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UNIVERSITY OF CALIFORNIA, DAVIS

Stormwater Management Plan (SWMP)

Prepared for

UNIVERSITY OF CALIFORNIA, DAVIS

Non-Traditional Phase II Municipal Separate Storm Sewer System

WQ Order No. 2003-0005-DWQ

NPDES General Permit No. CAS000004



Table of Contents

Table of Contents.....	i
1.0 Introduction.....	1
1.1 STORMWATER PROGRAM BACKGROUND.....	1
1.2 PURPOSE OF THE SWMP.....	1
1.3 ORGANIZATION AND STRUCTURE OF THE SWMP.....	1
1.4 APPLICABILITY OF THE SWMP.....	2
1.5 SWMP IMPLEMENTATION.....	2
1.6 CAMPUS POPULATION.....	4
1.7 CAMPUS AND WATERSHED DESCRIPTION.....	4
1.8 CAMPUS FACILITY OPERATIONS.....	5
1.9 OTHER REGULATORY PROGRAMS ADDRESSING STORMWATER.....	6
Industrial Activities.....	6
Construction Activities.....	8
Irrigated Agriculture Waiver.....	8
Dairy General Permit.....	8
2.0 Minimum Control Measures.....	9
2.1 Campuswide Education and Outreach (EO).....	11
BACKGROUND.....	11
OBJECTIVES.....	11
BEST MANAGEMENT PRACTICES.....	11
SUPPORTING BEST MANAGEMENT PRACTICES.....	11
EO1 – OUTREACH MATERIALS FOR FACULTY/STAFF AND STUDENTS.....	13
EO2 – STORM DRAIN INLET MARKING.....	15
EO3 – EFFECTIVENESS ASSESSMENT.....	17
2.2 Campuswide Involvement and Participation (IP).....	19
BACKGROUND.....	19
OBJECTIVES.....	19
BEST MANAGEMENT PRACTICES.....	19
SUPPORTING BEST MANAGEMENT PRACTICES.....	20

IP1 – CAMPUS STORMWATER EVENTS 21

IP2 – CAMPUS COMMUNITY INVOLVEMENT 23

IP3 – EFFECTIVENESS ASSESSMENT 25

2.3 Illicit Discharge Detection and Elimination (ID)..... 27

 BACKGROUND 27

 OBJECTIVES 27

 BEST MANAGEMENT PRACTICES 27

 SUPPORTING BEST MANAGEMENT PRACTICES 27

 AUTHORIZED DISCHARGES 28

 ID1 – ILLICIT DISCHARGES AND CONNECTIONS DETECTION AND PREVENTION..... 31

 ID2 – STORM DRAIN SYSTEM MAPPING 33

 ID3 – ILLICIT DISCHARGE AND SPILL RESPONSE..... 35

 ID4 – TRAINING..... 37

 ID5 – EFFECTIVENESS ASSESSMENT 39

2.4 Construction Site Stormwater Controls (CO) 43

 BACKGROUND 43

 OBJECTIVES 43

 CONSTRUCTION GENERAL PERMIT REQUIREMENTS 43

 BEST MANAGEMENT PRACTICES 44

 SUPPORTING BEST MANAGEMENT PRACTICES 44

 CO1 – CAMPUS CONSTRUCTION SITE STORMWATER POLICIES AND STANDARDS 47

 CO2 – SWPPP REVIEW PROCESS..... 51

 CO3 – CONSTRUCTION SITE BMP IMPLEMENTATION AND INSPECTION 53

 CO4 – TRAINING..... 57

 CO5 – EFFECTIVENESS ASSESSMENT 59

2.5 Planning and Design (Post-Construction) Stormwater Management (PD)..... 63

 BACKGROUND 63

 OBJECTIVES 64

 BEST MANAGEMENT PRACTICES 64

 SUPPORTING BEST MANAGEMENT PRACTICES 65

PD1 – CAMPUS PLANNING AND DESIGN (POST-CONSTRUCTION)
STORMWATER POLICIES AND STANDARDS..... 67

PD2 – PLAN REVIEW AND APPROVAL PROCESS..... 71

PD3 – POST-CONSTRUCTION BMP INSPECTION AND MAINTENANCE..... 73

PD4 – TRAINING..... 75

PD5 – EFFECTIVENESS ASSESSMENT..... 77

**2.6 Pollution Prevention and Good Housekeeping for Campus
Operations (PP) 81**

 BACKGROUND 81

 OBJECTIVES 81

 BEST MANAGEMENT PRACTICES 81

 SUPPORTING BEST MANAGEMENT PRACTICES..... 82

 PP1 – IDENTIFICATION AND DEVELOPMENT OF BMPS FOR CAMPUS
 OPERATIONS 83

 PP2 – TRAINING 89

 PP3 – EFFECTIVENESS ASSESSMENT 93

3.0 Program Implementation and Management 95

 3.1 PROGRAM IMPLEMENTATION..... 95

 3.2 PROGRAM EVALUATION..... 95

 3.3 ANNUAL REPORTS 95

 3.4 SWMP REVISIONS 96

 3.5 SWMP AVAILABILITY AND RECORDS RETENTION 96

 3.6 PROGRAM MANAGEMENT MEASURABLE GOALS..... 96

4.0 References..... 99

Appendix A.1 Phase II General Permit..... A-1

Appendix A.2 Phase II General Permit Standard Provisions..... A-3

Appendix B Supplemental Information..... B-1

 B.1 CAMPUS FACILITY DRAINAGE..... B-3

 B.2 CLIMATE AND RAINFALL B-5

 B.3 LOCAL SOIL CONDITIONS B-5

 B.4 OFF CAMPUS UNIVERSITY FACILITIES B-7

B.5 PATH AND STREET SWEEPING MAPS..... B-10
UC Davis Path Sweeping Map..... B-10
UC Davis Street Sweeping Map B-11

B.6 2009 UC DAVIS UTILITIES SYSTEM SCHEMATICS STORM DRAINS B-12
UC Davis Central Campus Storm Drains B-12
UC Davis Central Campus Storm Drain Catchment Areas B-13
UC Davis South Campus Storm Drains..... B-14
UC Davis West Campus Storm Drains..... B-15

1.0 Introduction

1.1 STORMWATER PROGRAM BACKGROUND

In 1990, Phase I of the National Pollutant Discharge Elimination System (NPDES) stormwater program was established by U.S. Environmental Protection Agency (EPA). The Phase I program required permits for large and medium Municipal Separate Storm Sewer Systems (MS4s); industrial activities and large construction projects. Subsequently the Phase II NPDES stormwater program extended permitting requirements to small MS4s, and small construction projects. In this rulemaking, U.S EPA defined state or federal facilities, such as universities, as small MS4s.

The State Water Resources Control Board (State Water Board) issued a Phase II MS4 General Permit in 2003¹. In this permit the State defined federal and state facilities as Non-Traditional MS4s, which are subject to the permit requirements upon designation by the Regional Water Quality Control Board. The University of California, Davis campus is regulated as a Non-Traditional MS4. The Phase II MS4 General Permit requires that MS4s in this category develop and implement a Stormwater Management Program to control stormwater pollution. In compliance with this order, and the designation by the Central Valley Regional Water Quality Control Board (Regional Water Board), the UC Davis has developed this Stormwater Management Plan (SWMP). The Phase II MS4 General Permit, including the permit's Standard Provisions, is contained in **Appendix A**.

1.2 PURPOSE OF THE SWMP

The purpose of the SWMP is to:

- Identify potential pollutant sources affecting the quality and quantity of stormwater discharges
- Provide Best Management Practices (BMPs) to reduce the discharge of these pollutants into receiving waters to the maximum extent practicable
- Provide measurable goals for the evaluation and development of the SWMP
- Develop a cost effective program focused on pollution prevention

1.3 ORGANIZATION AND STRUCTURE OF THE SWMP

The SWMP provides a comprehensive approach to addressing pollutants in stormwater runoff. The SWMP is organized as follows:

Section 1 provides background information on UC Davis and stormwater management.

Section 2 describes the implementation of the six minimum control measures.

Section 3 provides information on the program management and reporting requirements.

Appendices provide supplementation information and supporting documents.

¹ State Water Resources Control Board Water Quality Order No. 2003-0005-DWQ; NPDES General Permit No. CAS000004.

The key section of the SWMP is Section 2, which is organized into the required six Minimum Control Measures (MCMs). **Figure 1-1** shows overall organization of the SWMP and provides a flow chart of the interrelationship of the SWMP, MCMs and the BMPs.

1.4 APPLICABILITY OF THE SWMP

This SWMP has been designed to address pollutant sources from the contiguous campus located in Yolo and Solano County, which includes the central, west, and south campus units. The Russell Ranch is not part of the contiguous campus and is not in an urbanized area; that area is not subject to this SWMP.

UC Davis also owns and operates several off-campus facilities in the City of Davis. These facilities are listed in the supplemental information in **Appendix B**. Stormwater drainage from these facilities discharges to the City of Davis' storm drainage system. These facilities are not covered by this SWMP, but are subject to the City's Stormwater Management Plan.

Several remote facilities or satellite institutions are associated with UC Davis, such as the Bodega Marine Laboratory in Sonoma, CA, and the Medical Center in Sacramento, CA. These facilities are either not located in an urbanized area, or are considered separate and distinct facilities by the Regional Water Board. These facilities are not subject to this SWMP.

1.5 SWMP IMPLEMENTATION

The Office of Administrative and Resource Management (ARM) is the division that is responsible for campus resource planning and finance, facilities and land management, human resources and safety. The division represents a broad and diverse portfolio and includes the following operational units: Facilities and Land Management; Resource and Finance, and Safety.

The Facilities and Land Management (FLM) unit is primarily responsible for campus resource planning, facilities, operations and land management. This unit is comprised of the following operational units: Campus Planning and Community Resources; Capital Resource Management (CRM); Design and Construction Management (DCM); Environmental Stewardship & Sustainability (ESS) and Facilities Management (FM).

The SWMP implementation will be coordinated by the UC Davis Associate Vice Chancellor, Safety Services, through Environmental Health and Safety (EH&S). Other departments, including, those listed below will play significant roles in the day to day implementation of the required Minimum Control Measures. These roles are identified in each MCM.

- Facilities and Land Management (FLM)
- Facilities Management (FM)
- Transportation and Parking Service (TAPS)
- Student Housing
- Associated Students of the University of California, Davis (ASUCD)
- Campus Food Service (e.g. Coffeehouse, and Sodexo Inc.)

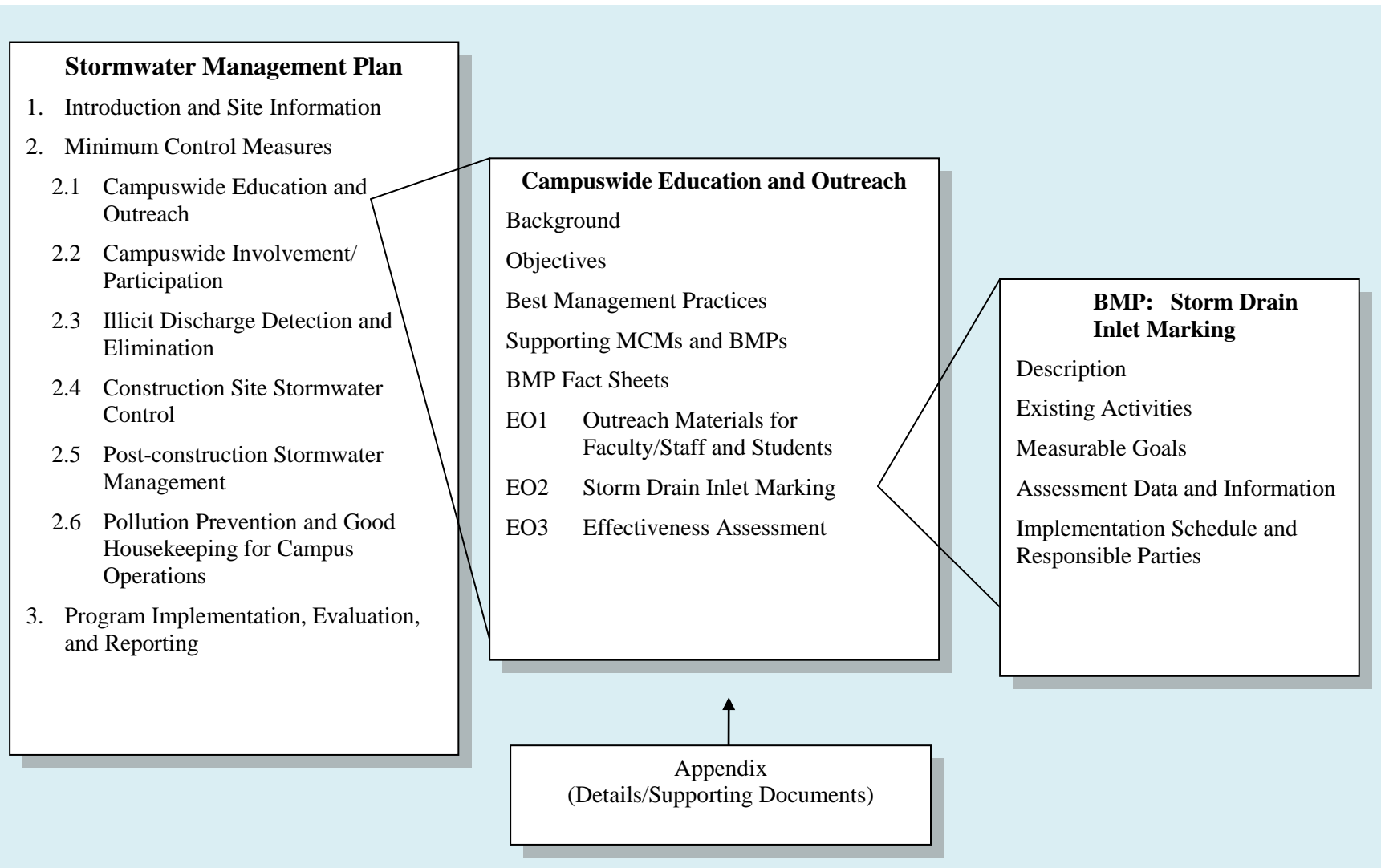


Figure 1-1. Stormwater Management Plan Organization

1.6 CAMPUS POPULATION

Campus population and projections are developed by the UC Davis ARM and the Budget and Institutional Analysis Division. Population estimates and projections are based on the three-quarter (Fall, Winter, Spring) average headcount. The 2008-2009 headcounts three-quarter average student enrollment data and faculty and staff data are 28,687 students and 11,330 faculty and staff, for a total main campus population of approximately 40,020. The student enrollment projection for 2020 is 31,500, which represents a growth rate of approximately one percent per year. Faculty and staff would grow at a similar or slightly lower rate.

1.7 CAMPUS AND WATERSHED DESCRIPTION

UC Davis is one of ten campuses governed by the Regents of the University of California and is an internationally recognized public teaching and research institution. The Davis campus is located in the Central Valley of California, 72 miles northeast of San Francisco and 15 miles west of Sacramento. The Davis campus lies to the south and west of the City of Davis and is generally bounded by A Street on the east and Russell Boulevard on the north. The western boundary of campus is approximately ½ mile west of County Road 98 and the southern boundary is the South Fork of Putah Creek. The Davis campus is located in Yolo and Solano Counties.

The Davis campus covers an area of approximately 5,300 acres and comprises four general campus units: the central campus, the west campus, the south campus, and Russell Ranch. Most academic and extracurricular activities occur in the central campus, while the other areas see predominantly agricultural use.

The land use categories on campus and their approximate areas are summarized in **Table 1-1**. The central campus makes up most of the developed area in the Davis campus.

Table 1-1. Existing Land Use on Campus

Land Use Category	Acres	Percentage
Academic and Administrative	510	10 %
Teaching/Research Fields	2,250	44 %
Support Facilities	170	3 %
Housing	100	2 %
PE/ICA/Recreation	80	2 %
Open Space		
Formal	20	<1 %
Teaching and Research	250	5 %
Reserve	30	<1 %
Parking Lots	65	1 %
Unassigned	85	2 %
Russell Ranch	1,590	31 %
Total	5,150	100 %

Urbanized areas in the watershed include academic and administrative, support, parking lot, housing, and Physical Education/Intercollegiate Athletics (PE/ICA)/Recreation land uses that

make up about 925 acres (18%) of the total campus area. Open space lands include: formal open space, which comprises landscaped areas within the central campus; open space teaching and research, which is primarily located along the Arboretum; and Reserve spaces, which are along the North and South Forks of Putah Creek. Open space areas are generally pervious, although landscaped formal open space areas often utilize drainage systems to transport runoff.

Teaching and research fields include agricultural land uses, such as raising of crops, orchards, and animal areas; such land uses make up most of the southern and western campus and represent approximately 44% of the overall campus area. These areas primarily consist of pervious surfaces. Runoff in agricultural land largely infiltrates until the ground becomes saturated. Portions of the west and south campus include engineered storm drainage systems that drain to Putah Creek. Unimproved areas generally drain away from Putah Creek, but can reach other off-campus drainage systems.

The Davis campus is located in the Sacramento River Basin. Putah Creek, a tributary to the Sacramento River, is the principal waterway in the Davis area. The waterway originates from springs on Cobb Mountain, which is part of the Mayacama Mountains located on the western edge of Lake and Napa Counties. The upper watershed flows southeast into Lake Berryessa. From Lake Berryessa's Monticello Dam, Putah Creek flows east to the Putah Diversion Dam. Below the diversion point, the waterway flows through Winters, along the southern boundary of Russell Ranch, along the southern boundary of the UC Davis west and south campuses, and eventually into the Yolo Bypass, an overflow channel for the Sacramento River.

The North Fork Cutoff on the west campus (which traverses from SR 113 to the South Fork of Putah Creek) and the Arboretum Waterway (which traverses along the southern edge of the central campus) follow the historic channel of Putah Creek, but currently has no natural flow. The South Fork of Putah Creek was constructed in the 1870's to protect the Davis area community from flooding. In 1948, the U.S. Army Corps of Engineers constructed levees along the South Fork from the historic North Fork to the Yolo Bypass so the North Fork Cutoff is a typically dry stream channel. The Arboretum Waterway, under an NDPES permit, receives tertiary-treated water from the campus wastewater treatment plant. Use of the tertiary-treated water helps to maintain water quality in the Arboretum Waterway during the hot summer months.

The campus lies on nearly flat terrain. Site elevations range from 45 feet to 70 feet above sea level with an average topographical slope of 0.25 percent.

Additional information on the Campus Facility Drainage; Climate and Rainfall; and Local Soil Conditions are provided in the supplemental information in **Appendix B**.

1.8 CAMPUS FACILITY OPERATIONS

The Davis campus functions as a small city, with its own fire and police departments, utility systems (e.g., providing the campus with electrical and telephone service, drinking water, and wastewater treatment), and a municipal landfill.

The UC Davis employs maintenance, custodial, and grounds staff for day-to-day operations. This includes building maintenance (e.g., cleaning, painting, and repairs), completion of department work requests, daily cleaning of common buildings, grounds maintenance, small construction projects, and various repair and maintenance activities. UC Davis FM staff and outside contractors perform electrical, plumbing, roofing, asphalt, exterior building painting, sewer line

cleaning, utility repairs, and janitorial duties. FM: Civil and Industrial Services provide the labor and equipment used to maintain agricultural field teaching and research activities.

The UC Davis also maintains its fleet of vehicles used by University employees, and ASUCD operates a fleet of busses; which provides bus service to the campus and City of Davis.

1.9 OTHER REGULATORY PROGRAMS ADDRESSING STORMWATER

In addition to the Phase II MS4 General Permit, several activities and facilities located at the Davis campus generate stormwater runoff that is subject to other regulatory programs. These activities and facilities are not directly subject to this SWMP or the Phase II MS4 General Permit, but the SWMP does rely upon those programs as BMPs.

