alto	Joe Teresi, Phil Bobel
4	City of San Jose	Debra Caldon
4	City of Santa Clara	Rick Mauck
4	City of Santa Clara	Roger Lee
4	Santa Clara County	Steve Homan
4	Santa Clara Valley Water District	Beau Goldie, Dale Jacques
4	City of Saratoga	John Cherbone
4	City of Sunnyvale	Lorrie Gervin, Kristy McCumby
4	West Valley Communities	Sheila Tucker
4	Santa Clara Valley Urban Pollution Prevention Plan	Jill Bicknell, Cristina Goulart
4	Santa Clara Valley Urban Pollution Prevention Plan	Adam Olivier EOA, Inc. 699 Town & Country Village Sunnyvale, CA, 94086
	<b>San Mateo County</b>	
4	City of Millbrae	Khee Lim
4	City of Atherton	Cliff Temps
4	Town of Colma	Michelle Wu
4	Town of Portola Valley	Kevin Rohani
4	NPDES Coordinator	Robert Davidson
4	City of Belmont	Kathleen Phalen
4	City of East Palo Alto	Dave Bishop
4	Town of Hillsborough	Kevin O'Connell
4	City of San Mateo	Vern Bessey
4	City of Daly City	Cynthia Royer
4	City of Foster City	Norm Dorais

TABLE AR9-1: CURRENT CONTACTS WITH MS4s (CONTINUED)

DISTRICT #	ORGANIZATION NAME	CONTACT
4	City of Half Moon Bay	Bonnie Farrell
4	City of San Bruno	Clarissa Williar
4	City of South San Francisco	Ray Honan
4	City of Menlo Park	Pat Stone
4	City of Redwood City	Marilyn Harang
4	City of Pacifica	Raymond Donguines
4	City of Burlingame	Phil Monaghan
4	County of San Mateo	Ken Robinson
4	City of San Carlos	Stephanie Bertollo
4	City of Brisbane	Jerry Flanagan
4	Town of Woodside	Christina Hovland
4	San Mateo Countywide STOPPP	San Mateo Countywide STOPPP Bob Davidson 310 Capstan Court Redwood City, CA 94065
	<b>Marin County</b>	
4	Town of San Anselmo	Pat Echols
4	City of Belvedere	Art Gibney
4	Town of Fairfax	Bill Whitney
4	City of Sausalito	Peter Tzifas
4	County of Marin	Joanna Charlton
4	Marin County STOPPP	Liz Lewis 3501 Civic Center Drive San Rafael, CA 94903
4	City of Larkspur	Mike Myers
4	Town of Corte Madera	David Montero
4	Town of Ross	Rob Maccario
4	City of Novato	Domenic Zigant
4	City of San Rafael	Steve Zeiger
4	Town of Tiburon	Dan Watrous
4	City of Mill Valley	Jill Catherine
	<b>Alameda County</b>	
4	City of Alameda	Morty Prisament
4	City of Albany	Judy Lieberman
4	City of Berkeley	Danny Akagi
4	City of Dublin	Saied Aminian
4	City of Emeryville	Jackie Lucas
4	City of Fremont	Kathy Cote
4	City of Hayward	Alex Ameri
4	Alameda County Clean Water Program	Bob Hale 951 Turner Court Hayward, CA 94545
4	City of Livermore	Darren Greenwood
4	City of Newark	Wilem Wolbertus
4	City of Oakland	Vacant
4	City of Piedmont	Lori Salamack
4	City of Pleasanton	Steve Cuesnza

TABLE AR9-1: CURRENT CONTACTS WITH MS4s (CONTINUED)

DISTRICT #	ORGANIZATION NAME	CONTACT
4	City of San Leandro	Ronald May
4	City of Union City	John Rigter
	<b>Contra Costa County</b>	
4	City of Antioch	Julie-Hass Wajdowicz
4	City of Brentwood	Teresa Wooten
4	City of Clayton	Laura Hoffmeister
4	City of Concord	Jeff Roubal
4	Town of Danville	Christine McCann
4	City of El Cerrito	Bruce King
4	City of Hercules	Erwin Blancaflor
4	City of Lafayette	Ron Lefler
4	City of Martinez	Jim Zumwalt
4	Town of Moraga	Bob Dunn
4	City of Oakley	Jason Vogan
4	City of Orinda	Andrew S. Gaber
4	City of Pinole	Bill Mattick
4	City of Pittsburg	Ken Strelo
4	City of Pleasant Hill	Todd Teachout
4	Contra Costa County Flood District	Dean Eckerson
4	Contra Costa Clean Water Program	Donald P. Freitas 255 Glacier Drive Martinez, CA 94553
4	City of Richmond	Freddy Cortez
4	City of San Pablo	Scott Christie
4	City of San Ramon	Joye Fukuda
4	City of Walnut Creek	Rachel Lenci
4	Contra Costa County	Steve Wright
	<b>Solano County</b>	
4	Fairfield-Suisun Sewer District	Larry Bahr 1010 Chadbourne Road Fairfield, CA, 94585
4	Vallejo Sanitation and Flood Control District	Vallejo Sanitation and Flood Control District Jack Betroune 450 Ryder Street Vallejo, CA 94590
4	City of Fairfield	Gene Cortright
4	City of Suisun City	Mike Duncan
4	BASMAA	Geoff Brosseau
	<b>Sonoma County</b>	
4	City of Santa Rosa	Colleen Ferguson
4	Sonoma Co Water Agency	Vacant
4	County of Sonoma	Vacant
	<b>Monterey County</b>	
5	Monterey County Water Resources Agency (Salinas)	Elizabeth Kafft, Curtis Weeks 893 Blanco Circle Salinas, A 93901
5	Upper Salinas/Las Tablas Resource Conservation District	Donald Funk / Adriana Morales Salinas, California

TABLE AR9-1: CURRENT CONTACTS WITH MS4s (CONTINUED)

DISTRICT #	ORGANIZATION NAME	CONTACT
	<b>Santa Barbara County</b>	
5	Santa Barbara County Environmental Health	Dan Redi
5	Santa Barbara County Water Agency	Rob Almy, Cathleen Gardner 123 East Anapamu Santa Barbara, CA 93101
5	City of Santa Barbara	Jill Zachary, Steve Mack, Bill Ferguson PO Box 1990 Santa Barbara, CA 93102
5	City of Lompoc	Stacy Lawson PO Box 8001 Lompoc, CA 93438
5	City of Santa Maria	Tiffany Perez 601 Black Road Santa Maria, CA 93458
5	City of Carpinteria	Steve Wagner 5775 Carpinteria Ave. Carpinteria, CA 93103
	<b>San Luis Obispo County</b>	
5	City of Paso Robles	Ditas Esperanza
5	SLO County Public Works	Mark Hutchinson, Paayo Ogren
5	Pismo Beach	Dennis Delzeit
5	City of Atascadero	Jeff Van Den Eikhof
5	Southern California Gas Company	Brian Reilly
5	Morro Bay National Marine Estuary Program	Mike Multari
5	City of Morro Beach	Tammy Seale
5	City of Grover Beach	Bruce Ambo
5	City of San Luis Obispo	Jay Walter
5	California Polytechnic University	Kim Busby, Ed Johnson
5	City of Arroyo Grande	Don Spagnolo
6	City of Bakersfield	Gene Bogart, Florn Core, Mark Lambert 1000 Buena Vista Rd. Bakersfield, CA 93311
6	City of Clovis	Lisa Koehn 155 N. Sunnyside Ave. Clovis, CA 93611
6	City of Fresno	Jon Elam 2600 Fresno Street Fresno, CA 93721
6	County of Fresno	Frank Fowler 2220 Tulare Street, 6 <sup>th</sup> Floor Fresno, CA 93721
6	County of Kern	Charles Lackey, Dan Chung 2700 "M" Street, Suite 570 Bakersfield, CA 93301
6	Fresno Metropolitan Flood Control District	Dave Pomaville 5469 E. Olive Ave. Fresno, CA 93727

TABLE AR9-1: CURRENT CONTACTS WITH MS4s (CONTINUED)