Industrial Activities

NPDES General Permit No. CAS000001 (Industrial General Permit) covers discharge of stormwater associated with industrial activities, excluding construction activities. Under this permit, industrial facilities are required to develop Stormwater Pollution Prevention Plans (SWPPPs). UC Davis has filed for separate NPDES permit coverage under the Industrial General Permit for the six sites shown in **Table 1-2**; these sites are described below.

Table 1-2. Sites Covered Under General Permit for Industrial Activities

Site	Waste Discharge Identification Number (WDID#)
Environmental Services Facility	5S57I015193
Unitrans Facility	5S57I015314
Fleet Services	5S57I009689
UC Davis Airport	5S57I016863
UC Davis Landfill	5S57I009690
Inactive Landfill (LEHR)	5S57I002687

Environmental Services Facility (ESF)

The Environmental Services Facility (ESF) is located on the West Campus, directly north of Agricultural Services, and can be accessed via Garrod Drive. The ESF site is approximately 299,250 square feet with an overall impervious surface of 35%. The facility provides about 30,000 assignable square feet for chemical, radioactive, and biohazardous materials handling, treatment, and storage; temporary full-drum storage; laboratories; and offices and support facilities.

Unitrans Facility

The Unitrans Facility is located on the main campus on Garrod Drive, just southwest of the Fleet Services. The facility is used to maintain a fleet of approximately 40 buses used as public transportation on campus and within the City of Davis. The size of the Unitrans Facility, including parking areas, is 92,000 square feet, covered approximately 99% by an impervious surface. The Unitrans Garage and Bus Wash are the two buildings within the boundaries of the Unitrans Facility.

Fleet Services

The Fleet Services Facility is located on the main campus at the corner of La Rue Road and Garrod Drive. It houses an 800-vehicle fleet of automobiles, trucks, and buses for rent or charter by UC Davis faculty, staff, and students. The size of the Fleet Services facility, including parking areas contiguous with the maintenance area, is 150,000 square feet with approximately 90% to 95% impervious surface. There are three buildings within the boundaries of Fleet Services: the Vehicle Maintenance Facility, Vehicle Shelter 1, and Vehicle Shelter 2.

UC Davis Airport

The UC Davis Airport is a general utility airport located in the West Campus, on Hopkins Road between Hutchison Drive and Putah Creek. UC Davis operates the airport in accordance with regulations of the Federal Aviation Authority and the California Division of Aeronautics. The airport contains runways, a fueling facility, hangars, tie down (covered and uncovered), and a maintenance operation leased to a private company. There are a total of ten buildings within the boundaries of the UC Davis Airport site, including the Cal Aggie Flyers Office, a building housing the Airport Maintenance Facility and Airport Office, the Antique Mechanics Hangar, storage buildings, and several enclosed and unenclosed hangars used for airplane storage.

UC Davis Landfill

The UC Davis Class III Landfill is the current sanitary landfill for the UC Davis campus. It currently operates under Solid Waste Facility Permit # 57-AA-004 and Waste Discharge Requirements Order # 5-00-191, and is located immediately west of County Road 98 and immediately north of Putah Creek. The landfill currently covers 39 acres: approximately 23 acres of closed cells, 2 acres of active cells and approximately 14 acres for future expansion. There is <1% impervious surface on the closed cells (clay caps on the cells are not considered to be impervious for the purpose of runoff calculations). All other acres are covered with native soil and vegetation or a daily soil cap (active cells when not in use). There is one building on the site.

Inactive Landfill (Cells 1 and 3) (LEHR)

The Inactive Landfill Cell 3 is located 600 yards east of Old Davis Road, immediately north of the north levee of the South Fork of Putah Creek. A drainage ditch passes through this inactive cell, which ceased receiving waste in 1967. The Inactive Landfill Cell 1 is located east of Old Davis Road, immediately north of the north levee of the South Fork of Putah Creek, near the entrance to the UC Davis Raptor Center. Both landfill cells are located on a Superfund site known as the Laboratory for Energy-related Health Research (LEHR)/Old Campus Landfill (EPA#: CA2890190000) and are actively being addressed through the response process required by the Comprehensive Environmental Response Compensation and Liability Act, as directed by the U.S. Environmental Protection Agency (EPA) with input from the state environmental regulatory agencies. Storm water runoff from the site is currently managed through application of Best Management Practices to reduce sediment in storm flow discharges. The Remedial Action selection by EPA is anticipated to permanently address stormwater discharges from the site.

Construction Activities

Construction activities are covered under the NPDES General Permit No. CAS000002 (Construction General Permit). In 2001, the Regional Water Board interpreted the common plan of development language of the Construction General Permit as applicable to UC Davis' construction projects. Under this interpretation, UC Davis obtained a single Waste Discharge Identification Number (WDID#) that covers all its construction projects. The UC Davis construction WDID# is 5S57C316224.

With the adoption of the 2009 Construction General Permit, the Regional Water Board has informed UC Davis that the common plan of development campuswide permit will be rescinded. As of July 1, 2010 (the effective date of the 2009 Construction General Permit) UC Davis projects will need to obtain individual coverage under the Construction General Permit as needed.

Irrigated Agriculture Waiver

In October 2003, UC Davis enrolled its irrigated agricultural acres in the Irrigated Lands Program run by the Yolo County Farm Bureau Education Corporation (YCFBEC) Subwatershed. YCFBEC is part of the Sacramento Valley Water Quality Coalition. The lands have been continuously enrolled. This program covers all irrigated agricultural lands as required by the Regional Water Board.

Dairy General Permit

UC Davis' Animal Science Dairy production facility and manure land application area is regulated under Waste Discharge Requirements General Order for Existing Milk Cow Dairies (Order No. R5-2007-0035, adopted on May 3, 2007).

2.0 Minimum Control Measures

This section of the Stormwater Management Plan (SWMP) provides the details of the six Minimum Control Measures (MCMs) which are required activities of the Stormwater Program, as detailed in Phase II MS4 General Permit. Sections 2.1 through 2.6 are organized as follows:

- 2.1 – Campuswide Education and Outreach (EO)
- 2.2 – Campuswide Involvement and Participation (IP)
- 2.3 – Illicit Discharge Detection and Elimination (ID)
- 2.4 – Construction Site Stormwater Controls (CO)
- 2.5 – Planning and Design (Post-Construction) Stormwater Management (PD)
- 2.6 – Pollution Prevention and Good Housekeeping for Campus Operations (PP)

Each subsection describes the goals of the MCMs and includes Best Management Practices (BMPs) that outline the specific steps that will be taken to achieve these goals. The final BMP of each MCM is an Effectiveness Assessment used to evaluate the success of the other BMPs supporting the MCM goals. The Effectiveness Assessment Strategy for the stormwater program is further described below.

Effectiveness Assessment Strategy

The Effectiveness Assessment Strategy is used to determine whether MCMs are achieving intended outcomes and ultimately, whether continued implementation will result in maintaining or improving water quality (CASQA, 2007). Outcome levels are used to categorize and describe the desired results of goals of the BMPs and MCMs. There are six outcome levels as defined by the CASQA Program Effectiveness Assessment Guidance (**Figure 2.0-1**).

The outcome levels identify the key areas that are evaluated for the program effectiveness assessment within the Annual Report. The UC Davis campus SWMP has the ultimate goal of protecting receiving water quality (Level 6 Outcome). However, initial assessments of implementation of this SWMP will focus on outcome levels 1-3.

The primary questions that should be assessed for each MCM or BMP include the following for outcome levels 1-3:

- Level 1 Outcome – Was the MCM/BMP implemented in accordance with the Permit Provisions, SWMP MCMs, and BMPs?
- Level 2 Outcome – Did the MCM/BMP raise the target audience’s awareness of an issue?

Outcome Level	Description
6	Protecting Receiving Water Quality
5	Improving Runoff Quality
4	Reducing Loads from Sources
3	Changing Behavior
2	Raising Awareness
1	Documenting Activities

Figure 2.0-1. Effectiveness Assessment Outcome Levels

- Level 3 Outcome – Did the MCM/BMP change a target audience’s behavior, which results in implementation of recommended BMPs?

As part of the Annual Progress Report, an effectiveness assessment will be conducted for each MCM and related BMPs and measureable goals to determine their effectiveness and identify necessary modifications. Although the effectiveness assessment may change from year to year as new information is learned, the outcome levels that will be used to assess MCMs initially are shown in **Table 2.0-1**.

Table 2.0-1. Program Effectiveness Assessment Strategy Summary for the UC Davis Stormwater Management Program

MCM	Level 1	Level 2	Level 3	Level 4
	Implement Program	Increase Awareness	Behavior Change	Load Reduction
Campuswide Education and Outreach (EO)	✓	✓		
Campuswide Involvement and Participation (IP)	✓	✓		✓
Illicit Discharge Detection and Elimination (ID)	✓	✓	✓	
Construction Site Stormwater Controls (CO)	✓	✓	✓	
Planning and Design (Post-Construction) Stormwater Management (PD)	✓	✓	✓	
Pollution Prevention and Good Housekeeping for Campus Operations (PP)	✓	✓		

2.1 Campuswide Education and Outreach (EO)

BACKGROUND

The Campuswide Education and Outreach Minimum Control Measure (MCM) is designed to increase the knowledge of the campus community regarding the storm drain system, impacts of urban runoff on receiving waters, and potential Best Management Practice (BMP) solutions. Since everyday activities can be a significant source of pollutants to the storm drain system, UC Davis has developed the Campuswide Education and Outreach Program to inform the campus community about the potential impacts that these activities may have on stormwater runoff and identify ways that they can reduce pollutants in stormwater runoff.

OBJECTIVES

The objectives of the Campuswide Education and Outreach MCM are to:

- Develop and provide education/outreach materials to faculty/staff and students
- Mark or stencil campus storm drain inlets with stormwater quality message
- Conduct an assessment as part of the annual reporting process to determine the effectiveness of the Campuswide Education and Outreach MCM and identify any necessary modifications

BEST MANAGEMENT PRACTICES

UC Davis proposes to implement the BMPs outlined below in **Table 2.1-1** and discussed in the accompanying fact sheets. In developing the BMPs, several key factors were considered:

- Each BMP must address one or more of the MCM objectives
- Each BMP must have clearly defined measurable goals, a time frame for completion, and identified responsible organizations
- Each BMP must actively identify enhancements/modifications that will improve the MCM and overall effectiveness of the Stormwater Program

For each BMP, there are accompanying measurable goals which, once accomplished, meet the MCM objectives.

Table 2.1-1. Campuswide Outreach BMPs

ID	BMP
EO1	Outreach Materials for Faculty/Staff and Students
EO2	Storm Drain Inlet Marking
EO3	Effectiveness Assessment

SUPPORTING BEST MANAGEMENT PRACTICES

While individual, control measure-specific BMPs are the primary focus of each MCM, it is important to understand how this MCM fits within the overall SWMP. In order to adequately address all objectives of the Campuswide Education and Outreach MCM, overlap with other

MCMs is often necessary. A brief summary of the MCMs and associated activities that support the Campuswide Education and Outreach MCM is provided below.

- Campuswide Involvement and Participation (Section 2.2)
 - Outreach and informational efforts associated with participation events (e.g., clean-up days) (IP1)
 - Stormwater education workshops (IP1)
 - Stormwater working group (IP2)
 - Solicit input on stormwater program from campus community (IP2)
- Illicit Discharge Detection and Elimination (Section 2.3)
 - Campus notification systems for spills (ID1)
 - Staff information and education measures regarding illicit discharges (ID4)
- Construction Site Stormwater Controls (Section 2.4)
 - Training elements for staff and contractors (CO4)
- Planning and Design Stormwater Management (Section 2.5)
 - Training elements for staff (PD4)
- Pollution Prevention and Good Housekeeping for Campus Operations (Section 2.6)
 - Training measures for staff and contractors (PP2)

EO1 – OUTREACH MATERIALS FOR FACULTY/STAFF AND STUDENTS

Description

The Outreach Materials for Faculty/Staff and Students BMP provides information to the campus community on local waterbodies, the impact of stormwater runoff on waterbodies, and information on simple measures that can be used by members of the campus community to reduce their impact.

Existing Activities

Initially, to raise the awareness of the stormwater issues, articles were published in the EH&S newsletter. Short presentations are given by EH&S staff on stormwater issues periodically at the Quarterly Departmental Safety Coordinators Meetings. The Stormwater Management Plan is available on the EH&S website and can be accessed at the EH&S office and campus libraries.

Measurable Goals

The measurable goals listed below establish the level of effort required for this BMP.

- Make SWMP available to the public
- Develop education/outreach materials for faculty/staff and students
- Distribute education/outreach materials to faculty/staff and students
- Maintain/Update education/outreach materials for faculty/staff and students
- Include education/outreach information in new faculty/staff and student orientation materials
- Develop pollution prevention information for EH&S website and post to website
- Write an article for the EH&S newsletter or other media that reaches staff
- Identify opportunities to provide guest lectures on stormwater issues through faculty/academic programs and identify possible guest lecturers

Assessment Data and Information

The Assessment Data and Information identifies those items that should be tracked and reported as part of the Annual Progress Report and used within the program effectiveness assessments (see **EO3**). The data and information to be collected may include, but will not be limited to, the following:

- Number, types, and titles of education/outreach materials developed
- Number and types of education/outreach materials distributed, mechanism for distribution, and number of impressions made
- Summary of any updates made to education/outreach materials
- Number of new faculty/staff and student educational packages distributed containing stormwater education/outreach materials
- Hits to EH&S webpage(s) with pollution prevention information
- List of guest lecture opportunities and lecturers identified

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the measurable goals are presented in **Table 2.1-2**.

Table 2.1-2. EO1 BMP Implementation Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²			
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	DCM	FLM
Make SWMP available to the public	N	X	X	X	X	X	P			
Develop education/outreach materials for faculty/staff and students	N	X					P			
Distribute education/outreach materials to faculty/staff and students	N		X	X	X	X	P			
Maintain/Update education/outreach materials for faculty/staff and students	N			X	X	X	P			
Include education/outreach information in new faculty/staff and student orientation materials	N				X	X	P			
Develop pollution prevention information for EH&S website and post to website	N		X				P	S	S	S
Write an article for the EH&S newsletter or other media that reaches staff	N		X				P	S		S
Identify opportunities to provide guest lectures through faculty/academic programs and identify possible guest lecturers	N			X			P	S		S

¹ C – Continue; E – Enhance; N – New

² P – Primary responsibility; S – Secondary responsibility

EO2 – STORM DRAIN INLET MARKING

Description

The Storm Drain Inlet Marking BMP provides an opportunity to make an impression on the general campus community at the point where they interact directly with the campus storm drain system.

Existing Activities

UC Davis has initiated a program to mark storm drains with a stenciled or placarded message about protecting water quality, but the location and number of drain inlets marked is not currently tracked.

UC Davis maintains detailed GIS maps of the campus storm drainage systems (see **Appendix B**, 2009 UC Davis Utilities Systems Schematics Storm Drains). All major drainage lines and inlets are included in these drawings, and the drawings are continually updated as changes occur or new information is obtained. Among these maps are schematics showing the various catchment areas and outlets that are used for planning and emergency spill response.

The campus previously labeled all major storm drainage inlets and our goal is to maintain the labels at these sites. There are no locations that routinely need to be re-marked on an annual basis. The campus labels new inlets as they are constructed.

Measurable Goals

The measurable goals listed below establish the level of effort required for this BMP. The campus will provide an annual update with the total number of inlets, details on how many have already been labeled, how many were replaced, and how many were new.

- Assess current status of storm drain inlet marking
- Verify marking of campus storm drain inlets
- Continue marking of campus storm drain inlets

Assessment Data and Information

The Assessment Data and Information identifies those items that should be tracked and reported as part of the Annual Progress Report and used within the program effectiveness assessments (see **EO3**). The data and information to be collected may include, but will not be limited to, the following:

- Total number of storm drain inlets
- Total number of storm drain inlets marked at start of permit term
- Number of storm drain inlets with faded or missing stencils/placards re-marked each year
- Number of new storm drain inlets added each year

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the measurable goals are presented in **Table 2.1-3**.

Table 2.1-3. EO2 BMP Implementation Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²			
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	DCM	FLMP
Assess current status of storm drain inlet marking	N	X					S	P		
Verify marking of campus storm drain inlets	N		X					P		
Continue marking campus storm drain inlets	C	X	X	X	X	X		P		

¹ C – Continue; E – Enhance; N – New

² P – Primary responsibility; S – Secondary responsibility

EO3 – EFFECTIVENESS ASSESSMENT

Description

The Effectiveness Assessment BMP establishes the process to determine whether MCMs are resulting in the desired outcomes.

An effectiveness assessment will be conducted as part of the Annual Progress Report for the Campuswide Education and Outreach MCM to determine its effectiveness and identify necessary modifications. Although the effectiveness assessment may change from year to year as new information is learned, the assessment will initially focus on outcome levels 1-3 and may include, but not be limited to, the approach outlined in **Table 2.1-4**.

Outcome Level	Description
6	Protecting Receiving Water Quality
5	Improving Runoff Quality
4	Reducing Loads from Sources
3	Changing Behavior
2	Raising Awareness
1	Documenting Activities




Table 2.1-4. Assessment Tasks for Campuswide Outreach Minimum Control Measure

EO1 – Outreach Materials for Faculty/Staff and Students
<p>Was the MCM implemented in accordance with the SWMP BMP and measureable goals (Level 1 Outcome)?</p> <ul style="list-style-type: none"> • Made SWMP available to the public • Developed education/outreach materials for faculty/staff and students • Distributed education/outreach materials to faculty/staff and students • Maintained/Updated education/outreach materials for faculty/staff and students • Included education/outreach information in new faculty/staff and student orientation materials • Developed pollution prevention information for EH&S website and posted to website • Wrote an article for the EH&S newsletter or other media that reaches staff • Identified opportunities to provide guest lectures through faculty/academic programs and identified possible guest lecturers <p>Did the MCM raise a target audience’s awareness of an issue (Level 2 Outcome)?</p> <ul style="list-style-type: none"> • Number and types of education/outreach materials distributed, mechanism for distribution, and number of impressions made • Number of new student educational packages distributed containing stormwater education/outreach materials • Hits to EH&S webpage(s) with pollution prevention information
EO2 – Storm Drain Stenciling/Marking
<p>Was the MCM implemented in accordance with the SWMP BMP and measureable goals (Level 1 Outcome)?</p> <ul style="list-style-type: none"> • Assessed current status of storm drain inlet marking • Verified marking of campus storm drain inlets • Continued stenciling campus storm drain inlets

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the measurable goals are presented in **Table 2.1-5**.

Table 2.1-5. EO3 BMP Implementation Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²			
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	DCM	FLM
Conduct, and revise if necessary, effectiveness assessment	N	X	X	X	X	X	P	S	S	S
Identify program modifications as a result of assessment	N	X	X	X	X	X	P	P	P	P

¹ C – Continue; E – Enhance; N – New

² P – Primary responsibility; S – Secondary responsibility

2.2 Campuswide Involvement and Participation (IP)

BACKGROUND

The Campuswide Involvement and Participation Minimum Control Measure (MCM) is designed to engage the campus community in activities to protect stormwater quality and local waterways. This control measure includes partnership with the campus community and neighboring community through environmental and service-orientated events. It also provides a structure for feedback regarding the stormwater program in order to involve the campus community in the program’s development.

OBJECTIVES

The objectives of the Campuswide Involvement and Participation MCM are to:

- Organize educational workshops on stormwater quality and its impacts on local waterways
- Support community cleanup days
- Solicit input from the campus community regarding the stormwater program
- Conduct an assessment as part of the annual reporting process to determine the effectiveness of the Campuswide Involvement and Participation MCM and identify any necessary modifications

BEST MANAGEMENT PRACTICES

UC Davis proposes to implement the Best Management Practices (BMPs) outlined below in **Table 2.2-1** and discussed in the accompanying fact sheets. In developing the BMPs, several key factors were considered:

- Each BMP must address one or more of the MCM objectives
- Each BMP must have clearly defined measurable goals, a time frame for completion, and identified responsible organizations
- Each BMP must actively identify enhancements/modifications that will improve the MCM and overall effectiveness of the Stormwater Program

For each BMP, there are accompanying measurable goals which, once accomplished, meet the MCM objectives.