DISTRICT #	ORGANIZATION NAME	CONTACT
6	California State University Fresno	Lisa Kao 2311 E. Barstow Ave. Fresno, CA 93740
7	Ballona Creek Watershed Committee	Sheila Kennedy
7	City of Santa Monica	Neal Shapiro
7	City of Long Beach	Rose Collins
7	Los Angeles Regional Water Quality Control Region 4	Xavier Swamikannu 320 West 4 <sup>th</sup> Street, Suite 200 Los Angeles, CA 90013
7	Los Angeles River Watershed Committee	Shelia Kennedy
7	Santa Monica Bay Restoration Program	Marianne Yamaguchi/ Mark Gold
7	SCAG – Southern California Association of Governments	Dan Griset 818 West Seventh Street, 12 <sup>th</sup> Floor Los Angeles, CA 90017
7	Ventura County	Sally Coleman
7	Los Angeles and San Gabriel Rivers Watershed Council	Rumi Yanakiev 111 N. Hope Street, Suite 627 Los Angeles, CA 90012
7	Los Angeles County Department of Public Works	Bill DePoto 900 S. Fremont Ave Alhambra, CA 91803
7	Ventura County Flood Control District	Jamie Laber 800 So. Victoria Ave. Ventura, CA 93003
7	MTA – Metropolitan Transit Authority	Cathy Sweet
7	Santa Monica Bay/Ballona Creek Watershed Permittee Meeting	Kathleen McGowa 371 Van Ness Way, Ste. 200 Torrence, CA, 90501
7	City of Los Angeles Integrated Resources Plan committee	Amy Jones 2714 Media Center Drive Los Angeles, CA 90065
8	San Bernardino County Flood Control	Naresh Varma
8	San Bernardino County Planning	Jim Squire
8	City of Big Bear Lake	Scott Arenella
8	City of Chino	Steve Wilson
8	City of Chino Hills	John Mura
8	City of Colton	Kathy Kivley
8	City of Fontana	Howard Morris
8	City of Grand Terrace	John Donlevy
8	City of Highland	Larry Williams
8	City of Loma Linda	Dannis Barton
8	City of Montclair	Mario Orioli
8	City of Ontario	Glen Stott
8	City of Rancho Cucamonga	Bob Zettersberg
8	City of Redlands	Tom Fujiwara
8	City of Rialto	NPDES Coordinator

TABLE AR9-1: CURRENT CONTACTS WITH MS4s (CONTINUED)

DISTRICT #	ORGANIZATION NAME	CONTACT
8	City of San Bernardino	Michael Grubbs
8	City of Upland	Steve Gapuzan
8	City of Yucaipa	Fred Hawkins
8	Riverside County Flood Control and Water Consecration District	Steve Stump
8	Riverside County Executive Office	Katherine Gifford
8	Coachella Valley Water District	Steve Bigley
8	City of Banning	Ann Marie Loconte
8	City of Cathedral City	Deanna Pressgrove
8	City of Coachella	Eldon Lee
8	City of Desert Hot Springs	Michael Janis
8	City of Indian Wells	Bondie Baker
8	City of Indio	Amir Modarressi
8	City of Indio	Roldan Lopez
8	City of La Quinta	Monte Post
8	City of Palm Desert	Joseph Gaugush
8	City of Palm Springs	Marna Van Horn
8	City of Rancho Mirage	Leland Cole
8	City of Beaumont	John Wilder
8	City of Callmesa	Elroy Kiepke
8	City of Canyon Lake	Jack Wamsley
8	City of Corona	Ati Eskandari
8	City of Hemet	Juan Perez
8	City of Hemet	Roland Trietsch
8	City of Lake Elsinore	Ray O'Donnell
8	City of Moreno Valley	Kent Wegelin
8	City of Murrieta	Gene Diepholz
8	City of Norco	Jeff Peterson
8	City of Perris	Olivia Gutierrez
8	City of Riverside	Rob Van Zanten
8	City of San Jacinto	Tim Hults
8	City of Temecula	John Pourkazemi
9	City of Bishop	Andy Boyd
9	City of California City	Ronald Wallace
9	Town of Mammoth Lakes	Steve Black
9	Mono County	Richard Boardman
9	Inyo County	Jeff Jewett
9	Kern County	Daniel Chung
9	San Bernardino County Flood Control	Naresh Varma
9	San Bernardino County Planning	Jim Squire
10	City of Modesto	John Rivera
10	City of Modesto	Blair Bradley 1221 Sutter Ave. Modesto, CA 95351
10	City of Stockton	Bob Murdoch 2500 Navy Dr. Stockton, CA 95206

TABLE AR9-1: CURRENT CONTACTS WITH MS4s (CONTINUED)

DISTRICT #	ORGANIZATION NAME	CONTACT
10	City of Stockton	Susan Mora Loyko
10	County of San Joaquin	Denise Thomas 1810 E Hazelton Ave. Stockton, CA 95201
10	Port of Stockton	Jay Jahangiri 2201 W. Washington St. Stockton, CA 95203
10	Port of Stockton	Alex Krygsman
10	Port of Stockton	Rich Martucci
11	County of San Diego	Jon Van Rhyn
11	City of San Diego	Karen Henry
11	City of Imperial Beach	Hank Levien
11	City of La Mesa	Driss Elwardi
11	City of Solana Beach	Neil Cole
11	City of Carlsbad	Rosanna Lacarra
11	City of Encinitas	Kathy Weldon
11	San Deigo Association of Governments	Jack Koerper, Joanna Salazar
11	City of Lemon Grove	Armando Mora
11	San Diego Port District	David Merk
11	City of Oceanside	Gary Kellison, Bill Teas, Guss Pennell
11	City of Chula Vista	Francisco X. Rivera
11	City of Escondido	Cynthia Ferguson-Salvati
11	City of San Marcos	Mike Mercereau, Jasen Boyens
11	City of El Cajon	Robert Griswold, Dennis Davies, Richard Odiorne
11	City of Del Mar	Mikhail Ogawa, Lauraine Brekke-Esparza
11	City of Carlsbad	Lloyd B. Hubbs
11	City of Coronado	Jim Benson, Joel McBride, Robert Moehling
11	City of Poway	Niall Fritz, Gene Logan
11	City of National City	Stephen Kirk Patrick
11	City of Vista	William Basham, Graig Trammell, Mike Broyles
11	City of Santee	Douglas Williford, Cary Stewart
12	County of Orange, Public Facilities and Resource Department (PFRD)	Karen Ashby 1750 S. Douglass Road Anaheim, CA 92806
12	County of Orange, PFRD	Gene Estrada 300 North Flower Street Santa Ana, CA 92703
12	Santa Ana, Region 8 (RWQCB)	Bob Whitaker
12	San Diego, Region 9 (RWQCB)	Chris Means

BASMAA Bay Area Storm Water management Agencies Association  
 MS4 municipal storm sewer system  
 PFRD Public Facilities and Resource Department  
 SCAG Southern California Association of Governments  
 RWQCB Regional Water Quality Control Board

**Analysis of Adequacy of Legal Authority [SWMP Section 9.2.8]**

Section 2.6 of the SWMP describes the legal authority for enforcing provisions of the Permit. No legal problems were encountered during the reporting period that deterred the Department from implementing the SWMP.

**IC/ID Program [SWMP Section 9.2.10]**

The Permit requires the submittal of a report on the IC/ID program as a part of the Annual Report. The IC/IDs are documented, and notification letters are sent to the discharger or responsible parties. The IC/IDs identified for the reporting period are shown in Table AR9-2.

**Public Education Program Progress Report [SWMP Section 9.2.11]**

Section 6 provides information on the public outreach program designed to raise the public's awareness and understanding of storm water pollution.

**DE-ICER REPORT [SWMP Section 9.3]**

Pursuant to NPDES Permit Order No. 99-06, Section L.10.b., Caltrans is to submit a De-icer Report to the Lahontan RWQCB annually.

A draft de-icer report for the 01-02 fiscal year was hand delivered to the Lahontan RWQCB by the Deputy District 3 Director for the Lake Tahoe Basin on October 18, 2002. Lahontan staff responded by submitting comments on November 27, 2002, and revisions were made by Caltrans District 3 staff.

The report was certified by Caltrans District 3 Director on January 15, 2003. The final report was submitted on February 19, 2003, as a section of the Caltrans 2002 Progress Report on Environmental Improvements, 2002 edition, pages 74 through 106. The report was also sent receipt-certified to the State Water Board on February 26, 2003.