Table 2.2-1. Campuswide Involvement and Participation BMPs

ID	BMP
IP1	Campus Stormwater Events
IP2	Campus Community Involvement
IP3	Effectiveness Assessment Strategy

SUPPORTING BEST MANAGEMENT PRACTICES

While individual, control measure-specific BMPs are the primary focus of each MCM, it is important to understand how this MCM fits within the overall SWMP. In order to adequately address all objectives of the Campuswide Involvement and Participation MCM, overlap with other MCMs is often necessary. A brief summary of the MCMs and associated activities that support the Campuswide Involvement and Participation MCM is provided below.

- Campuswide Education and Outreach (Section 2.1)
 - Outreach to faculty, staff, and students regarding opportunities for involvement and participation in events (EO1)
 - Opportunities for guest lectures (EO1)
- Illicit Discharge Detection and Elimination (Section 2.3)
 - Provide mechanism for campus community to report illicit discharges and spills
- Planning and Design Stormwater Management (Section 2.5)
 - Convene design standards stakeholder group (PD1)
 - Revise Campus Standards & Design Guide to include recommendations of the stakeholder group (PD1)

IP1 – CAMPUS STORMWATER EVENTS

Description

The Campus Stormwater Events BMP provides opportunities for the UC Davis to partner with environmental and service organizations to offer educational outreach to the campus community and encourage active participation by the campus community in environmental or cleanup events.

Existing Activities

EH&S promotes participation in the stormwater program through participation in the Whole Earth Festival, Picnic Day, and other campus events. UC Davis owns an area of Putah Creek known as the UC Davis Putah Creek Riparian Reserve, which is managed to protect habitat. The Putah Creek Council is a community group, including students, which has a similar goal of protecting the full stretch of Putah Creek and its tributaries. UC Davis and the Putah Creek Council coordinate a cleanup in the UC Davis Putah Creek Riparian Reserve usually once a year. Additionally, for Coastal Cleanup Day, a statewide event that occurs annually in September, UC Davis coordinates with a host of local agencies including the Putah Creek Council to organize cleanups along most of Putah and Cache Creek. UC Davis has participated in Coastal Cleanup Day for over five years.

Measurable Goals

The measurable goals listed below establish the level of effort required for this BMP.

- Coordinate with campus/community environmental event organizers to organize, support, and/or participate in environmental events and volunteer campus/creek cleanup events at least once annually
- Host one workshop on the stormwater program targeted for faculty, staff, and student environmental or service organizations.

Assessment Data and Information

The Assessment Data and Information identifies those items that should be tracked and reported as part of the Annual Progress Report and used within the program effectiveness assessments (see **IP3**). The data and information to be collected may include, but will not be limited to, the following:

- List of environmental events supported, and/or participated in, including:
 - Date
 - UC Davis role
 - Number of participants (e.g., faculty, staff, and/or students)
- List of cleanup events supported, and/or participated in, including:
 - Date
 - UC Davis role
 - Number of participants (e.g., faculty, staff, and/or students)
 - How volunteers were solicited
 - Miles of stream, trails, or areas of campus cleaned up
 - Estimated volume and types of materials removed during cleanup events

- List of workshops organized and/or supported, including:
 - Date
 - UC Davis role
 - Means of advertising
 - Number of attendees (e.g., faculty, staff, and/or students)

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the measurable goals are presented in **Table 2.2-2**.

Table 2.2-2. IP1 BMP Implementation Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²			
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	DCM	FLM
Coordinate with campus/community environmental event organizers to organize, support, and/or participate in environmental events and volunteer campus/creek cleanup events at least once annually	E	X	X	X	X	X	P	S		P
Host one campus workshop on stormwater program	N	X					P	S		S

¹C – continue; E – enhance; N – new

²P – primary responsibility; S – secondary responsibility

IP2 – CAMPUS COMMUNITY INVOLVEMENT

Description

The Community Involvement BMP provides an opportunity for the campus community to comment on the Stormwater Management Plan and submit questions and comments regarding the Stormwater Management Program.

Existing Activities

UC Davis provides information on what constitutes an illicit discharge on its EH&S website² and provides a link³ to an electronic form, *Report of an Illicit Discharge into the Campus Storm Drain System*, through which the campus community can report illicit discharges to EH&S (see IP3). This encourages the community to recognize and take action to prevent stormwater pollution.

Measurable Goals

The measurable goals listed below establish the level of effort required for this BMP.

- Provide mechanism for campus community to report illicit discharges (see also ID3)
- Identify target audiences for participation in stormwater program working group and means to advertise group to potential participants
- Convene stormwater program working group
- Identify mechanisms for soliciting questions and comments on stormwater program from campus community
- Solicit questions and comments on stormwater program from the campus community

Assessment Data and Information

The Assessment Data and Information identifies those items that should be tracked and reported as part of the Annual Progress Report and used within the program effectiveness assessments (see IP3). The data and information to be collected may include, but will not be limited to, the following:

- Summary of meetings of stormwater program working group held each year, including (*for each*):
 - Date
 - Number of participants and target audiences represented
 - Topics covered
- Number of questions/comments received annually via each mechanism used, organized by MCM

² <http://safetyservices.ucdavis.edu/environmental-health-safety/environmental/water-1/report-of-an-illicit-discharge-into-the-campus-storm-drain-system>

³ http://safetyapps.ucdavis.edu/ehs/hazreport/env_water_rpt_form.cfm

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the measurable goals are presented in **Table 2.2-3**.

Table 2.2-3. IP2 BMP Implementation Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²				
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	DCM	FLM	Student Housing
Provide mechanism for campus community to report illicit discharges	C	X	X	X	X	X	P	S	S	S	S
Identify target audiences for participation in stormwater program working group and mechanisms to advertise group to potential participants	N	X					P	S	S	S	
Convene stormwater program working group	N		X	X	X	X	P				
Identify methods to solicit questions and comments on stormwater program from campus community	N	X					P	S	S	S	S
Solicit questions and comments on stormwater program from campus community	N		X	X	X	X	P				

¹C – continue; E – enhance; N – new

²P – primary responsibility; S – secondary responsibility

IP3 – EFFECTIVENESS ASSESSMENT

Description

The Effectiveness Assessment BMP establishes the process to determine whether MCMs are resulting in the desired outcomes.

An effectiveness assessment will be conducted as part of the Annual Progress Report for the Campuswide Involvement and Participation MCM to determine its effectiveness and identify necessary modifications. Although the effectiveness assessment may change from year to year as

new information is learned, the assessment will initially focus on outcome levels 1-3 and may include, but not be limited to, the approach outlined in **Table 2.2-4**.

Outcome Level	Description
6	Protecting Receiving Water Quality
5	Improving Runoff Quality
4	Reducing Loads from Sources
3	Changing Behavior
2	Raising Awareness
1	Documenting Activities

Table 2.2-4. Assessment Tasks for Campuswide Involvement and Participation Minimum Control Measure

IP1 – Campus Stormwater Events
<p>Was the MCM implemented in accordance with the SWMP BMP and measureable goals (Level 1 Outcome)?</p> <ul style="list-style-type: none"> Coordinated with campus/community environmental event organizers to organize, support, and/or participate in environmental events and volunteer campus/creek cleanup events at least once annually Hosted one campus workshop on stormwater program <p>Did the MCM raise a target audience’s awareness of an issue (Level 2 Outcome)?</p> <ul style="list-style-type: none"> Number of faculty, staff, and students participating in each event (including how solicited)—year to year, percent change over time Estimated volume and types of materials removed during cleanup events—year to year, percent change over time
IP2 – Community Involvement
<p>Was the MCM implemented in accordance with the SWMP BMP and measureable goals (Level 1 Outcome)?</p> <ul style="list-style-type: none"> Provided mechanism for campus community to report illicit discharges (see also ID3) Identified target audiences for participation in stormwater program working group and means to advertise group to potential participants Convened stormwater program working group Identified mechanisms for soliciting questions and comments on stormwater program from campus community Solicited questions and comments on stormwater program from the campus community <p>Did the MCM raise a target audience’s awareness of an issue (Level 2 Outcome)?</p> <ul style="list-style-type: none"> Number of participants in stormwater program working group from various target audiences—year to year, percent change over time Number of questions/comments received annually via each mechanism used, organized by MCM

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the performance standards are presented in **Table 2.2-5**.

Table 2.2-5. IP3 BMP Implementation Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²				
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	DCM	FLM	Student Housing
Conduct, and revise if necessary, effectiveness assessment	N	X	X	X	X	X	P	S	S	S	S
Identify program modifications as a result of assessment	N	X	X	X	X	X	P	P	P	P	P

¹C – continue; E – enhance; N – new

²P – primary responsibility; S – secondary responsibility

2.3 Illicit Discharge Detection and Elimination (ID)

BACKGROUND

The Illicit Discharge Detection and Elimination Minimum Control Measure (MCM) defines illicit discharges, identifies a plan to detect illicit discharges and connections, and outlines policies and sanctions to address illicit discharges. The ultimate goal of these actions is to prevent and control illicit discharges to the storm drain system.

OBJECTIVES

The objectives of the Illicit Discharge Detection and Elimination MCM are to:

- Detect illicit discharges and connections to the storm drain system
- Map the storm drain system
- Train staff to respond to illicit discharges and connections
- Develop policies and sanctions to discourage illicit discharges and connections
- Reduce illicit discharges and connections to the storm drain system
- Conduct an assessment as part of the annual reporting process to determine the effectiveness of the Illicit Discharge Detection and Elimination MCM and identify any necessary modifications.

BEST MANAGEMENT PRACTICES

UC Davis proposes to implement the BMPs outlined below in **Table 2.3-1** and discussed in the accompanying fact sheets. In developing the BMPs, several key factors were considered:

- Each BMP must address one or more of the MCM objectives
- Each BMP must have clearly defined measurable goals, a time frame for completion, and identified responsible organizations
- Each BMP must actively identify enhancements/modifications that will improve the MCM and overall effectiveness of the Stormwater Program

For each BMP, there are accompanying measurable goals which, once accomplished, meet the MCM objectives.

Table 2.3-1. Illicit Discharge Detection and Elimination BMPs

ID	BMP
ID1	Illicit Discharges and Connections Detection and Prevention
ID2	Storm Drain System Mapping
ID3	Illicit Discharge and Spill Response
ID4	Training
ID5	Effectiveness Assessment Strategy

SUPPORTING BEST MANAGEMENT PRACTICES

While individual, control measure-specific BMPs are the primary focus of each MCM, it is important to understand how this MCM fits within the overall SWMP. In order to adequately

address all objectives of the Illicit Discharge Detection and Elimination MCM, overlap between other MCM is often necessary. A brief summary of MCMs that support the Illicit Discharge Detection and Elimination MCM is provided below.

- Campuswide Outreach (Section 2.1)
 - Outreach materials for faculty/staff and students (EO1)
 - Storm drain inlet marking (EO2)
- Campuswide Involvement and Participation (Section 2.2)
 - Stormwater education workshop (IP1)
 - Campus stormwater working group (IP2)
 - Reporting of illicit discharges and spills (IP2)
- Construction Site Stormwater Controls (Section 2.4)
 - Requiring SWPPPs for construction project (CO1)
 - Inspecting construction sites (CO3)
 - Training activities for staff and contractors (CO4)
- Planning and Design Stormwater Management (Section 2.5)
 - Incorporating planning and design (post-construction) BMPs into campus policies and standards (PD 1)
 - Incorporating planning and design (post-construction) BMPs into development projects (PD2)
 - Long-term maintenance of planning and design (post-construction) BMPs (PD3)
 - Training for staff on planning and design (post-construction) BMPs (PD4)
- Pollution Prevention and Good Housekeeping for Campus Operations (Section 2.6)
 - Development of BMPs for campus operations (PP1)
 - Training activities for staff and contractors to prevent illicit discharges (PP2)

AUTHORIZED DISCHARGES

Illicit discharges are defined as unauthorized non-stormwater discharges. Essential to identifying illicit discharges is recognizing that several categories of non-stormwater discharges are not prohibited, provided that they are not significant sources of pollutants to waters of the United States (US). The non-stormwater discharges listed in **Table 2.3-2** are authorized.

Table 2.3-2. Authorized Non-Stormwater Discharges

Water line flushing, and other discharges from potable water sources (1,7, ¹)	Water from foundation and footing drains, crawl space pumps, and (8, 12, 13)
Landscape irrigation and lawn watering (2, 10, 14)	Air conditioning condensation (9)
Diverted stream flows or rising ground waters (3, 4)	Springs or flows from riparian habitats and wetlands (11,16)
Uncontaminated groundwater infiltration (5)	Uncontaminated pumped ground water (6)

¹: The parenthetical numbers refer to the items in Order 2003-05-DWQ

When a discharge category is identified as a significant source of pollutants to waters of the US, the discharge is prohibited unless BMPs are implemented that will reduce pollutants to the

maximum extent practicable. Other non-stormwater discharges are illicit unless separately permitted by a general or individual NPDES permit. Illicit connections are a subset of illicit discharges and are undocumented physical connections to the storm drain system. The BMPs in this MCM relate to illicit discharges and connections only.

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ID1 – ILLICIT DISCHARGES AND CONNECTIONS DETECTION AND PREVENTION

Description

The purpose of the Illicit Discharges and Connections Detection and Prevention BMP is to ensure that UC Davis is proactive in identifying and preventing problematic discharges. This BMP includes a mechanism for receiving water pollution complaints and preventing illicit discharges through contracts.

Existing Activities

UC Davis provides trained staff to properly transport and manage chemical and radioactive wastes. Use of trained staff for management of these waste materials minimizes the potential for accidental spills or unintentional illicit discharges.

UC Davis provides information on what constitutes an illicit discharge on its EH&S website⁴ and provides a link⁵ to an electronic form, *Report of an Illicit Discharge into the Campus Storm Drain System*, through which the campus community can report illicit discharges to EH&S (see ID3). This encourages the community to recognize and take action to prevent stormwater pollution. UC Davis staff follow-up on all water pollution complaints.

In addition, UC Davis has a Sewer System Management Plan (SSMP) that provides a plan and schedule to maintain the sanitary sewer with the goal of preventing sewer system overflows (SSOs) and mitigating any SSOs that do occur. The SSMP addresses prevention through fats, oils, and grease (FOG) outreach and grease trap inspections. It also includes guidelines for the rehabilitation of sewer pipes and sewer lift stations and collection system line maintenance. The SSMP addresses mitigation of SSOs through an Overflow Emergency Response Plan (OERP). The OERP outlines the responsibilities of FM and EH&S to contain, clean up, and report SSOs.

Measurable Goals

The measurable goals listed below establish the level of effort required for this BMP.

Campus Illicit Discharge Policy and Notification System

- Evaluate the need for a campus policy concerning non-stormwater discharges, and develop if needed
- Maintain campus notification system for sewage spills and other types of spills
- Provide mechanism for campus community to report illicit discharges

Maintenance Contracts

- Develop standard contract language regarding illicit discharges
 - Evaluate contracts (e.g., construction, food service, landscaping, painting, and other types of maintenance) for waste disposal requirements

⁴ <http://safetyservices.ucdavis.edu/environmental-health-safety/environmental/water-1/report-of-an-illicit-discharge-into-the-campus-storm-drain-system>

⁵ http://safetyapps.ucdavis.edu/ehs/hazreport/env_water_rpt_form.cfm

- Revise contracts as necessary to prohibit illicit waste disposal

Assessment Data and Information

The Assessment Data and Information identifies those items that should be tracked and reported as part of the Annual Progress Report and used within the program effectiveness assessments (see **ID5**). The data and information to be collected may include, but will not be limited to, the following:

- Summary of campus policy concerning non-stormwater discharges
- Description of campus notification system for spills
- Number of water pollution complaints/illicit discharges received with location, pollutants/activities involved
- Summary of revisions made to maintenance contracts
- Number of illicit discharges reported from maintenance contract jobs

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the performance standards are presented in **Table 2.3-3**.

Table 2.3-3. ID1 BMP Implementation Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²					
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S (other)	FM (sewage)	DCM	FLM	Campus Food Service	Student Housing
Campus Illicit Discharge Policy, Notification System, and Action Plan												
Evaluate and develop campus policy concerning non-stormwater discharges	N		X				P	S	S	S	S	S
Maintain campus notification system for sewage spills and other types of spills	C	X	X	X	X	X	P	P				
Provide mechanism for campus community to report illicit discharges	C	X	X	X	X	X	P					
Maintenance Contracts												
Evaluate contracts for waste disposal requirements	N	X	X	X	X	X	S	P	P	P	P	P
Revise contracts as necessary to prohibit illicit waste disposal	N	X	X	X	X	X	S	P	P	P	P	P

¹C – Continue; E – Enhance; N – New

²P – Primary responsibility; S – Secondary responsibility

ID2 – STORM DRAIN SYSTEM MAPPING

Description

The Storm Drain System Mapping BMP outlines steps which will establish the location of storm drains and outfalls in order to better prevent illicit discharges from entering the storm drain system and receiving waters.

Existing Activities

UC Davis maintains a storm drain system map that includes locations of storm drains and outfalls to receiving waters (see **Appendix B** 2009 UC Davis Utilities System Schematics Storm Drains). The map was last updated in September 2009.

Measureable Goals

The measurable goals listed below establish the level of effort required for this BMP.

- Review campus storm drain system maps and evaluate need for revision
- Identify outfalls to Arboretum Waterway and Putah Creek
- Update campus facilities storm drain system maps as needed

Assessment Data and Information

The Assessment Data and Information identifies those items that should be tracked and reported as part of the Annual Progress Report and used within the program effectiveness assessments (see **ID5**). The data and information to be collected may include, but will not be limited to, the following:

- Maps(s) of storm drain system
- Number of storm drain inlets
- Number and locations (e.g., coordinates) of outfalls to receiving waters
- Total length of channels/pipes

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the measurable goals are presented in **Table 2.3-4**.

Table 2.3-4. ID2 BMP Implementation Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²			
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	DCM	FLM
Review campus storm drain system maps and evaluate need for revision	C	X	X	X	X	X		P	P	
Identify outfalls to Arboretum Waterway and Putah Creek	C	X	X					P		
Update campus storm drain system map as needed	C	X	X	X	X	X		P		

¹C – Continue; E – Enhance; N – New

²P – Primary responsibility; S – Secondary responsibility

ID3 – ILLICIT DISCHARGE AND SPILL RESPONSE

Description

The Illicit Discharge and Spill Response BMP will formalize a plan to evaluate campus discharge policies for the campus community and contractors as well as develop spill response procedures and sanctions.

Existing Activities

UC Davis has a well-established system for responding to reports of spills, including sewage spills, non-hazardous spills, and hazardous spills. Designated EH&S staff provide on-call services during and after business hours to support first responders, investigate spills, and ensure follow-up actions are taken. During the business day, reports of spills and illicit discharges are responded to immediately. After hours, on-call staff are available by phone or in person, as required by the emergency dispatcher or Incident Commander.

To provide guidelines for responding to spills, the UC Davis Sewer System Management Plan addresses mitigation of SSOs through an Overflow Emergency Response Plan (OERP). The OERP outlines the responsibilities of FM and EH&S to contain and clean up SSOs.

Measureable Goals

The measurable goals listed below establish the level of effort required for this BMP.

- Respond to illicit discharges and spills
- Develop policies and sanctions for illicit discharges

Assessment Data and Information

The Assessment Data and Information identifies those items that should be tracked and reported as part of the Annual Progress Report and used within the program effectiveness assessments (see **ID5**). The data and information to be collected may include, but will not be limited to, the following:

- Number and locations of water pollution complaints responded to and verified, by source:
 - Anonymous complaints
 - Notifications/complaints from the campus community
 - Notifications from the UC Davis Police/Fire Command Center
 - Notifications from FM
- Types of pollutants and activities involved in the water pollution complaints verified
- Number of illicit discharges/spills requiring clean up or follow-up activities
- Summary of policies and sanctions for illicit discharges

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the measurable goals are presented in **Table 2.3-5**.

Table 2.3-5. ID3 BMP Implementation Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²			
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	DCM	Fire Department
Respond to illicit discharge and spills	C	X	X	X	X	X	P	P		P
Develop policies and sanctions for illicit discharges	N			X			P	P		P

¹C – Continue; E – Enhance; N – New

²P – Primary responsibility; S – Secondary responsibility

ID4 – TRAINING

Description

Training is important to the successful implementation of the Illicit Discharge Detection and Elimination MCM. An effective training program is one of the best pollution prevention BMPs that can be implemented because it prompts behavioral changes that are fundamentally necessary to protect water quality.

Existing Activities

The UC Davis Fire Department is the campus First Responder for spills of hazardous materials. Depending on the situation, additional technical resources from EH&S and FM are used if the spill impacts the storm water conveyance system. Typically, EH&S staff are trained within 30 to 90 days of employment and receive follow-up refresher training every one to two years. Campus First Responders receive the appropriate OSHA-required First Responder training.

Measurable Goals

The measurable goals listed below establish the level of effort required for this BMP.

- Develop/Identify training for key staff involved in the Illicit Discharge Detection and Elimination MCM
- Provide training for key staff involved in the Illicit Discharge Detection and Elimination MCM.

Potential specific areas of focus for the training efforts for the Illicit Discharge Detection and Elimination MCM are summarized in **Table 2.3-6**.

Table 2.3-6. Illicit Discharge Detection and Elimination MCM Potential Training Modules

Training Module	Audience	Format	Subject Material
Illicit Discharge Detection and Response	<ul style="list-style-type: none"> • EH&S staff • On-call staff • UC Davis Police • UC Davis Fire • FM staff • Campus Food Service • Student Housing 	<ul style="list-style-type: none"> • TBD¹ 	<ul style="list-style-type: none"> • Overview of stormwater management • Illicit discharge identification and elimination • Response and notification • Phase II Permit Standard Provisions

¹ Format to-be-determined (TBD). Appropriate format will be selected for the audience and subject, may include classroom training, field demonstrations, tailgate meetings, briefing sheets, videos, web-based or computer-based training.

Assessment Data and Information

The Assessment Data and Information identifies those items that should be tracked and reported as part of the Annual Progress Report and used within the program effectiveness assessments (see ID5). The data and information to be collected may include, but will not be limited to, the following:

- List of modules developed
- Number, dates, and types of training sessions held
- Number of attendees at each session and the Department for which they work
- Results of pre- and post-training surveys

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the measurable goals are presented in **Table 2.3-7**.

Table 2.3-7. ID4 BMP Implementation Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²				
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	DCM	FLM	Fire Department
Develop/Identify training for key staff involved in the Illicit Discharge Detection and Elimination MCM	N	X					P	P			P
Provide training for key staff involved with Illicit Discharge Detection and Response ⁶	N		X	X	X	X	P	P			P

¹C – Continue; E – Enhance; N – New

²P – Primary responsibility; S – Secondary responsibility

⁶ Training will be focused on the work units and departments. All staff will not be trained each year, but training will be rotated amongst the target audiences.

ID5 – EFFECTIVENESS ASSESSMENT

Description

The Effectiveness Assessment BMP establishes the process to determine whether MCMs are resulting in the desired outcomes.

An effectiveness assessment will be conducted as part of the Annual Progress Report for the Illicit Discharges Detection and Elimination MCM to determine its effectiveness and identify necessary

modifications. Although the effectiveness assessment may change from year to year as new information is learned, the assessment will initially focus on outcome levels 1-3 and may include, but not be limited to, the approach outlined in **Table 2.3-8**.

Outcome Level	Description
6	Protecting Receiving Water Quality
5	Improving Runoff Quality
4	Reducing Loads from Sources
3	Changing Behavior
2	Raising Awareness
1	Documenting Activities

Table 2.3-8. Assessment Tasks for Illicit Discharge Detections and Elimination Minimum Control Measure

ID1 – Illicit Discharges and Connections Detection and Prevention
<p>Was the MCM implemented in accordance with the SWMP BMP and measureable goals (Level 1 Outcome)?</p> <p><i>Campus Illicit Discharge Policy and Notification System</i></p> <ul style="list-style-type: none"> • Evaluated and developed campus policy concerning non-stormwater discharges • Maintained campus notification system for sewage spills and other types of spills • Provided mechanism for campus community to report illicit discharges <p><i>Maintenance Contracts</i></p> <ul style="list-style-type: none"> • Developed standard contract language regarding illicit discharges • Evaluated contracts (e.g., construction, food service, landscaping, painting, and other types of maintenance) for waste disposal requirements • Revised contracts as necessary to prohibit illicit waste disposal <p>Did the MCM raise a target audience’s awareness of an issue (Level 2 Outcome)?</p> <ul style="list-style-type: none"> • Identified number of water pollution complaints/illicit discharges received, location, pollutants/activities involved, and percent from each source (e.g., campus spill notification system, electronic form) • Number of illicit discharges reported from maintenance contract jobs—year to year
ID2 – Storm Drain System Mapping
<p>Was the MCM implemented in accordance with the SWMP BMP and measureable goals (Level 1 Outcome)?</p> <ul style="list-style-type: none"> • Reviewed campus storm drain system maps and evaluate need for revision • Identified outfalls to Arboretum Waterway and Putah Creek • Updated campus facilities storm drain system maps as needed

Table 2.3-8. Assessment Tasks for Illicit Discharge Detections and Elimination Minimum Control Measure (cont'd)

ID3 – Illicit Discharge and Spill Response
<p>Was the MCM implemented in accordance with the SWMP BMP and measureable goals (Level 1 Outcome)?</p> <ul style="list-style-type: none"> • Responded to illicit discharges and spills • Developed policies and sanctions for illicit discharges <p>Did the MCM raise a target audience’s awareness of an issue (Level 2 Outcome)?</p> <ul style="list-style-type: none"> • Number and percent of water pollution complaints/illicit discharges that were responded to—year to year • Number of verified complaints—year to year, total and percent from each source • Number of complaints correlated with trainings—year to year
ID4 - Training
<p>Was the MCM implemented in accordance with the SWMP BMP and measureable goals (Level 1 Outcome)?</p> <ul style="list-style-type: none"> • Developed/Identified training for key staff involved in the Illicit Discharge Detection and Elimination MCM • Provided training for key staff involved in the Illicit Discharge Detection and Elimination MCM: Illicit Discharge Detection and Response <p>Did the MCM raise a target audience’s awareness of an issue (Level 2 Outcome)?</p> <ul style="list-style-type: none"> • Percent increase in awareness before and after training sessions <p>Did the MCM change a target audience’s behavior which results in implementation of recommended BMPs (Level 3 Outcome)?</p> <ul style="list-style-type: none"> • Number of illicit discharges reported correlated to training—percent year to year

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the performance standards are presented in **Table 2.3-9**.

Table 2.3-9. ID5 BMP Implementation Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²						
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	DCME	FLM	Campus Food Service	Student Housing	Fire Department
Conduct, and revise if necessary, effectiveness assessment	N	X	X	X	X	X	P	S	S	S	S	S	S
Identify program modifications as a result of assessment	N	X	X	X	X	X	P	P	P	P	P	P	P

¹C – Continue; E – Enhance; N – New

²P – Primary responsibility; S – Secondary responsibility

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2.4 Construction Site Stormwater Controls (CO)

BACKGROUND

During construction projects, a number of activities may generate or mobilize pollutants. The purpose of the Construction Site Stormwater Controls Minimum Control Measure (MCM) is to coordinate campus programs and resources to effectively minimize generation and mobilization of pollutants in runoff from construction sites during all phases of construction.

OBJECTIVES

The objectives of the Construction Site Stormwater Controls MCM are to:

- Ensure that UC Davis has adequate policies, procedures, and a mechanism for contract compliance to control pollutants from construction sites with land disturbances greater than or equal to one acre
- Review site plans and SWPPPs for compliance with Construction General Permit and UC Davis requirements
- Conduct inspections of construction sites on a regular basis to ensure that construction site contractors are implementing Best Management Practices (BMPs)
- Educate staff involved with Construction about the need for and requirements to implement BMPs for different construction-related activities
- Conduct an assessment as part of the annual reporting process to determine the effectiveness of the Construction Site Stormwater Controls MCM and identify any necessary modifications

CONSTRUCTION GENERAL PERMIT REQUIREMENTS

The Construction General Permit was reissued by the State Water Board on September 2, 2009, and will become effective July 1, 2010. The Construction General Permit requires most dischargers⁷ where construction activity disturbs an area of one acre or more to:

- Develop and implement a SWPPP, which specifies BMPs that will prevent construction pollutants from contacting stormwater and that have the intent of keeping all products of erosion from moving off-site into receiving waters
- Eliminate or reduce non-stormwater discharges from storm drain systems and other waters of the US
- Ensure SWPPPs are developed and written by a Qualified SWPPP Developer (QSD)
- Ensure a Qualified SWPPP Practitioner (QSP) will perform and/or supervise all inspections, sampling and BMP implementation and maintenance
- Perform inspections of all BMPs

⁷ The Construction General Permit defines construction activities that are covered and not covered by the permit. In general disturbance of one or more acres requires coverage under the Construction General Permit; however some types of projects, such as routine maintenance, do not require a permit. UC Davis will follow the definitions in the Construction General Permit for determining the need for coverage under the Construction General Permit. For simplicity, this SWMP refers in general to the one-acre threshold as the trigger for Construction General Permit requirements.

As part of a 2001 agreement with the Regional Water Board, UC Davis filed for coverage under the Construction General Permit as a common plan of development for the contiguous Davis campus, and UC Davis required contractors conducting ground-disturbing projects to prepare and implement project-specific storm water pollution prevention plans (SWPPPs) for construction activities associated with the respective projects.

With the adoption of the 2009 Construction General Permit, the Regional Water Board has informed UC Davis that the common plan of development campuswide permit will be rescinded as of July 1, 2010, (the effective date of the 2009 Construction General Permit). As of July 1, 2010, currently permitted projects and new projects that are one-acre or larger, will obtain project-by project coverage under the Construction General Permit.

BEST MANAGEMENT PRACTICES

UC Davis proposes to implement the BMPs outlined below in **Table 2.4-1** and discussed in the accompanying fact sheets. In developing the BMPs, several key factors were considered:

- Each BMP must address one or more of the MCM objectives
- Each BMP must have clearly defined measurable goals, a time frame for completion, and identified responsible organizations
- Each BMP must actively identify enhancements/modifications that will improve the MCM and overall effectiveness of the Stormwater Program

For each BMP, there are accompanying measurable goals which, once accomplished, meet the MCM objectives.

Table 2.4-1. Construction Site Stormwater Controls BMPs

ID	BMP
CO1	Campus Construction Site Stormwater Policies and Standards
CO2	Plan Review and Approval Process
CO3	Construction Site BMP Implementation and Inspection
CO4	Training
CO5	Effectiveness Assessment

SUPPORTING BEST MANAGEMENT PRACTICES

While individual, control measure-specific BMPs are the primary focus of each MCM, it is important to understand how this MCM fits within the overall SWMP. In order to adequately address all objectives of the Construction Site Stormwater Controls MCM, overlap with other MCMs is often necessary. A brief summary of the MCMs and associated BMPs that support the Construction Site Stormwater Controls MCM is provided below.

- Campuswide Education and Outreach (Section 2.1)
 - Education materials for students, faculty, and staff (EO1)
- Illicit Discharge Detection and Elimination (Section 2.3)
 - Evaluate and revise construction contracts to prohibit illicit discharges (ID1)
 - Training for staff on illicit discharge detection (ID4)
- Planning and Design Stormwater Management (Section 2.5)
 - Inspect post-construction BMPs during construction (PD3)

- Pollution Prevention and Good Housekeeping for Campus Operations (Section 2.6)
 - Develop BMPs for campus operations (those related to construction) (PP1)

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CO1 – CAMPUS CONSTRUCTION SITE STORMWATER POLICIES AND STANDARDS

Description

The goal of the Campus Construction Site Stormwater Policies and Standards BMP is to ensure that UC Davis has adequate policies, procedures, and a mechanism for contract compliance to control pollutants from construction sites with land disturbances greater than or equal to one acre. This authority is provided through the *Campus Standards & Design Guide* and erosion and sediment control standards.

Existing Activities

UC Davis has developed SWPPP specifications for inclusion in construction or maintenance project contracts (see, *Campus Standards & Design Guide, IV Standard Specifications, Division 1, Section 015723 Storm Water Pollution Prevention 06 07*)⁸. The specifications:

- Identify construction activities that have the potential to impact water quality
- Outline the procedures for preparing and implementing a SWPPP
- Refer to the California Stormwater Quality Association (CASQA) BMPs as well as campus-specific requirements

The specifications include sediment and erosion control BMPs and site pollution controls. Design and Construction Management (DCM) project managers include these SWPPP specifications in contractor bids and contracts. Currently, contractors are required to submit a New Construction Project Information Form as well as a SWPPP (see CO2). Use of the New Construction Project Information Form will terminate on June 30, 2010, to coincide with the July 1, 2010, effective date of the 2009 Construction General Permit).

Measurable Goals

The measurable goals listed below establish the level of effort required for this BMP.

SWPPPs

- Maintain a campus-recommended SWPPP format for construction projects
- Require construction projects to submit project-specific SWPPPs in the recommended format
- Review the revised CASQA SWPPP format
- Update the recommended SWPPP format in the *Campus Standards & Design Guide* Standard Specifications to meet the requirements of the 2009 Construction General Permit

⁸ This document is updated regularly, to view the most current version go to:

<http://ww2.ae.ucdavis.edu/CSDG/CSDG/IV%20Standard%20Specifications/Division%201/01%2057%2023%20Storm%20Water%20Pollution%20Prevention%2006%2007.pdf>.

Sediment and Erosion Control BMPs

- Require construction projects to implement sediment and erosion control BMPs and site pollution controls as outlined in the *Campus Standards & Design Guide*
- Review and evaluate construction contract specifications (*Campus Standards & Design Guide*) concerning sediment and erosion control BMPs and site pollution control requirements (management of construction materials; waste materials; washout/washdown containment; chemicals; fuel; litter; sanitary waste) for consistency with the 2009 Construction General Permit
- Review and modify construction contract specifications (*Campus Standards & Design Guide*) as needed to ensure sediment and erosion control BMPs and site pollution controls continue to be required

Assessment Data and Information

The Assessment Data and Information identifies those items that should be tracked and reported as part of the Annual Progress Report and used within the program effectiveness assessments (see **CO5**). The data and information to be collected may include, but will not be limited to, the following:

- Summary of any revisions made to the campus recommended SWPPP format
- Number of construction projects requiring SWPPPs
- Number of construction sites greater than or equal to one acre that submitted a SWPPP
- Summary of any changes made to the *Campus Standards & Design Guide* stormwater pollution prevention requirements

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the measurable goals are presented in **Table 2.4-2**.

Table 2.4-2. CO1 BMP Implementation Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²			
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	DCM	FLM
SWPPPs										
Maintain a campus-recommended SWPPP format for construction projects	C	X	X	X	X	X	P	S	S	
Require construction projects to submit project-specific SWPPPs in the recommended format	C	X	X	X	X	X	S	P	P	
Review the revised CASQA SWPPP format	N	X					P	S	S	
Update the recommended SWPPP format in the <i>Campus Standards & Design Guide</i> to meet the requirements of the revised Construction General Permit	N	X					P	S	S	
Sediment and Erosion Control BMPs										
Require construction projects to implement sediment and erosion control BMPs and site pollution controls as outlined in the <i>Campus Standards & Design Guide</i>	C	X	X	X	X	X	S	P	P	
Review and evaluate construction contract specifications concerning sediment and erosion control BMPs and site pollution control requirements for consistency with the 2009 Construction General Permit	N	X					S	P	P	
Review and modify construction contract specifications as needed to ensure sediment and erosion control BMPs and site pollution controls continue to be required	N	X	X	X	X	X	S	P	P	

¹C – Continue; E – Enhance; N – New

²P – Primary responsibility; S – Secondary responsibility

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CO2 – SWPPP REVIEW PROCESS

Description

Effective planning of construction site activities leads to minimizing erosion and preventing pollutants from entering the storm drain system. The goal of the SWPPP Review Process BMP is to ensure that UC Davis requires projects that disturb greater than or equal to one acre of land to consider water quality impacts during the planning and construction phases of the project.

Existing Activities

Site designs must conform to the UC Davis' *Campus Standards & Design Guide*. This includes design requirements for storm drainage *Part II Design Requirements 08*⁹. In addition, in accordance with the *Campus Standards & Design Guide, IV Standard Specifications, Division 1, Section 015723 Storm Water Pollution Prevention 06 07* contractors are required to submit the following to the UC Davis Representative:

- New Construction Project Information Form must be submitted prior to ground breaking. This form is required for compliance with the campus-wide construction stormwater permit. Use of the New Construction Project Information form will terminate on June 30, 2010, to coincide with the July 1, 2010, effective date of the 2009 Construction General Permit.
- Storm Water Pollution Prevention Plan (SWPPP). Currently, UC Davis recommends the use of the CASQA SWPPP template.¹⁰ Copies of the SWPPP must be submitted to the University's Representative prior to ground breaking. The SWPPP must contain all required elements specified in the Construction General Permit. UC Davis provides a worksheet to assist project contractors with completion of the SWPPP. Use of Exhibit 34A, Storm Water Pollution Prevention Plan Worksheet will terminate on June 30, 2010 to coincide with the July 1, 2010, effective date of the 2009 Construction General Permit.

Prior to commencement of site work, EH&S reviews SWPPPs to assess potential water quality impacts and ensure that erosion and sediment control BMPs are identified. Site work may not begin until the SWPPP has been reviewed and accepted by EH&S.

UC Davis plans to evaluate its current SWPPP review process and update it based upon the changes stemming from the 2009 Construction General Permit. Some of the process changes anticipated include:

- Contractor submittal requirements
 - Draft Permit Registration Documents (PRDs)
 - SWPPP (based upon the SWPPP outline in the 2009 CASQA Construction BMP Handbook/Portal)
- Submittal review

⁹ This document is updated regularly, to view the most current version go to: <http://ww2.ae.ucdavis.edu/CSDG/CSDG/II%20Design%20Requirements/Part%20II%20Design%20Requirements%2008.pdf>.

¹⁰ This template can be downloaded from the CASQA website at <http://www.cabmphandbooks.org/Construction.asp>

- EH&S will review the PRDs and SWPPPs to assess potential water quality impacts and ensure that erosion and sediment control BMPs are identified
- PRD submission
 - UC Davis will submit PRDs, including the SWPPP, to the State Water Board, once they have been accepted by EH&S
 - Site work may not begin until the PRDs have been submitted and the WDID number has been received from the State Water Board

Measurable Goals

The measurable goals listed below establish the level of effort required for this BMP.

- Revise SWPPP and PRD review and submittal processes
- Review PRDs and SWPPPs

Assessment Data and Information

The Assessment Data and Information identifies those items that should be tracked and reported as part of the Annual Progress Report and used within the program effectiveness assessments (see CO5). The data and information to be collected may include, but will not be limited to, the following:

- Summary of revised PRD and SWPPP review and submittal processes
- Number of construction sites requiring a SWPPP
- Number of PRDs/SWPPPs submitted
- Number of PRDs/SWPPPs reviewed

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the measurable goals are presented in **Table 2.3-3**.