TABLE AR9-2: ILLICIT CONNECTION/ILLEGAL DISCHARGE

DISTRICT / PROGRAM	DATE FIRST KNOWN TO DISTRICT	COUNTY	ROUTE	RESPONSIBLE PARTY NAME OR TYPE	DESCRIPTION OF CONNECTION/DISCHARGE	RESOLUTION STATUS
1	10/11/2000	Fresno	99	Gasoline station	Wash down and run-on to right-of-way.	Corrected.
4	7/18/2001	Contra Costa	WB 580	Four home owners on nearby/adjacent Hoffman Blvd.	The four newly constructed and landscaped homes have inserted HDPE pipes beneath State fence – discharging their water directly to Department drain inlet.	Maintenance notified to “red tag” pipes – City of Richmond and homeowners claim “historic flow” rights. Unknown resolution
4	8/17/2001	San Mateo	NB 001	“Bay City Flowers” and “Nurserymen’s Exchange”	These two agricultural businesses both discharge their untreated irrigation waters to State property – large amount of dry flow and algae growth.	Unknown resolution
4	10/19/2001	San Mateo	SB 035	“U-Haul” and gas and garage station combo	The business has attached a flex-hose to their roof drainage and extended it onto Sate property	Maintenance notified. On subsequent follow-up visits the hose remains on the business side of the fence.
4	11/29/2001	San Mateo	NB 101	Howard Johnson’s Motel	Restaurant extends pipe from their laundry room – carrying soapy laundry water directly to Department drain inlet which outfalls just meters away to Colma Creek.	Maintenance notified. On a revisit the pipe had been disconnected, (but was still nearby.) Maint probably spoke to them – but no documentation has been received.
4	10/10/2001	Marin	SB 101	Caltrans Air Space Lease # MRN 101-0006	This ASL is an Auto Body Shop that washes, paints, and repairs cars. Waters discharge untreated into Department storm drains.	Right-of-Way agent writes letter (3-18-02) advising these practices must cease and provides solutions to implement. No further information.
4	8/6/2001	Alameda	NB 880	Caltrans Air Space Lease # ALA 880-0041	This ASL is the Oakland Police Depart. They use the area to store their fleet – and wash their cars – discharging directly to Department storm drains.	Right-of-Way agent has expressed her concern and believes progress is being made toward a resolution.

TABLE AR9-2: ILLICIT CONNECTION/ILLEGAL DISCHARGE (CONTINUED)

DISTRICT / PROGRAM	DATE FIRST KNOWN TO DISTRICT	COUNTY	ROUTE	RESPONSIBLE PARTY NAME OR TYPE	DESCRIPTION OF CONNECTION/DISCHARGE	RESOLUTION STATUS
4	1/15/2002	Santa Clara	SB 101	Home Building Construction Company	Home builder / Construction Company discharge ponded water to Department right-of-way. This causes massive sediment build-up, impacts drains, and ruins landscaping.	Contractor said he will resolve to our satisfaction. Contractor coordinates with maintenance to have environmental contractor clean the site. The RWQCB also helped facilitate cleanup. No final resolution.
4	3/29/2002	Marin	NB 101	Royal Coach Car Wash	Car wash has cut a channel beneath State fence-waters from their lot drain to Department drain inlet.	Pending
4	4/4/2002	Sonoma	NB 101	Hyster Sales Company	Equipment rental company has mounded earth – creating drainage problem that they have tried to correct by installing drainage pipes beneath State fence. Unnatural discharge is creating erosion.	Pending
4	4/4/2002	Sonoma	NB 101	“Touchless” Car Wash	Car Wash lot slopes directly to Department drain inlet.	Pending
4	3/20/2002	Sonoma	SB 101	Irrigation and agricultural	Agricultural runoff from fields of grapes is culverted beneath frontage road and discharges onto State property.	Pending – may not be an I.D.
4	4/9/2002	Alameda	NB 880	Dragen & Wheel Works	One or both of these companies have cut a channel beneath state fence to facilitate the drainage of their shop waters and open dumpster onto State property.	Pending
4	6/10/2002	Alameda	WB 580	Developer / Homeowner	Property owner has cut a hole into the State fence and installed an 18” HDPE pipe thru the fence in order to drain the land o a probable underground spring... A lot of water during “dry flow”	Maintenance notified. No further information.

TABLE AR9-2: ILLICIT CONNECTION/ILLEGAL DISCHARGE (CONTINUED)