Table 2.4-3. CO2 BMP Implementation Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²			
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S (SWPPPs)	FM	DCM	FLM
Revise SWPPP and PRD review and submittal processes	N	X					P	P	P	
Review PRDs/SWPPPs	E	X	X	X	X	X	S	P	P	

¹C – Continue; E – Enhance; N – New ²P – Primary responsibility; S – Secondary responsibility

CO3 – CONSTRUCTION SITE BMP IMPLEMENTATION AND INSPECTION

Description

The purpose of the Construction BMP Implementation and Inspection BMP is to ensure that appropriate BMPs are implemented at construction sites to prevent pollutants from being discharged to the storm drain system. Construction site BMP implementation is accomplished through a combined approach of requiring BMPs at construction sites; educating contractors about the needs and requirements to implement BMPs for construction activities; reviewing plans and SWPPPs to ensure that stormwater controls have been considered; and ensuring through inspection and follow-up that contractors have a construction SWPPP and are implementing identified BMPs.

Existing Activities

UC Davis requires all construction contractors to comply with stormwater pollution prevention requirements (see CO1 and CO2). UC Davis project managers from Design and Construction Management (DCM) include these requirements in construction bids and contracts.

Inspections

UC Davis requires contractors to perform the routine stormwater inspections required by the Construction General Permit.

Campus project inspectors from DCM have been trained by EH&S to inspect construction projects for compliance with contract and stormwater requirements. DCM has developed standard inspection forms for all storm water and water quality BMPs. DCM inspectors ensure that the Contractor inspects the project site at required intervals, and that BMPs are maintained. Routine inspection by DCM personnel review overall site conditions and need for additional BMPs.

EH&S staff can inspect construction sites to ensure compliance with environmental laws and regulations at any time. Typically, these inspections are coordinated through the DCM project manager and any discrepancies that are found are reported to the DCM project manager for correction.

Corrective Actions and Sanctions

Construction contracts require the Contractor to comply with the conditions *Campus Standards & Design Guide, IV Standard Specifications, Division 1, Section 015723 Storm Water Pollution Prevention 06 07*). If a contractor refuses to comply, UC Davis may have the corrective work done by others and back-charge the Contractor for the costs.

Campus Community Complaint/Response

The campus community also has a role in ensuring construction sites are in compliance with stormwater pollution prevention requirements. UC Davis provides information on what constitutes an illicit discharge on its EH&S website¹¹ and provides a link¹² to a form, *Report of*

¹¹ <http://safetyservices.ucdavis.edu/environmental-health-safety/environmental/water-1/report-of-an-illicit-discharge-into-the-campus-storm-drain-system>

an Illicit Discharge into the Campus Storm Drain System, through which the campus community can report illicit discharges, including those related to construction sites, to EH&S. UC Davis follows up on all water pollution complaints (see also IP2).

Measurable Goals

The measurable goals listed below establish the level of effort required for this BMP.

Inspections

- Review and evaluate construction site inspection procedures for BMPs
- Modify (as needed) and document construction site inspection procedures and responsibilities
- Implement construction site inspection procedures

Corrective Actions and Sanctions

- Develop formal construction contract sanctions/penalties for projects and update as needed
- Modify the *Campus Standards & Design Guide* to include construction contractual sanctions/penalties as needed

Assessment Data and Information

The Assessment Data and Information identifies those items that should be tracked and reported as part of the Annual Progress Report and used within the program effectiveness assessments (see **CO5**). The data and information to be collected may include, but will not be limited to, the following:

- Number of active construction sites of size greater than or equal to one acre
- Number of regular inspections conducted at each active and permitted construction site
 - Number of inspections by DCM Inspectors
 - Number of inspections by EH&S staff
 - Number of construction sites adequately implementing and maintaining BMPs
 - Number of sites requiring corrective actions
- Number of follow-up inspections conducted at each active and permitted construction site
 - Number of construction sites adequately implementing and maintaining BMPs
- Number of sites inspected in response to a complaint from the campus community
- Total number and type of violations that occur at each active construction site
- Number and types of sanctions or formal corrective actions taken at each active construction site
- Summary of any changes made to contract provisions regarding sanctions/penalties

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the measurable goals are presented in **Table 2.4-4**.

¹² http://safetyapps.ucdavis.edu/ehs/hazreport/env_water_rpt_form.cfm

Table 2.4-4. CO3 BMP Implementation Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²			
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	DCM	FLM
Inspections										
Review and evaluate construction site inspection procedures for BMPs	C	X					P		P	
Modify (as needed) and document construction site inspection procedures and responsibilities	N		X				P		P	
Implement construction site inspection procedures	C		X	X	X	X	S		P	
Corrective Actions and Sanctions										
Develop formal construction contract sanctions/penalties for projects	N		X				S	P	P	
Modify the <i>Campus Standards & Design Guide</i> to include construction contractual sanctions/penalties as needed	N			X			S	P	P	

¹C – Continue; E – Enhance; N – New

²P – Primary responsibility; S – Secondary responsibility

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CO4 – TRAINING

Description

Training is important for the implementation of the Construction Site Stormwater Controls MCM. An effective training program is one of the best pollution prevention BMPs that can be implemented because it prompts behavioral changes that are fundamentally necessary to protect water quality.

Existing Activities

EH&S and DCM staff attend training programs on construction stormwater issues offered by the University system, professional associations, and regulatory agencies.

Measurable Goals

The measurable goals listed below establish the level of effort required for this BMP.

- Develop/Identify training for key staff involved in the Construction Site Stormwater Controls MCM
- Provide training for key staff and contractors involved in the Construction Site Stormwater Controls MCM. Training may include, but not be limited to, the target audiences and subject material outlined in **Table 2.4-5**.
 - Construction Stormwater Awareness
 - Inspecting Construction Site BMPs
 - SWPPP Review Process

Table 2.4-5. Construction Site Stormwater Controls MCM Potential Training Modules

Training Module	Audience	Format	Subject Material
Construction Stormwater Awareness	<ul style="list-style-type: none"> • UC Davis staff <ul style="list-style-type: none"> ○ Project Managers ○ Site Inspectors • Construction contractors and subcontractors 	<ul style="list-style-type: none"> • TBD¹ 	<ul style="list-style-type: none"> • Overview of stormwater pollution prevention and erosion control • Stormwater policy and contract language • Overview of BMPs • Phase II Permit Standard Provisions
Inspecting Construction Site BMPs	<ul style="list-style-type: none"> • UC Davis staff <ul style="list-style-type: none"> ○ Project Managers ○ Site Inspectors ○ EH&S Stormwater staff 	<ul style="list-style-type: none"> • TBD 	<ul style="list-style-type: none"> • Construction stormwater inspection training • BMPs for construction activities • Tracking inspections • Phase II Permit Standard Provisions
SWPPP Review Process	<ul style="list-style-type: none"> • UC Davis staff <ul style="list-style-type: none"> ○ Project Managers ○ EH&S Stormwater staff 	<ul style="list-style-type: none"> • TBD 	<ul style="list-style-type: none"> • Overview of stormwater management • BMPs for construction activities • SWPPP requirements • Tracking plan review process • Phase II Permit Standard Provisions

¹ Format to-be-determined (TBD). Appropriate format will be selected for the audience and subject, may include classroom training, field demonstrations, tailgate meetings, briefing sheets, videos, web-based or computer-based training.

Assessment Data and Information

The Assessment Data and Information identifies those items that should be tracked and reported as part of the Annual Progress Report and used within the program effectiveness assessments (see CO5). The data and information to be collected may include, but will not be limited to, the following:

- Number, dates, and types of training sessions held
- Number of attendees at each session and the Department or contractor for which they work
- Results of pre- and post-training surveys

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the measurable goals are presented in Table 2.4-6.

Table 2.4-6. CO4 BMP Implementation Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²			
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	DCM	FLM
Develop/Identify training for key staff involved in the Construction Site Stormwater Controls MCM	N	X					P		P	
Provide training for key staff : <i>Construction Stormwater Awareness</i> ¹³	N	X	X	X	X	X	P		P	
Provide training for contractors : <i>Construction Stormwater Awareness</i>	N		X	X	X	X	S		P	
Conduct training for key staff : <i>Inspecting Construction Site BMPs</i>	N		X	X	X	X	S		P	
Conduct training for key staff : <i>SWPPP Review Process</i>	N		X	X	X	X	P		P	

¹C – Continue; E – Enhance; N – New

²P – Primary responsibility; S – Secondary responsibility

¹³ For all training measurable goals, training will be focused on the work units and departments. All staff will not be trained each year, but training will be rotated amongst the target audiences.

CO5 – EFFECTIVENESS ASSESSMENT

Description

The Effectiveness Assessment BMP establishes the process to determine whether MCMs are resulting in the desired outcomes.

An effectiveness assessment will be conducted as part of the Annual Progress Report for the Construction Site Stormwater Controls MCM to determine its effectiveness and identify necessary modifications.

Although the effectiveness assessment may change from year to year as new information is learned, the assessment will initially focus on outcome levels 1-3 and may include, but not be limited to, the approach outlined in **Table 2.4-7**.

Outcome Level	Description
6	Protecting Receiving Water Quality
5	Improving Runoff Quality
4	Reducing Loads from Sources
3	Changing Behavior
2	Raising Awareness
1	Documenting Activities

Table 2.4-7. Assessment Tasks for the Construction Site Stormwater Controls MCM

CO1 – Campus Construction Site Stormwater Policies and Standards
<p>Was the MCM implemented in accordance with the SWMP BMP and measureable goals (Level 1 Outcome)?</p> <p><i>SWPPPs</i></p> <ul style="list-style-type: none"> • Maintained a campus-recommended SWPPP format for construction projects • Required construction projects to submit project-specific SWPPPs in the recommended format • Reviewed the revised CASQA SWPPP format • Updated the recommended SWPPP format in the <i>Campus Standards & Design Guide</i> to meet the requirements of the 2009 Construction General Permit <p><i>Sediment and Erosion Control BMPs</i></p> <ul style="list-style-type: none"> • Required construction projects to implement sediment and erosion control BMPs and site pollution controls as outlined in the <i>Campus Standards & Design Guide</i> • Reviewed and evaluated construction contract specifications (<i>Campus Standards & Design Guide, IV Standard Specifications, Division 1, Section 015723 Storm Water Pollution Prevention 06 07</i>) concerning sediment and erosion control BMPs and site pollution control requirements for consistency with the 2009 Construction General Permit • Reviewed and modified construction contract specifications (<i>Campus Standards & Design Guide, IV Standard Specifications, Division 1, Section 015723 Storm Water Pollution Prevention 06 07</i>) as needed to ensure sediment and erosion control BMPs and site pollution controls continue to be required <p>Did the MCM raise a target audience’s awareness of an issue (Level 2 Outcome)?</p> <ul style="list-style-type: none"> • Compare number of construction projects requiring SWPPPs to number that submitted a SWPPP • Percent construction projects submitting SWPPPs—year to year

Table 2.4-7. Assessment Tasks for the Construction Site Stormwater Controls MCM (cont'd)

CO2 – Plan Review and Approval Process
<p>Was the MCM implemented in accordance with the SWMP BMP and measureable goals (Level 1 Outcome)?</p> <ul style="list-style-type: none"> • Revised SWPPP and PRD review and submittal processes • Reviewed construction site plans and SWPPPs
CO3 – Construction Site BMP Implementation and Inspection
<p>Was the MCM implemented in accordance with the SWMP BMP and measureable goals (Level 1 Outcome)?</p> <p><i>Inspections</i></p> <ul style="list-style-type: none"> • Reviewed and evaluated construction site inspection procedures for BMPs • Modified (as needed) and documented construction site inspection procedures and responsibilities • Implemented construction site inspection procedures <p><i>Corrective Actions and Sanctions</i></p> <ul style="list-style-type: none"> • Developed formal construction contract sanctions/penalties for projects and updated as needed • Modified the <i>Campus Standards & Design Guide</i> to include construction contractual sanctions as needed <p>Did the MCM raise a target audience’s awareness of an issue (Level 2 Outcome)?</p> <ul style="list-style-type: none"> • Number of active construction sites of size greater than or equal to one acre or meet common plan of development criteria • Number of sites inspected by UC Davis staff <p>Did the MCM change a target audience’s behavior which results in implementation of recommended BMPs (Level 3 Outcome)?</p> <ul style="list-style-type: none"> • Number of follow-up inspections required—year to year • Compare follow-up inspection results to regular inspection results • Percent sites that improved BMP implementation between regular inspection follow-up inspections
CO4 – Training
<p>Was the MCM implemented in accordance with the SWMP BMP and measureable goals (Level 1 Outcome)?</p> <ul style="list-style-type: none"> • Developed/Identified training for key staff involved in the Construction Site Stormwater Controls MCM • Provided training for key staff: Construction Stormwater Awareness • Provided training for contractors: Construction Stormwater Awareness • Conducted training for key staff: Inspecting Construction Site BMPs • Conducted training for key staff: SWPPP Review Process <p>Did the MCM raise a target audience’s awareness of an issue (Level 2 Outcome)?</p> <ul style="list-style-type: none"> • Percent increase in awareness before and after the training • Percent awareness—year to year

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the measurable goals are presented in **Table 2.4-8**.

Table 2.4-8. CO5 BMP Implementation Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²			
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	DCM	FLM
Conduct, and revise if necessary, effectiveness assessment	N	X	X	X	X	X	P		S	
Identify program modifications as a result of assessment	N	X	X	X	X	X	P		P	

¹C – Continue; E – Enhance; N – New

²P – Primary responsibility; S – Secondary responsibility

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2.5 Planning and Design (Post-Construction) Stormwater Management (PD)

BACKGROUND

UC Davis conducts land development activities to fulfill its educational mission. New development and significant redevelopment has the potential to alter the natural drainage patterns and add pollutants to stormwater runoff throughout the lifecycle of the development. The Planning and Design Stormwater Management Minimum Control Measure (MCM) will create and begin implementation of the tools for UC Davis to develop, implement, and enforce a program for stormwater runoff to prevent and minimize water quality impacts from new development and significant redevelopment projects. An effective planning and design stormwater program includes a plan to implement appropriate and cost-effective treatment and source control Best Management Practices (BMPs) at the facility-level and site-level, and ensure long-term operation and maintenance of such BMPs.

State-funded construction projects have an extended timeline from initial conception to construction. Table 2.5-1 shows a typical project schedule for a State-funded project. The project schedule for small and non-State funded construction projects are generally shorter than State-funded projects.

Table 2.5-1 Typical Project Schedule (State-funded)

	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
PROGRAMMING	■ ■ ■				
BUDGET SET & APPROVED		■			
SCHEMATIC DESIGN		■ ■			
DESIGN APPROVAL		■			
DESIGN DEVELOPMENT		■ ■			
WORKING DRAWINGS			■ ■ ■		
BIDDING & AWARD				■	
CONSTRUCTION				■ ■ ■ ■ ■ ■ ■ ■ ■ ■	

OBJECTIVES

The objectives of the Planning and Design MCM are to:

- Convene an internal stakeholder group to identify revised planning and design stormwater requirements for UC Davis development projects
- Provide a comprehensive review and select a menu of planning and design (post-construction) BMPs appropriate for UC Davis projects
Develop a phase-in process to prevent the interruption of scoped and budgeted projects that are in design or construction. (Post-construction BMPs will be incorporated into project schedules for State-funded construction projects at the programming phase of the project (see **Table 2.5-1**). Post-construction BMPs will be incorporated into smaller and non-State funded construction projects sooner as they generally have a shorter timeline from initial conception to the design phase.)
- Develop a process to review development plans to ensure that planning and design (post-construction) stormwater quality controls are properly selected to minimize stormwater quality impacts
- Ensure the proper implementation of the planning and design (post-construction) stormwater controls for new development and significant redevelopment
- Ensure that selected planning and design (post-construction) stormwater controls will remain effective upon project completion by requiring a maintenance plans for post-construction BMPs
- Provide training for employees who are responsible for plan review, development standards, and inspections related to planning and design (post-construction) BMPs
- Conduct an assessment as part of the annual reporting process to determine the effectiveness of the Planning and Design Stormwater Management MCM and identify any necessary modifications

BEST MANAGEMENT PRACTICES

UC Davis proposes to implement the BMPs outlined below in **Table 2.5-2** and discussed in the accompanying fact sheets. In developing the BMPs, several key factors were considered:

- Each BMP must address one or more of the MCM objectives
- Each BMP must have clearly defined measurable goals, a time frame for completion, and identified responsible organizations
- Each BMP must actively identify enhancements/modifications that will improve the MCM and overall effectiveness of the Stormwater Program

For each BMP, there are accompanying measurable goals which, once accomplished, meet the MCM objectives.

Table 2.5-2. Planning and Design Stormwater Controls BMPs

ID	BMP
PD1	Campus Planning and Design (Post-Construction) Stormwater Policies and Standards
PD2	Plan Review and Approval Process
PD3	Planning and Design (Post-Construction) BMP Inspection and Maintenance
PD4	Training
PD5	Effectiveness Assessment

SUPPORTING BEST MANAGEMENT PRACTICES

While individual, control measure-specific BMPs are the primary focus of each MCM, it is important to understand how this MCM fits within the overall SWMP. In order to adequately address all objectives of the Planning and Design Stormwater Management MCM, overlap between other MCMs is often necessary. A brief summary of MCMs that support the Planning and Design Stormwater Management MCM is provided below.

- Construction Site Stormwater Controls (Section 2.4)
 - Require SWPPP development (CO1)
 - Site plan review (CO2)
 - Training of staff on construction stormwater awareness (CO4)

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PD1 – CAMPUS PLANNING AND DESIGN (POST-CONSTRUCTION) STORMWATER POLICIES AND STANDARDS

Description

Planning and Design (post-construction) BMPs, including those for site design, regional practices, source control, and treatment, are necessary for development projects in order to mitigate potential water quality impacts. UC Davis will develop policies and standards in order to assist development projects in meeting these requirements.

Existing Activities

UC Davis currently requires construction projects that disturb greater than or equal to one acre to identify and implement post-construction BMPs. *Campus Standards & Design Guide, IV Standard Specifications, Division 1, Section 015723 Storm Water Pollution Prevention 06 07* requires the identification and construction of post-construction BMPs and the development of a maintenance schedule.

UC Davis' *Campus Standards & Design Guide, Part II Design Requirements 08* also require the implementation of post-construction BMPs and emphasizes that post-construction programs are “most effective when they stress (i) low impact design, (ii) source controls; and (iii) treatment controls.” The *Campus Standards & Design Guide* references the California Stormwater Quality Association's BMP Handbook for New Development and specifies the following design criteria for post-construction BMPs:

“If project site existing imperviousness is less than or equal to 50%, implement a storm water management plan that prevents the post-development peak discharge rate and quantity from exceeding the pre-development peak discharge rate and quantity for the one- and two-year 24-hour design storms.

OR

If the project site existing imperviousness is greater than 50%, implement a storm water management plan that results in a 25% decrease in the volume of storm water runoff from the two-year 24-hour design storm.”

Additionally, UC Davis supports and implements several sustainability initiatives that promote the use of post-construction BMPs. In particular, the UC Davis' *Sustainable Blueprint for a Green Future* promotes on-site detention, water harvesting and Low Impact Development (LID) strategies such as permeable paving (Objectives D.3, D.4., D.5, and D. 7). The University of California's *Policy on Sustainable Practices* states that all new buildings (with few exceptions) should meet, at a minimum, the standards required by Leadership in Energy and Environmental Design (LEED) 2.1 “Certified” rating. LEED for New Construction 2.1 awards points to new construction sites that reduce the rate and quantity of stormwater runoff and improve the quality of stormwater runoff. UC Davis' design criteria, as specified within the *Design Requirements*, align with LEED stormwater requirements.

UC Davis' *Long Range Development Plan Final EIR* also states that project design should include a combination of BMPs to minimize pollutants in receiving waters.

Measureable Goals

The measurable goals listed below establish the level of effort required for this BMP.

- Convene stakeholder group
- Develop phase-in schedule that accounts for state-funded and smaller non-state funded projects
- Revise construction contract specifications (*Campus Standards & Design Guide, IV Standard Specifications, Division 1, Section 015723 Storm Water Pollution Prevention 06 07*) to reflect current the *Campus Standards & Design Guide Part II Design Requirements 08*
- Evaluate the current design criteria as specified within the *Campus Standards & Design Guide Part II Design Requirements 08* for planning and design (post-construction) BMPs
- Review and evaluate planning and design (post-construction) BMPs, including LID strategies, regional practices, source controls, and treatment controls
- Develop recommended menu of planning and design (post-construction) BMPs
- Revise *Campus Standards & Design Guide* to incorporate and emphasize selected LID strategies, source controls, and treatment controls
- Review and modify construction contract specifications (*Campus Standards & Design Guide, IV Standard Specifications, Division 1, Section 015723 Storm Water Pollution Prevention 06 07*) as needed for compatibility with revised *Campus Standards & Design Guide Part II Design Requirements 08*

Assessment Data and Information

The Assessment Data and Information identifies those items that should be tracked and reported as part of the Annual Progress Report and used within the program effectiveness assessments (see **PD5**). The data and information to be collected may include, but will not be limited to, the following:

- Summary of stakeholder meetings, including (for each):
 - Date
 - Agenda
 - Participants
 - Organizations represented
- List of planning and design (post-construction) BMPs considered
- Final list of stakeholder recommended planning and design (post-construction) BMPs
- Summary of revisions to *Campus Standards & Design Guide Part II Design Requirements 08*
- Summary of revisions to construction contract specifications (*Campus Standards & Design Guide, IV Standard Specifications, Division 1, Section 015723 Storm Water Pollution Prevention 06 07*)

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the measurable goals are presented in **Table 2.5-3**.

Table 2.5-3. PD1 BMP Implementation Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²			
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	DCM	FLM
Convene stakeholder group	N	X					P		S	S
Develop phase-in schedule for state-funded and non-state funded projects			X				P		S	S
Revise construction contract specifications (<i>Campus Standards & Design Guide, IV Standard Specifications, Division 1, Section 015723 Storm Water Pollution Prevention 06 07</i>) to reflect current <i>Part II Design Requirements 08</i>	N	X	X				S		P	
Evaluate the current design criteria as specified within the <i>Part II Design Requirements 08</i> for planning and design (post-construction) BMPs.	N		X	X			S		P	
Review and evaluate planning and design (post-construction) BMPs, including LID strategies, regional controls, source controls, and treatment controls	C		X	X			S		P	P
Develop recommended menu of planning and design (post-construction) BMPs	N			X	X		S		P	P
Revise <i>Part II Design Requirements 08</i> to incorporate and emphasize selected planning and design (post-construction)	N			X	X	X	S		P	P
Review and modify construction contract specifications (<i>Campus Standards & Design Guide, IV Standard Specifications, Division 1, Section 015723 Storm Water Pollution Prevention 06 07</i>) as needed for compatibility with the revised <i>Part II Design Requirements 08</i>	N		X	X	X	X	S		P	P

¹ C – Continue; E – Enhance; N – New

² P – Primary responsibility; S – Secondary responsibility

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PD2 – PLAN REVIEW AND APPROVAL PROCESS

Description

Planning and Design (post-construction) BMPs should be considered throughout the project design process. Review of proposed project designs by UC Davis staff must be provided to ensure that planning and design (post-construction) BMPs are incorporated into project designs.

Existing Activities

UC Davis currently requires sites that disturb one acre or more to submit a Stormwater Pollution Prevention Plan (SWPPP) that provides the location, type and description of post-construction BMPs. Site work cannot commence until the SWPPP has been reviewed and accepted by EH&S, and after July 1, 2010, submitted to the State Water Board. Post-construction BMP's are identified during the planning phases of a project, and the scope for them is included in the Project Planning Guide (PPG). The PPG is the basis of funding for a project. UC Davis verifies the adherence to these post-construction measures at each step of the plan review and approval process.

Measureable Goals

The measurable goals listed below establish the level of effort required for this BMP.

- Incorporate planning and design (post-construction) BMPs into the project design process to ensure early consideration and inclusion of the BMPs
- Develop and/or revise checklists or similar tools used by UC Davis staff to review site plans and development projects for compliance with planning and design (post-construction) stormwater policies and standards (as identified within PD1)

Assessment Data and Information

The Assessment Data and Information identifies those items that should be tracked and reported as part of the Annual Progress Report and used within the program effectiveness assessments (see **PD5**). The data and information to be collected may include, but will not be limited to, the following:

- Number of site plans reviewed
- Number of site plans reviewed with planning and design (post-construction) BMPs
- Number and type of planning and design (post-construction) BMPs included in the site plans

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the measurable goals are presented in **Table 2.5-4**.

Table 2.5-4. PD2 BMP Implementation Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²			
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	DCM	FLM
Incorporate planning and design (post-construction) BMPs into the project design process to ensure early consideration and inclusion of the BMPs	N		X	X	X	X	S		P	P
Develop and/or revise checklists or similar tools used by the UC Davis staff to review site plans and development projects for planning and design (post-construction) BMPs	N			X	X	X	S		P	

¹ C – Continue; E – Enhance; N – New

² P – Primary responsibility; S – Secondary responsibility

PD3 – POST-CONSTRUCTION BMP INSPECTION AND MAINTENANCE

Description

Inspection and maintenance programs ensure that the planning and design (post-construction) BMPs are properly constructed and will remain effective upon project completion. Inspections will ensure that post-construction BMPs adhere to UC Davis' planning and design (post-construction) BMP policies. UC Davis will assume maintenance responsibility for all post-construction BMPs implemented on campus.

Existing Activities

UC Davis requires sites that disturb one acre or more to submit a SWPPP that includes a maintenance schedule for post-construction stormwater BMPs. Site work cannot commence until the SWPPP has been accepted by EH&S, and after July 1, 2010, submitted to the State Water Board. SWPPP requirements also state that the Monitoring Plan should include site inspections and that the contractor shall conduct inspections of the construction site. Work is inspected by, and must be accepted by DCM personnel prior to closeout and final payment of any construction project.

Measurable Goals

The measurable goals listed below establish the level of effort required for this BMP.

- Conduct inspections of post-construction BMPs during construction to ensure proper installation per approved designs.
- Develop a performance bond standard to guarantee that construction of the post-construction BMP(s) will be completed in accordance with the terms of the post-construction stormwater policies and standards and approved site plan.
- Require performance bond.
- Revise close-out submittal requirements (*Standard Specification, Section 017800 Close-Out Submittals*) to specify that operation and maintenance manuals include post-construction stormwater BMPs. Require that a post-construction operation and maintenance manual(s) include a site map, maintenance and cleaning activities, and schedule.
- Establish a process to track post-construction BMPs installed in development projects and required inspection and maintenance intervals (per the maintenance schedule), and required maintenance. At a minimum, include BMP location and type, installation date, planned and inspection and maintenance intervals.
- Develop and implement an inspection program for post-construction BMPs. Track dates and summaries of inspections.
- Develop and implement an operation and maintenance program to provide regular maintenance of post-construction BMPs. Track dates and summaries of maintenance activities.

Assessment Data and Information

The Assessment Data and Information identifies those items that should be tracked and reported as part of the Annual Progress Report and used within the program effectiveness assessments

(see **PD5**). The data and information to be collected may include, but will not be limited to, the following:

- Number and type of post-construction BMPs inspected during construction
- Number and type of established post-construction BMPs inspected annually
- Number of post-construction operation and maintenance manuals submitted
- Number and type of post-construction BMPs maintained annually

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the measurable goals are presented in **Table 2.5-5**.

Table 2.5-5. PD3 BMP Implementation Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²			
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	DCM	FLM
Conduct inspections of post-construction BMPs during construction to ensure proper installation per approved designs	N		X	X	X	X		P	P	
Develop a performance bond standard to guarantee construction of the post-construction BMP(s) per approved design	N		X						P	
Require performance bond	N			X	X	X			P	
Revise close-out submittal requirements to specify submittal of operation and maintenance manuals for post-construction stormwater BMPs	N			X	X	X			P	
Establish a process to track post-construction BMPs installed in development projects and required inspection and maintenance intervals	N		X					P	P	
Develop an inspection program for post-construction BMPs	N			X				P	P	
Implement an inspection program for post-construction BMPs	N				X	X		P	P	
Develop an operation and maintenance program to provide regular maintenance of post-construction BMPs	N			X				P	S	
Implement an operation and maintenance program to provide regular maintenance of post-construction BMPs	N				X	X		P		

¹ C – Continue; E – Enhance; N – New;

² P – Primary responsibility; S – Secondary responsibility

PD4 – TRAINING

Description

Training is important to the successful implementation of the Planning and Design Stormwater Management MCM. An effective training program is one of the best pollution prevention BMPs that can be implemented because it prompts behavioral changes that are fundamentally necessary to protect water quality.

Existing Activities

Design and Construction Management (DCM) personnel attend LEED certification and sustainability training.

Measureable Goals

The measurable goals listed below establish the level of effort required for this BMP.

- Develop/Identify training for key staff involved in the Planning and Design Stormwater Management MCM
- Provide training for key staff involved in the Planning and Design Stormwater Management MCM. Training may include, but not be limited to, the target audiences and subject material outlined in **Table 2.5-6**.
 - Planning and Design (post-construction) BMP planning
 - Post-Construction BMP inspection and maintenance

Table 2.5-6. Planning and Design Stormwater Controls MCM Potential Training Modules

Training Module	Audience	Format	Subject Material
Post-Construction BMP Planning,	<ul style="list-style-type: none"> • Project Managers • Site Inspectors 	<ul style="list-style-type: none"> • TBD¹ 	<ul style="list-style-type: none"> • Overview of stormwater management • Overview of Post-Construction BMPs • Phase II Permit Standard Provisions
Post-Construction BMP Inspection and Maintenance	<ul style="list-style-type: none"> • Project Managers • Site Inspectors • EH&S Stormwater staff • FM staff 	<ul style="list-style-type: none"> • TBD 	<ul style="list-style-type: none"> • Post-Construction BMPs inspection training • Tracking inspections • Phase II Permit Standard Provisions

¹ Format to-be-determined (TBD). Appropriate format will be selected for the audience and subject, may include classroom training, field demonstrations, tailgate meetings, briefing sheets, videos, web-based or computer-based training.

Assessment Data and Information

The Assessment Data and Information identifies those items that should be tracked and reported as part of the Annual Progress Report and used within the program effectiveness assessments (see **PD5**). The data and information to be collected may include, but will not be limited to, the following:

- Number, dates, and types of training sessions held
- Number of attendees at each session and the Department or contractor they work for
- Results of pre- and post-training surveys

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the measurable goals are presented in **Table 2.5-7**.

Table 2.5-7. PD4 BMP Implementation Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²			
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	DCM	FLM
Develop/Identify training for key staff involved in post-construction BMP site planning, design and construction	N	X						P	P	
Provide training for key staff involved with post-construction BMP planning ¹⁴	N		X	X	X	X		P	P	
Provide training for key staff involved with post-construction BMP inspection and maintenance	N			X	X	X		P	S	

¹ C – Continue; E – Enhance; N – New

² P – Primary responsibility; S – Secondary responsibility

¹⁴ For all training measurable goals, training will be focused on the work units and departments. All staff will not be trained each year, but training will be rotated amongst the target audiences.

PD5 – EFFECTIVENESS ASSESSMENT

Description

The Effectiveness Assessment BMP establishes the process to determine whether MCMs are resulting in the desired outcomes.

An effectiveness assessment will be conducted as part of the Annual Progress Report for the Planning and Design Stormwater Management MCM and related BMPs and measureable goals to determine

their effectiveness and identify necessary modifications. Although the effectiveness assessment may change from year to year as new information is learned, the assessment will initially focus on outcome levels 1-3 and may include, but not be limited to, the approach outlined in **Table 2.5-8**.

Outcome Level	Description
6	Protecting Receiving Water Quality
5	Improving Runoff Quality
4	Reducing Loads from Sources
3	Changing Behavior
2	Raising Awareness
1	Documenting Activities

Table 2.5-8. Assessment Tasks for Planning and Design Stormwater Management MCM

PD1 – Campus Planning and Design Stormwater Policies and Standards
<p>Was the MCM implemented in accordance with the SWMP BMP and measureable goals (Level 1 Outcome)?</p> <ul style="list-style-type: none"> • Convened stakeholder group • Developed phase-in schedule for state-funded and non-state funded projects • Revised contract specifications to reflect current <i>Campus Standards & Design Guide</i> • Evaluated current <i>Campus Standards & Design Guide</i> • Reviewed and evaluated planning and design (post-construction) BMPs • Developed recommended list of planning and design (post-construction) BMPs • Revised <i>Campus Standards & Design Guide</i> to incorporate planning and design (post-construction) BMPs • Modified contract specifications to reflect revised <i>Campus Standards & Design Guide</i> <p>Did the MCM raise a target audience’s awareness of an issue (Level 2 Outcome)?</p> <ul style="list-style-type: none"> • Number of meetings held with stakeholders and organizations represented at meetings
PD2 – Plan Reviews
<p>Was the MCM implemented in accordance with the SWMP BMP and measureable goals (Level 1 Outcome)?</p> <ul style="list-style-type: none"> • Incorporated post-construction BMPs into the project design process • Developed/Revised checklist used to review site plans for compliance with post-construction stormwater standards <p>Did the MCM raise a target audience’s awareness of an issue (Level 2 Outcome)?</p> <ul style="list-style-type: none"> • Number of site plans reviewed • Number of site plans reviewed with post-construction BMPs • Number and type of post-construction BMPs

Table 2.5-8. Assessment Tasks for Post-Construction Stormwater Management MCM (cont'd)

PD3 – Planning and Design BMP Inspection and Maintenance
<p>Was the MCM implemented in accordance with the SWMP BMP and measureable goals (Level 1 Outcome)?</p> <ul style="list-style-type: none"> • Conducted inspections of post-construction BMPs to ensure proper installation • Developed performance bond • Required performance bond • Revised close-out submittal requirements to include operations and maintenance manuals for post-construction BMPs • Established a process for tracking post-construction BMPs, and the required inspections and maintenance intervals • Developed an inspection program for post-construction BMPs • Implemented an inspection program for post-construction BMPs • Developed an operations and maintenance program to provide regular maintenance of post-construction BMPs • Implemented an operations and maintenance program to provide regular maintenance of post-construction BMPs <p>Did the MCM raise a target audience’s awareness of an issue (Level 2 Outcome)?</p> <ul style="list-style-type: none"> • Number and type of post-construction BMPs inspected during construction • Number and type of established post-construction BMPs inspected annually • Number of operations and maintenance manuals submitted <p>Did the MCM change a target audience’s behavior which results in implementation of recommended BMPs (Level 3 Outcome)?</p> <ul style="list-style-type: none"> • Number and type of post-construction BMPs maintained annually
PD4 – Training
<p>Was the MCM implemented in accordance with the SWMP BMP and measureable goals (Level 1 Outcome)?</p> <ul style="list-style-type: none"> • Developed/Identified training for key staff involved in post-construction BMP site planning, design and construction • Provided training for key staff involved in the post-construction BMP planning • Provided training for key staff involved in the post-construction BMP inspection and maintenance <p>Did the MCM raise a target audience’s awareness of an issue (Level 2 Outcome)?</p> <ul style="list-style-type: none"> • Percent increase in awareness before and after training sessions

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the measurable goals are presented in **Table 2.5-9**.

Table 2.5-9. PD5 BMP Implementation Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²			
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	DCM	FLM
Conduct, and revise if necessary, effectiveness assessment	N	X	X	X	X	X	P	S	S	S
Identify program modifications as a result of assessment	N	X	X	X	X	X	P	P	P	P

¹ C – Continue; E – Enhance; N – New

² P – Primary responsibility; S – Secondary responsibility

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2.6 Pollution Prevention and Good Housekeeping for Campus Operations (PP)

BACKGROUND

UC Davis, as part of its normal operations, conducts a number of activities that may generate or mobilize pollutants. Campus operations that have the potential to impact stormwater include landscape maintenance and pest control, street cleaning, corporation yard management, fire department activities, and dining and food services activities. The Pollution Prevention and Good Housekeeping for Campus Operations Minimum Control Measure (MCM) will identify those activities which could benefit from pollution prevention and good housekeeping and train staff in applicable Best Management Practices (BMPs).

OBJECTIVES

The objectives of the Pollution Prevention and Good Housekeeping for Campus Operations MCM are to:

- Identify campus operations activities with the potential to generate or mobilize pollutants and develop BMPs to address these activities
- Train staff in BMP implementation
- Conduct an assessment as part of the annual reporting process to determine the effectiveness of the Pollution Prevention and Good Housekeeping for Campus Operations MCM and identify any necessary modifications

BEST MANAGEMENT PRACTICES

UC Davis proposes to implement the BMPs outlined below in **Table 2.6-1** and discussed in the accompanying fact sheets. In developing the BMPs, several key factors were considered:

- Each BMP must address one or more of the MCM objectives
- Each BMP must have clearly defined measurable goals, a time frame for completion, and identified responsible organizations
- Each BMP must actively identify enhancements/modifications that will improve the MCM and overall effectiveness of the Stormwater Program

For each BMP, there are accompanying measurable goals which, once accomplished, meet the MCM objectives.

Table 2.6-1. Pollution Prevention and Good Housekeeping for Campus Operations BMPs

ID	BMP
PP1	Identification and Development of BMPs for Campus Operations
PP2	Training
PP3	Effectiveness Assessment

SUPPORTING BEST MANAGEMENT PRACTICES

While individual, control measure-specific BMPs are the primary focus of each MCM, it is important to understand how this MCM fits within the overall Stormwater Management Plan (SWMP). In order to adequately address all objectives of the Pollution Prevention and Good Housekeeping for Campus Operations MCM, overlap with other MCMs is often necessary. A brief summary of the MCMs and associated activities that support the Pollution Prevention and Good Housekeeping for Campus Operations MCM is provided below.

- Campuswide Education and Outreach (Section 2.1)
 - Outreach materials provided to staff (EO1)
 - Storm drain inlet marking (EO2)
- Campuswide Involvement and Participation (Section 2.2)
 - Stormwater working group (IP1)
 - Stormwater education workshops (IP1)
 - Mechanism to report illicit discharges and spills (IP2)
- Illicit Discharge Detection and Elimination (Section 2.3)
 - Campus notification systems for sewage spills and other types of spills (ID1)
 - Policies regarding illicit discharges (ID1)
 - Map campus storm drainage system (ID2)
 - Staff information and education measures regarding illicit discharges (ID4)
- Construction Site Stormwater Controls (Section 2.4)
 - Training elements for staff (CO4)
- Planning and Design Stormwater Management (Section 2.5)
 - Training elements for staff (PD4)

PP1 – IDENTIFICATION AND DEVELOPMENT OF BMPS FOR CAMPUS OPERATIONS

Description

The Identification and Development of BMPs for Campus Operations BMP sets a goal to develop a list of routine facility operations with the potential to impact stormwater. Based on this list BMPs will be developed for specific activities associated with campus operation departments.

Existing Activities

EH&S has developed a list of potential pollutant sources and pollutants on campus, as shown in **Table 2.6-2**. UC Davis has begun implementing BMPs for many of these activities. For others, while UC Davis practices are protective of stormwater, these practices will need to be summarized into Factsheets to provide a better description of the implementation and tracking and training tools.