DISTRICT / PROGRAM	DATE FIRST KNOWN TO DISTRICT	COUNTY	ROUTE	RESPONSIBLE PARTY NAME OR TYPE	DESCRIPTION OF CONNECTION/DISCHARGE	RESOLUTION STATUS
4	6/26/2002	Alameda	WB 580	Homeowner	While house is being re-modeled, a homeowner connects washing machine wastewater directly to a Department V-ditch.	The owner was reprimanded by Maintenance to cease this practice, and was given until 8/1/02 to comply.
4	6/26/2002	Alameda WB 580	WB 580	Apartment Building Owners	Large Apartment buildings have connected their downspouts to plastic pipe that they have submerged beneath State fence and drain directly into a Department V-ditch.	Pending – this may be part of an “historic flow” – therefore, no “ID” – but the Apartment building still should have Encroachment Permit for the “IC”
5	5/1/2002	Monterey	INA	Private resident	Resident cleared and graded large area which resulted in a sediment discharge into a drainage located on an excess parcel on Pesante Road in Monterey County.	Resolved
6	11/27/2001	Fresno	99	Private party	Oily water pumped onto R/W	
6	1/30/2002	Tulare	63	Private party	Residue tested non-haz determined legal drainage	
6	2/27/2002	Fresno	99	Private party	Gas station wash down	Pending
6	8/7/2002	Kern	155	Private party	Leach lines placed on state property	Cleaned up by owner
6	9/5/2002	Tulare	99	Private party	Sewage draining to state R/W	Cleaned up by owner
6	10/3/2002	Fresno	99	Private party	Property owner pumping waste water from his fish/duck ponds onto state R/W	Pending
7	7/15/2001	Los Angeles	5	Car dealer	6" pipe on sw corner of property discharging on to State "v" ditch	Dealer to only wash vehicle on car wash pad, and stop washing operations at other points in the property
7	7/15/2001	Los Angeles	5	In-Out Burgers	Overside drain into State channel	Business to stop washing operations in parking lot
7	7/15/2001	Los Angeles	5	Carl's Jr.	Small diameter pipe coming from center of property discharges to State drainage channel	Washing operation not to be done on parking lot

TABLE AR9-2: ILLICIT CONNECTION/ILLEGAL DISCHARGE (CONTINUED)

DISTRICT / PROGRAM	DATE FIRST KNOWN TO DISTRICT	COUNTY	ROUTE	RESPONSIBLE PARTY NAME OR TYPE	DESCRIPTION OF CONNECTION/DISCHARGE	RESOLUTION STATUS
7	4/4/2002	Los Angeles	60	Property owner	Discharge from pipe at property fence eroded slope and washed sediment into ditch and DI	Property owner notified of situation and advised of the illegal status of actions
7	4/12/2002	Los Angeles	1	Property owner @ 25900 Narbonne Ave. Lomita, Ca	Storm drainage from property draining to Narbonne St storm drainage flowline and ending eventually to storm drain on PCH	Contractor cleaned up water in flow line and DI
10	3/11/2002	San Joaquin	99	Eagle Construction	Parking lot runoff through 2 PVC pipes into Department drainage.	Complete
10	3/18/2002	Amador	49	John Herzig	Silt/mud runoff from private property onto CT ROW into drain.	Complete
10	3/25/2002	Merced	33	Unknown	Petroleum waste in Department drainage ditch	Complete
11	5/18/2001	San Diego	163	Fun Rides Car Lot	Drainage channel created to drain onto CT ROW	Own constructed drainage improvements
11	3/6/2001	San Diego	I-15	Bally's Total Fitness	A pipe extending from property discharged water onto ROW	Diverted discharge to City of San Diego sewer system
11	8/29/2001	San Diego	I-5	Stones by Pietra	Concrete sludge dumped from construction activities	Cleaned concrete waste
11	11/21/2001	San Diego	SR-56	Steven Firestone	Pool cleaner discharging to CT ROW	Discharge pipe was removed
11	1/9/2001	San Diego	SR-67	Eskimo Radiator	Radiator hoses were hung on the property fence	Stopped hanging leaky hoses from fence
11	2/7/2002	San Diego	SR-67	Kroeger Family Properties	Pipe discharging pool water onto ROW	Removed pipe from ROW - still exists on private property
11	3/6/2002	San Diego	Not on CT ROW	Katherine Baker	Trash dumped in streambed	Not on CT ROW
11	3/27/2002	San Diego	SR-67	San Diego Superchargers	Discharge from automotive repair facility	Resolution pending

**TABLE AR9-2: ILLICIT CONNECTION/ILLEGAL DISCHARGE (CONTINUED)**

INA	Information not available. Because the SWMP was not approved until May 2001, there was insufficient time to implement the non-storm water reporting provisions.
BMP	best management practice
RP	responsible party
ROW	right-of-way
IC/ID	illicit connection/illegal discharges
CT/RW	Caltrans right-of-way
RWQCB	Regional Water Quality Control Board

### OVERVIEW

Section 10 is reserved to address regional exceptions and additions to the procedures and practices required by Section 10 of the SWMP. Regional differences in climate, terrain, local hydrology, sensitive receiving waters, basin plan requirements, and District organization result in special conditions that require special procedures and practices. No changes to the location-specific requirements identified in the SWMP were identified for this reporting period.

Additional details on location-specific issues and upcoming activities can be found in the Regional Work Plans submitted with this Annual Report.