Table 2.6-2. Potential Pollutant Sources and Pollutants on Campus

Activity/Source	Pollutants of Concern	Status of BMPS
Building exterior maintenance (washing, graffiti abatement)	Wash water, paint chips, cleaning products, dirt and sediment	To be developed
Chemical spills	Various cleaning compounds, diesel, paint, hazardous materials, vehicle fluids	Implemented (Spill Response/Hazardous Materials Management)
Grounds maintenance	Green waste, fuel, oil, pesticides, herbicides, sediment	Partially Implemented (Landscape Maintenance Handbook)
Irrigation runoff	Fertilizers, pesticides, herbicides	Implemented (Landscape Maintenance Handbook)
Litter and debris	Litter and debris	Implemented (Path and street sweeping, litter cleanup, and trash pickup)
Loading/unloading areas	Petroleum products, fertilizers, pesticides, herbicides, cleaning solutions, paint	To be developed
Outdoor storage of raw materials	Sand, asphalt, soil, pesticides, herbicides, fertilizer, paint, solvents, fuel	To be developed
Painting	Paint or rinse water (oil and water based), paint thinner	To be developed
Sewer line blockages	Raw sewage	Implemented (SSMP)

Table 2.6-2. Potential Pollutant Sources and Pollutants on Campus (cont'd)

Activity/Source	Pollutants of Concern	Status of BMPs
Sewer line seepage	Raw sewage	Implemented (SSMP)
Trash storage areas	Organic materials, hazardous materials	To be developed
Vehicle and equipment maintenance, fueling or washing (staff)	Cleaning products, oil/grease, vehicle fluids	To be developed
Utility line maintenance and repairs (domestic water/ irrigation/ sewer)	Chlorine, sediment, adhesive cements, primers	Partially Implemented (Landscape Maintenance Handbook/SSMP)
Pet feces	Coliform bacteria	Implemented (Campus policy)
Livestock feces	Coliform bacteria	Implemented (Dairy General Permit/Manure Management Area runoff diversion)
Small construction activities	Concrete, drywall, paint, sediment, fuels	To be developed
Residential car washing (student)	Oils, detergents	Implemented (Car washing only allowed in area plumbed to WWTP)
Illegal dumping	Chemicals, petroleum products	Implemented (Spill Response/Hazardous Materials Management)
Trenching	Sediment, organic matter	To be developed
Agricultural runoff	Sediment, nutrients, pesticides	Implemented (Irrigated Agricultural Waiver)
Parking lot runoff	Oil/grease, litter, heavy metals	To be developed
Food service activities	Grease, cleaning materials	To be developed

Sediment, nutrients, and pesticides in runoff from agricultural areas are addressed through the UC Davis agricultural waiver. In October 2003, UC Davis enrolled their irrigated agricultural acres in the Irrigated Lands Program run by the Yolo County Farm Bureau Education Corporation (YCFBEC) Subwatershed. YCFBEC is part of the Sacramento Valley Water Quality Coalition. The lands have been continuously enrolled. This program covers all irrigated agricultural lands as required by the Regional Water Board.

The UC Davis Animal Science Dairy production facility and manure land application area is regulated under Waste Discharge Requirements General Order for Existing Milk Cow Dairies (Order No. R5-2007-0035, adopted on May 3, 2007).

UC Davis directs runoff from manure management areas into holding ponds where water is then pumped into the sanitary sewer for treatment.

Policy and Procedure 209-90, Animal Control on Campus, requires that pet waste deposited on campus must be removed immediately by pet owner. Pet waste stations are used in areas adjacent to the Veterinary Medical Teaching Hospital.

To reduce litter and debris in runoff, grounds maintenance sweeps regularly used paths and streets on campus on at least a weekly basis. Maps of paths and streets swept are included in **Appendix B**. Grounds crews clean up litter, and trash and recyclables are removed for recycling or proper disposal. UC Davis has a well developed R4 Recycling program¹⁵ that encourages wastes to be disposed of properly.

UC Davis provides trained staff to properly transport and manage chemical and radioactive wastes. Use of trained staff for management of these waste materials minimizes the potential for accidental spills or unintentional illicit discharges.

Measurable Goals

The measurable goals listed below establish the level of effort required for this BMP.

- Review list of routine facility operation activities associated with pollutant sources and update if needed
- Prioritize list of routine facility operation activities for BMP development
- Develop/Document BMPs for routine facility operation activities to prevent or reduce pollutant runoff into the storm sewer system
- Implement BMPs for routine facility operation activities to prevent or reduce pollutant runoff into the storm sewer system

Assessment Data and Information

Assessment data and information identifies those items that should be tracked and reported as part of the Annual Progress Report and used within the program effectiveness assessments (see **PP3**). The data and information to be collected may include, but will not be limited to, the following:

- Prioritized list of BMPs
- Status of BMP development
- Description of BMPs developed for routine facility operations activities and pollutant sources

¹⁵ <http://r4.ucdavis.edu/>

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the measurable goals are presented in **Table 2.6-3**.

Table 2.6-3. PP1 BMP Implementation Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²					
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	DCM	TAPS	Food Service	Student Housing
Review list of routine facility operation activities associated with pollutant sources	N	X					S	P	P	P	P	P
Prioritize list of routine facility operation activities for BMP development	N	X										
Develop BMPs for routine facility operation activities:		See individual items below										
• Building exterior maintenance (washing, graffiti abatement)	N		X				S	P			P	P
• Grounds maintenance (activities not covered by Landscape Maintenance Handbook)	N		X				S	P				P
• Painting	N		X				S	P				P
• Vehicle and equipment maintenance, fueling or washing (staff)	N		X				S	P				P
• Loading/unloading areas	N		X				S	P	P		P	P
• Outdoor storage of raw materials	N		X				S	P	P			
• Small construction activities	N		X				S	P	P			P
• Trenching	N		X				S	P	P			P
• Utility line maintenance and repairs (domestic water)	N		X				S	P	P			
• Trash storage areas	N			X			S	P	P			P
• Parking lot runoff	N			X			S	P	P	S		
• Food service activities	N			X			S				P	

Table 2.6-3. PP1 BMP Implementation Schedule and Responsible Parties (cont'd)

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²					
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	TAPS	ASUCD	Food Service	Student Housing
Implement BMPs for routine facility operation activities:		See individual items below										
• Chemical spill	C	X	X	X	X	X	P					
• Irrigation runoff	C	X	X	X	X	X	P					P
• Sewer line blockages	C	X	X	X	X	X	S	P				
• Sewer line seepages	C	X	X	X	X	X	S	P				
• Pet feces	C	X	X	X	X	X	S	P				P
• Livestock feces	C	X	X	X	X	X	P					
• Illegal dumping	C	X	X	X	X	X	P					
• Litter and debris	C	X	X	X	X	X	S	P			P	P
• Agricultural runoff	C	X	X	X	X	X	P					
• Residential car washing	C	X	X	X	X	X	S		P			P
• Building exterior maintenance (washing, graffiti abatement)	N			X	X	X	S	P				P
• Grounds maintenance (activities not covered by Landscape Maintenance Handbook)	N			X	X	X	S	P				P
• Painting	N			X	X	X	S	P				P
• Vehicle and equipment maintenance, fueling or washing (staff)	N			X	X	X	S	P		P		P
• Loading/unloading areas	N			X	X	X	S	P	P	P	P	P
• Outdoor storage of raw materials	N			X	X	X	S	P				P
• Small construction activities	N			X	X	X	S	P				P
• Trenching	N			X	X	X	S	P				

Table 2.6-3. PP1 BMP Implementation Schedule and Responsible Parties (cont'd)

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²					
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	TAPS	ASUCD	Food Service	Student Housing
Implement BMPs for routine facility operation activities:		See individual items below										
<ul style="list-style-type: none"> Utility line maintenance and repairs (domestic water) 	N			X	X	X		P				
<ul style="list-style-type: none"> Trash storage areas 	N				X	X	S	P				P
<ul style="list-style-type: none"> Parking lot runoff 	N				X	X	S	P	P	P		
<ul style="list-style-type: none"> Food service activities 	N				X	X	S				P	

¹C – Continue; E – Enhance; N – New

²P – Primary responsibility; S – Secondary responsibility

PP2 – TRAINING

Description

Training is important for the implementation of the Pollution Prevention and Good Housekeeping for Campus Operations MCM. An effective training program is one of the best pollution prevention BMPs that can be implemented because it prompts behavioral changes that are fundamentally necessary to protect water quality.

Existing Activities

Currently, Environmental Service Facility (ESF) staff are trained to the following California Code of Regulations (CCR) and Code of Federal Regulations (CFR) standards before being allowed to work unsupervised.

- Hazardous Waste Operations and Emergency Response (8CCR1910.120)
- Department of Transportation Hazmat Employee Training (49CFR172.704)

Staff are also trained in the ESF standard operating procedures (SOPs), which ensure that all waste is labeled, stored, and transported in compliance with applicable regulations. Transportation SOPs outline how to load and unload wastes to prevent spills and require comprehensive documentation for transport and disposal of hazardous materials.

Typically EH&S staff are trained within 90 to 180 days of employment and receive follow-up refresher training every one to two years.

Measurable Goals

The measurable goals listed below establish the level of effort required for this BMP.

- Develop/Identify training for key staff involved in the Pollution Prevention and Good Housekeeping for Campus Operations MCM
- Provide training for key staff involved in the Pollution Prevention and Good Housekeeping for Campus Operations MCM. Training may include, but not be limited to, the target audiences and subject material outlined in **Table 2.6.4**.
 - Campus Operations Good Housekeeping BMPs

Table 2.6-4. Pollution Prevention and Good Housekeeping Controls MCM Potential Training Modules

Training Module	Audience	Format	Subject Material
Campus Operations Good Housekeeping BMPs	<ul style="list-style-type: none"> • FM Staff • Buildings & Grounds • Building Maintenance • Renovation & Construction • Utilities • Food Service Contractors • ASUCD staff • Student Housing • TAPS staff 	<ul style="list-style-type: none"> • TBD¹ 	<ul style="list-style-type: none"> • Overview of stormwater management • Overview of Campus Operations Good Housekeeping BMPs specific to each audience • Phase II Permit Standard Provisions

¹ Format to-be-determined (TBD). Appropriate format will be selected for the audience and subject, may include classroom training, field demonstrations, tailgate meetings, briefing sheets, videos, web-based or computer-based training.

Assessment Data and Information

The assessment data and information identifies those items that should be tracked and reported as part of the Annual Progress Report and used within the program effectiveness assessments (see **PP3**). The data and information to be collected may include, but will not be limited to, the following:

- Number, dates, and types of training sessions held
- Number of attendees at each session and the Department they work for
- Results of pre- and post-training surveys

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the measurable goals are presented in **Table 2.6-5**.

Table 2.6-5. PP2 BMP Implementation Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²					
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	TAPS	ASUCD	Food Service	Student Housing
Develop/Identify training for key staff involved in the Pollution Prevention and Good Housekeeping for Campus Operations MCM	N	X	X				S	P	P	P	P	P
Provide training for key staff and contractors involved in the Pollution Prevention and Good Housekeeping for Campus Operations MCM: <i>Campus Operations Good Housekeeping BMPs</i> ¹⁶	N	X	X	X	X	X	S	P	P	P	P	P

¹C – Continue; E – Enhance; N – New

²P – Primary responsibility; S – Secondary responsibility

¹⁶ Training will be focused on the work units and departments. All staff will not be trained each year, but training will be rotated amongst the target audiences.

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PP3 – EFFECTIVENESS ASSESSMENT

Description

The Effectiveness Assessment BMP establishes the process to determine whether MCMs are resulting in the desired outcomes.

An effectiveness assessment will be conducted as part of the Annual Progress Report for the Pollution Prevention and Good Housekeeping for Campus Operations MCM to determine their effectiveness and identify necessary

modifications. Although the effectiveness assessment may change from year to year as new information is learned, the assessment will initially focus on outcome levels 1-3 and may include, but not be limited to, the approach outlined in **Table 2.6.6**.

Outcome Level	Description
6	Protecting Receiving Water Quality
5	Improving Runoff Quality
4	Reducing Loads from Sources
3	Changing Behavior
2	Raising Awareness
1	Documenting Activities




Table 2.6-6. Assessment Tasks for Pollution Prevention and Good Housekeeping MCM

PP1 – Identification and Development of BMPs for Campus Operations
<p>Was the MCM implemented in accordance with the SWMP BMP and measureable goals (Level 1 Outcome)?</p> <ul style="list-style-type: none"> Reviewed list of routine facility operation activities associated with pollutant sources Prioritized list of routine facility operation activities associated with pollutant sources Developed/Documented BMPs for routine facility operation activities to prevent or reduce stormwater pollution Implemented BMPs for routine facility operation activities to prevent or reduce pollutant runoff into the storm sewer system¹⁷
PP2 – Training
<p>Was the MCM implemented in accordance with the SWMP BMP and measureable goals (Level 1 Outcome)?</p> <ul style="list-style-type: none"> Developed/Identified training for key staff involved in the Pollution Prevention and Good Housekeeping for Campus Operations MCM Provided training for key staff and contractors involved in the Pollution Prevention and Good Housekeeping for Campus Operations MCM: <i>Campus Operations Good Housekeeping BMPs</i> <p>Did the MCM raise a target audience’s awareness of an issue (Level 2 Outcome)?</p> <ul style="list-style-type: none"> Percent increase in awareness before and after the training Percent awareness—year to year

¹⁷ As each BMP is developed additional assessment tasks may be called out to aid in the assessment of each set of practices.

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the measurable goals are presented in **Table 2.6.7**.

Table 2.6-7. PP3 BMP Implementation Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²					
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	TAPS	ASUCD	Food Service	Student Housing
Conduct, and revise if necessary, effectiveness assessment	N	X	X	X	X	X	P	S	S	S	S	S
Identify program modifications as a result of assessment	N	X	X	X	X	X	P	P	P	P	P	P

¹C – continue; E – enhance; N – new

²P – primary responsibility; S – secondary responsibility

3.0 Program Implementation and Management

3.1 PROGRAM IMPLEMENTATION

Section 2 of the Stormwater Management Plan (SWMP) is structured to identify activities that must be implemented, time schedule for implementation, and responsible parties for implementing the activities. Full implementation of activities will result in an effective Stormwater Program and compliance with the objectives set forth in the Phase II MS4 General Permit.

The Phase II MS4 General Permit requires that the SWMP be fully implemented within five years of designation by the Regional Water Board. The SWMP was designed to be fully implemented at the end of the five-year period. However, UC Davis recognizes that the State Water Board will likely re-issue the Phase II MS4 General Permit before the SWMP is fully implemented. When the State Water Board re-issues the Phase II MS4 General Permit UC Davis will follow the revised permit's requirements for updating the SWMP.

3.2 PROGRAM EVALUATION

Performance standards identified in Sections 2.1 through 2.6 of this SWMP were developed to facilitate annual program evaluations through use of a Program Effectiveness Assessment strategy. The intent is that, by accomplishing various activities and keeping records as detailed in the Assessment Data and Information section of each Best Management Practice (BMP), an evaluation of the programs' effectiveness becomes feasible. Furthermore, an annual review of program effectiveness and accomplishments will serve as a feedback loop and allow for productive modifications to the SWMP in subsequent years to better address potential stormwater runoff pollution. The annual program evaluation will coincide with the Annual Progress Report, which contains much of the information needed to perform a complete evaluation.

UC Davis anticipates completing the first effectiveness assessment of the SWMP after completing a full year of implementation. Should the SWMP be approved and go into effect for a partial year, UC Davis will discuss the scope of the effectiveness assessment with the Regional Water Board, but expects that if the SWMP has been implemented for less than 12 months that a full program effectiveness assessment will not be feasible.

3.3 ANNUAL REPORTS

As required by the Phase II MS4 General Permit, UC Davis will submit an Annual Report the Regional Water Board by September 15th of each year once permit coverage is initiated. The Annual Report will summarize the activities performed throughout the reporting period (July 1 through June 30) and will include:

- Status of compliance with permit conditions
- Assessment of the appropriateness and effectiveness of the identified BMPs
- Status of the identified measurable goals
- Results of information collected and analyzed, including monitoring data, if any, during the reporting period
- Summary of the stormwater activities planned for the next reporting cycle

- Identification of any proposed change(s) to SWMP along with a justification of why the change(s) are necessary
- Identification of a change in the person or persons implementing and coordinating SWMP

If appropriate, UC Davis will use the Phase II MS4 General Permit Annual Report Form as a template for its Annual Report.

3.4 SWMP REVISIONS

UC Davis will revise the SWMP to incorporate any new or modified BMPs or measurable goals developed through the program effectiveness assessments and annual reporting process or upon request of the Regional Water Board. UC Davis proposed SWMP revisions will be identified in the Annual Report along with a revision schedule. Revisions to the SWMP will be submitted to the Regional Water Board.

3.5 SWMP AVAILABILITY AND RECORDS RETENTION

UC Davis will make the SWMP available to the public. UC Davis plans to maintain the SWMP on the UC Davis website, which is accessible to the public, and in the UC Davis library. Members of the public may also contact EH&S to obtain access to the SWMP during regular business hours.

UC Davis will keep records required by Phase II MS4 General Permit General Permit for at least five years (or the duration of the General Permit if continued) or as required by the Regional Water Board. Records will be made available to the Regional Water Board upon request.

3.6 PROGRAM MANAGEMENT MEASURABLE GOALS

While program management is not a Minimum Control Measure (MCM), the measurable goals listed below establish the level of effort to assess the program level implementation and management.

- Convene SWMP Review and Development Committee with representatives from the key organizations that will be responsible for implementing the SWMP
- Conduct SWMP kick-off meeting with representatives from the Regional Water Board and the key organizations that will be responsible for implementing the SWMP (after approval of SWMP)
- Conduct Annual Effectiveness Assessment
- Develop and submit Annual Report
- Retain SWMP records

Implementation Schedule and Responsible Parties

The implementation schedule and responsible parties for implementing the measurable goals are presented in **Table 3-1**.

Table 3-1 Program Management Schedule and Responsible Parties

Measurable Goal	Type of Standard ¹	Implementation Schedule					Responsible Parties ²			
		2010-2011 (Year 1)	2011-2012 (Year 2)	2012-2013 (Year 3)	2013-2014 (Year 4)	2014-2015 (Year 5)	EH&S	FM	DCM	FLM
Convene SWMP review and development committee	N	X					P	S	S	S
Conduct SWMP kick-off meeting	N	X					P	S	S	S
Conduct annual Effectiveness Assessment	N		X	X	X	X	P	S	S	S
Develop and submit Annual Report	N	X	X	X	X	X	P	S	S	S
Retain SWMP records	N	X	X	X	X	X	P			

¹ C – Continue; E – Enhance; N – New

² P – Primary responsibility; S – Secondary responsibility

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Appendix A.1 Phase II General Permit

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STATE WATER RESOURCES CONTROL BOARD (SWRCB)
WATER QUALITY ORDER NO. 2003 – 0005 – DWQ

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
GENERAL PERMIT NO. CAS000004

WASTE DISCHARGE REQUIREMENTS (WDRS)
FOR
STORM WATER DISCHARGES FROM
SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS (GENERAL PERMIT)

Table of Contents

Fact Sheet	p. 1-14
Order	p. 1-19
Attachment 1: Areas Automatically Designated	
Attachment 2: Areas Designated by the State	
Attachment 3: Non-Traditional Small MS4s	
Attachment 4: Supplemental Provisions	
Attachment 5: Communities Subject to Attachment 4	
Attachment 6: Instructions for Completing the Notice of Intent to Comply with the General Permit for the Discharge of Storm Water From Small MS4s	
Attachment 7: Notice of Intent to Comply with the General Permit for the Discharge of Storm Water From Small MS4s	
Attachment 8: Regional Water Quality Control Board Contacts	
Attachment 9: Glossary of Terms	

FACT SHEET
FOR
STATE WATER RESOURCES CONTROL BOARD (SWRCB)
WATER QUALITY ORDER NO. 2003 – 0005 – DWQ

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
GENERAL PERMIT NO. CAS000004

WASTE DISCHARGE REQUIREMENTS (WDRS)
FOR
STORM WATER DISCHARGES FROM
SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS (GENERAL PERMIT)

BACKGROUND

In 1972, the federal Water Pollution Control Act (also referred to as the Clean Water Act [CWA]) was amended to provide that the discharge of pollutants to waters of the United States from any point source is unlawful unless the discharge is in compliance with a NPDES permit. The 1987 amendments to CWA added section 402(p), which established a framework for regulating storm water discharges under the NPDES Program. Subsequently, in 1990, the U.S. Environmental Protection Agency (U.S. EPA) promulgated regulations for permitting storm water discharges from industrial sites (including construction sites that disturb five acres or more) and from municipal separate storm sewer systems (MS4s) serving a population of 100,000 people or more. These regulations, known as the Phase I regulations, require operators of medium and large MS4s to obtain storm water permits. On December 8, 1999, U.S. EPA promulgated regulations, known as Phase II, requiring permits for storm water discharges from Small MS4s and from construction sites disturbing between one and five acres of land. This General Permit regulates storm water discharges from Small MS4s.

An “MS4” is a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains): (i) designed or used for collecting or conveying storm water; (ii) which is not a combined sewer; and (iii) which is not part of a Publicly Owned Treatment Works (POTW). [See Title 40, Code of Federal Regulations (40 CFR) §122.26(b)(8).]

A “Small MS4” is an MS4 that is not permitted under the municipal Phase I regulations, and which is “owned or operated by the United States, a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, storm water, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity....” (40 CFR §122.26(b)(16)). Small MS4s *include systems similar to separate storm sewer systems in municipalities, such as systems at military bases, large hospital or prison complexes, and highways and other thoroughfares, but do not include separate storm sewers in*

very discrete areas, such as individual buildings. This permit refers to MS4s that operate throughout a community as “traditional MS4s” and MS4s that are similar to traditional MS4s but operated at a separate campus or facility as “non-traditional MS4s.”

Federal regulations allow two permitting options for storm water discharges (individual permits and general permits). SWRCB elected to adopt a statewide general permit for Small MS4s in order to efficiently regulate numerous storm water discharges under a single permit. In certain situations a storm water discharge may be more appropriately and effectively regulated by an individual permit, a region-specific general permit, or by inclusion in an existing Phase I permit. In these situations, the Regional Water Quality Control Board (RWQCB) Executive Officer will direct the Small MS4 operator to submit the appropriate application, in lieu of a Notice of Intent (NOI) to comply with the terms of this General Permit. In these situations, the individual or regional permits will govern, rather than this General Permit.

NINTH CIRCUIT COURT RULING

On January 14, 2003, the Ninth Circuit Court issued its decision in *Environmental Defense Center v. EPA*. This ruling upheld the Phase II regulations on all but three of the 20 issues contested. In summary, the court determined that applications for general permit coverage (including the NOI and Storm Water Management Program [SWMP]) must be made available to the public, the applications must be reviewed and determined to meet the Maximum Extent Practicable standard by the permitting authority before coverage commences, and there must be a process to accommodate public hearings. This General Permit is consistent with the ruling. Should the ruling be revised or vacated in the future, SWRCB may modify the General Permit.

ENTITIES SUBJECT TO THIS GENERAL PERMIT

This General Permit regulates discharges of storm water from “regulated Small MS4s.” A “regulated Small MS4” is defined as a Small MS4 that discharges to a water of the United States (U.S.) or to another MS4 regulated by an NPDES permit, and which is designated in one of the following ways:

1. Automatically designated by U.S. EPA pursuant to 40 CFR section 122.32(a)(1) because it is located within an urbanized area defined by the Bureau of the Census (see Attachment 1); or
2. Traditional Small MS4s that serve cities, counties, and unincorporated areas that are designated by SWRCB or RWQCB after consideration of the following factors:
 - a. High population density – High population density means an area with greater than 1,000 residents per square mile. Also to be considered in this definition is a high density created by a non-residential population, such as tourists or commuters.
 - b. High growth or growth potential – If an area grew by more than 25 percent between 1990 and 2000, it is a high growth area. If an area anticipates a growth rate of more than 25 percent over a 10-year period ending prior to the end of the first permit term, it has high growth potential.

- c. Significant contributor of pollutants to an interconnected permitted MS4 – A Small MS4 is interconnected with a separately permitted MS4 if storm water that has entered the Small MS4 is allowed to flow directly into a permitted MS4. In general, if the Small MS4 discharges more than 10 percent of its storm water to the permitted MS4, or its discharge makes up more than 10 percent of the other permitted MS4’s total storm water volume, it is a significant contributor of pollutants to the permitted MS4. In specific cases, the MS4s involved or third parties may show that the 10 percent threshold is inappropriate for the MS4 in question.
- d. Discharge to sensitive water bodies – Sensitive water bodies are receiving waters, which are a priority to protect. They include the following:
- those listed as providing or known to provide habitat for threatened or endangered species;
 - those used for recreation that are subject to beach closings or health warnings; or
 - those listed as impaired pursuant to CWA section 303(d) due to constituents of concern in urban runoff (these include biochemical oxygen demand [BOD], sediment, pathogens, petroleum hydrocarbons, heavy metals, floatables, polycyclic aromatic hydrocarbons [PAHs], trash, and other constituents that are found in the MS4 discharge).

Additional criteria to qualify as a sensitive water body may exist and may be determined by SWRCB or RWQCB on a case-by-case basis.

- e. Significant contributor of pollutants to waters of the U.S. – Specific conditions presented by the MS4 may lead to significant pollutant loading to waters of the U.S. that are otherwise unregulated or inadequately regulated. An example of such a condition may be the presence of a large transportation industry.

These factors are to be considered when evaluating whether a Small MS4 should be regulated pursuant to this General Permit. An MS4 and the population that it serves need not meet all of the factors to be designated. SWRCB designates a number of Small MS4s according to these criteria through this General Permit (see Attachment 2).

Non-traditional Small MS4s may also be designated to seek permit coverage. These include non-traditional MS4s that are located within or discharge to a permitted MS4 and those that pose significant water quality threats. In general, these are storm water systems serving public campuses (including universities, community colleges, primary schools, and other publicly owned learning institutions with campuses), military bases, and prison and hospital complexes within or adjacent to other regulated MS4s, or which pose significant water quality threats. SWRCB considered designating non-traditional Small MS4s when adopting this General Permit. However, the *Environmental Defense Center* ruling requires that SWRCB and RWQCBs change their procedures for implementing this General Permit. In compliance with that decision, each

NOI and SWMP must be reviewed and approved, and in some cases considered in a public hearing, prior to the Small MS4 obtaining coverage under the General Permit. Therefore, SWRCB is delaying making these designations and the General Permit does not designate any non-traditional MS4s. A list of non-traditional MS4s that are anticipated to be designated within this permit term is included in Attachment 3 of this General Permit. These or other non-traditional MS4s may be designated by SWRCB or RWQCB at any time subsequent to the adoption of this General Permit.

The criteria selected to designate Small MS4s to be regulated are based on the potential to impact water quality due to conditions influencing discharges into their system or due to where they discharge. Some of the definitions provide “cut-off numbers.” Although there is no regulatory standard that mandates which numbers to use, dividing lines must be established in order to effectively use them as criteria.

Specifically, the high growth factor uses 25 percent growth over ten years. The average growth (based on county data from the Census) in California between 1990 and 2000 was 15.8 percent. The standard deviation was 9.9. Growth rates outside one standard deviation are more than 25.7 percent. The standard deviation is generally an indication of the spread of data. In defining the high growth factor, the standard deviation was used because it sets the limits within which most areas of California fall. County data was used because it was consistently available, whereas 1990 populations for several of the cities and places were not readily available. Additionally, county data gives a broader picture of the growth dynamics in California. Because the data is not normally distributed, 68 percent of the data points do not necessarily fall within one standard deviation of the mean. It does, however, provide a number in which to compare city and place growth rates to the average growth rate of California. The number was rounded to 25 percent for ease of application and with the understanding that it is an approximation.

The significant contributor of pollutants to an interconnected permitted MS4 definition uses a volume value of 10 percent, with the assumption that storm water contains pollutants. This is meant to capture flows that may affect water quality or the permit compliance status of another MS4, but exclude incidental flows between communities.

APPLICATION REQUIREMENTS

Regulated Small MS4s, automatically designated because they are within an urbanized area (Attachment 1), must submit to the appropriate RWQCB by August 8, 2003 a complete application package. A complete package includes an NOI (Attachment 7), a complete SWMP (one hard copy and one electronic copy in Word or PDF format), and an appropriate fee.

The August 8, 2003 deadline is an administrative deadline to comply with the General Permit. Section 122.33(c)(1) of 40 CFR required automatically designated Small MS4s to submit an application by March 10, 2003. Those applications received from Small MS4s that submitted applications to comply with the federal deadline will be considered as an application to meet the requirements of this General Permit. If the application package is deemed complete by the RWQCB staff, it will be posted on the internet and made available for public review and public hearing if requested subsequent to permit adoption.

Regulated Small MS4s that are traditional MS4s designated by the SWRCB or RWQCB must submit to the appropriate RWQCB, within 180 days of notification of designation (or at a later

date stated by SWRCB or RWQCB), an NOI (Attachment 7), a complete SWMP (one hard copy and one electronic copy in Word or PDF format), and an appropriate fee. Those traditional MS4s identified in Attachment 2 of this General Permit are being notified of their designation by SWRCB upon adoption of this General Permit. They must, therefore, submit their NOI and SWMP by October 27, 2003.

Regulated Small MS4s that are non-traditional MS4s designated by SWRCB or RWQCB, including those in Attachment 3, must submit to the appropriate RWQCB, within 180 days of notification of designation (or at a later date stated by SWRCB or RWQCB), an NOI (Attachment 7), a complete SWMP (one hard copy and one electronic copy in Word or PDF format), and an appropriate fee.

Regulated Small MS4s relying entirely on Separate Implementing Entities (SIEs) that are also permitted, to implement their entire storm water programs are not required to submit a SWMP if the SIE being relied on has an approved SWMP. Proof of SWMP approval, such as a copy of the RWQCB letter, must be submitted to the RWQCB by the applying Small MS4, along with the NOI and an appropriate fee.

Regulated Small MS4s that fail to obtain coverage under this General Permit or another NPDES permit for storm water discharges will be in violation of the CWA and the Porter-Cologne Water Quality Control Act.

Receipt of applications deemed complete by RWQCB staff will be acknowledged on SWRCB's website at <http://www.swrcb.ca.gov/stormwtr/index.html> for a minimum of 60 days. When a SWMP is received by an RWQCB, those members of the public that have indicated they would like to receive notice, will receive an email from RWQCB staff that a SWMP has been received. During this 60-day public review period, a member of the public may request a copy of the SWMP and request that a public hearing be held by RWQCB. If a public hearing is requested, the hearing itself will be public noticed for a minimum of 30 days. If no hearing is requested, the RWQCB Executive Officer will notify the regulated MS4 that it has obtained permit coverage only after RWQCB staff has reviewed the SWMP and has determined that the SWMP meets the MEP standard established in this permit.

Attachment 8 lists RWQCB contact information for questions and submittals.

GENERAL PERMIT REQUIREMENTS

Prohibitions

This General Permit effectively prohibits the discharge of materials other than storm water that are not "authorized non-storm water discharges" (see General Permit § D.2.c) or authorized by a separate NPDES permit. This General Permit also incorporates discharge prohibitions contained in Statewide Water Quality Control Plans and Regional Water Quality Control Plans (Basin Plans).

Effluent Limitations

Permittees must implement Best Management Practices (BMPs) that reduce pollutants in storm water runoff to the technology-based standard of Maximum Extent Practicable (MEP) to protect water quality. In accordance with 40 CFR section 122.44(k)(2), the inclusion of BMPs in lieu of numeric effluent limitations is appropriate in storm water permits.

Discharges shall not contain reportable quantities of hazardous substance as established at 40 CFR section 117.3 or 40 CFR section 302.4.

Preparation of SWMP

This General Permit requires regulated Small MS4s to:

1. Develop and implement a SWMP that describes BMPs, measurable goals, and timetables for implementation in the following six program areas (Minimum Control Measures):

Public Education

The Permittee must educate the public in its permitted jurisdiction about the importance of the storm water program and the public's role in the program.

Public Participation

The Permittee must comply with all State and local notice requirements when implementing a public involvement/participation program.

Illicit Discharge Detection and Elimination

The Permittee must adopt and enforce ordinances or take equivalent measures that prohibit illicit discharges. The Permittee must also implement a program to detect illicit discharges.

Construction Site Storm Water Runoff Control

The Permittee must develop a program to control the discharge of pollutants from construction sites greater than or equal to one acre in size within its permitted jurisdiction. The program must include inspections of construction sites and enforcement actions against violators.

Post Construction Storm Water Management

The Permittee must require long-term post-construction BMPs that protect water quality and control runoff flow, to be incorporated into development and significant redevelopment projects. Post-construction programs are most efficient when they stress (i) low impact design; (ii) source controls; and (iii) treatment controls.

For non-traditional MS4s that seek coverage under this Permit, implementation of this

control measure will not require redesign of projects under active construction at the time of designation or for K-12 school or community college facilities that have been submitted to the Department of General Services, Division of the State Architect before adoption of the permit, and which receive final approval from the State Allocation Board or the Public Works Board, as appropriate on or before December 31, 2004. SWMP must, however, specify how the control measure will be implemented within five years of designation.

Pollution Prevention/Good Housekeeping for Municipal Operations

The Permittee must examine its own activities and develop a program to prevent the discharge of pollutants from these activities. At a minimum, the program must educate staff on pollution prevention, and minimize pollutant sources.

2. Reduce its discharge of pollutants to the MEP.
3. Annually report on the progress of SWMP implementation.

Development and Implementation of SWMP

SWMP must describe how pollutants in storm water runoff will be controlled and describe BMPs that address the six Minimum Control Measures. Each BMP must have accompanying measurable goals that will be achieved during the permit term, or within five years of designation if designated subsequent to permit adoption, as a means of determining program compliance and accomplishments and as an indicator of potential program effectiveness. The measurable goals should be definable tasks such as number of outreach presentations to make, number of radio spots to purchase, or percentage of pollutant loading to reduce (other examples of measurable goals can be found on U.S. EPA's web-site at <http://cfpub.epa.gov/npdes/stormwater/measurablegoals/index.cfm>). This approach provides the flexibility to target an MS4's problem areas while working within the existing organization.

It is not anticipated that the SWMP be fully implemented upon submittal with the NOI. It is the intent of this General Permit that SWMPs submitted with the NOI contain sufficient information such that RWQCB staff and interested parties understand the BMPs that will be implemented or will be developed and implemented over the course of the General Permit term or, for Small MS4s designated subsequent to permit adoption, over a five-year period from designation. It is also expected that SWMPs will protect water quality, contain measurable goals and schedules, and assign responsible parties for each BMP. It is anticipated that the SWMP initially submitted may be revised or modified based on review of RWQCB staff or on comments provided by interested parties in accordance with Provisions G and H.19 of the General Permit.

For example, it may be proposed that a storm water logo be developed (or an existing one modified) by the end of the first year; an ordinance prohibiting non-storm water discharges be adopted by the end of the second year; a survey of non-storm water discharges throughout the city be completed by the end of the second year; a brochure targeting the restaurant community regarding proper practices to eliminate non-storm water discharges be developed or obtained by the end of the fourth year; and the brochure be distributed to 25 percent of the restaurants

within the city during health department inspections by the end of the fifth year. (This example mentions only one activity each year. In fact, numerous activities will occur throughout the permit term that ensure that a SWMP addressing all six Minimum Control Measures is implemented by the end of the permit term, or within five years of designation for Small MS4s designated subsequent to adoption of the Permit.)

The main goal of this General Permit is to protect water quality from the impacts of storm water runoff from Small MS4s. The intent is that storm water quality impacts will be considered in all aspects of a municipality's activities and that multiple departments within the municipality will work together to implement storm water BMPs. For instance, the planning department may work with the public works department when considering projects and their potential storm water impacts. Also, the health department can work with public works in a complementary manner to spread a consistent message about illicit discharges.

Many of the activities that a municipality already does can be recognized as a benefit to storm water or can be modified to add a storm water quality twist. A critical element of SWMP development is an assessment of activities already being conducted. For example, many communities already have a household hazardous waste program, which can be assumed to reduce illicit discharges to the MS4. Likewise, they examine potential flooding impacts of new development. This process can be modified to also examine water quality impacts as well as quantity.

Similarly, the Minimum Control Measures emphasize working with the public to prevent pollution during their everyday activities as well as to gain support for program funding. The MS4 has the flexibility to target specific segments of its residential or employee population in ways that are most appropriate for that particular segment. Taken together, the suite of public education approaches an MS4 takes can create a robust multimedia campaign that has a single message, which is threaded throughout the community through implementation of BMPs in the six program areas.

For links to information on how to implement each of the Minimum Control Measures, including sample ordinances that address the respective Minimum Control Measures, please see SWRCB's internet site at <http://www.swrcb.ca.gov/stormwtr/municipal.html>. Additionally, in accordance with 40 CFR section 122.34(d)(2), SWRCB provides U.S. EPA's menu of BMPs to consider when developing a SWMP. This menu is available on U.S. EPA's internet site at http://cfpub1.epa.gov/npdes/stormwater/swphase2.cfm?program_id=6. The menu provides examples of BMPs and associated measurable goals; however, other BMPs and measurable goals may be used.

MEP

MEP is the technology-based standard established by Congress in CWA section 402(p)(3)(B)(iii) that municipal dischargers of storm water must meet. Technology-based standards establish the level of pollutant reductions that dischargers must achieve. MEP is generally a result of emphasizing pollution prevention and source control BMPs as the first lines of defense in

combination with structural and treatment methods where appropriate serving as additional lines of defense. The MEP approach is an ever evolving, flexible, and advancing concept, which considers technical and economic feasibility. As knowledge about controlling urban runoff continues to evolve, so does that which constitutes MEP. The individual and collective activities elucidated in the MS4's SWMP become its proposal for reducing or eliminating pollutants in storm water to the MEP. The way in which MEP is met may vary between communities.

The MEP standard applies to all regulated MS4s, including those in Phase I and Small MS4s regulated by this General Permit. Consistent with U.S. EPA guidance, the MEP standard in California is applied so that a first-round storm water permit requires BMPs that will be expanded or better-tailored in subsequent permits. In choosing BMPs, the major focus is on technical feasibility, but cost, effectiveness, and public acceptance are also relevant. If a Permittee chooses only the most inexpensive BMPs, it is likely that MEP has not been met. If a Permittee employs all applicable BMPs except those that are not technically feasible in the locality, or whose cost exceeds any benefit to be derived, it would meet the MEP standard. MEP requires Permittees to choose effective BMPs, and to reject applicable BMPs only where other effective BMPs will serve the same purpose, the BMPs are not technically feasible, or the cost is prohibitive. (See SWRCB Order WQ 2000-11, <http://www.swrcb.ca.gov/resdec/wqorders/2000/00wqo.html>.)

Generally, in order to meet MEP, communities that have greater water quality impacts must put forth a greater level of effort. Alternatively, for similar water quality conditions, communities should put forth an equivalent level of effort. However, because larger communities have greater resources (both financial resources as well as existing related programs that can help in implementing storm water quality programs), it may appear that they have more robust storm water programs. Additionally, because storm water programs are locally driven and local conditions vary, some BMPs may be more effective in one community than in another. A community that has a high growth rate would derive more benefit on focusing on construction and post-construction programs than on an illicit connection program because illicit connections are more prevalent in older communities.

In accordance with the Ninth Circuit Court ruling, prior to obtaining permit coverage, SWMPs will be evaluated for compliance with the MEP standard by the RWQCB Executive Officer or, if requested, considered for approval in a public hearing conducted by RWQCB.

Many Phase I MS4s have been permitted under storm water regulations for more than ten years and have had that time to develop programs intended to reduce pollutants in their storm water discharge to MEP. It is understood that storm water quality programs and regulations are new to the entities that will be regulated under this General Permit. Therefore, it is anticipated that this General Permit term will serve as a "ramping-up" period and that programs implemented by Phase II communities will not necessarily conform to programs implemented by Phase I communities. Despite this understanding, however, many of the lessons learned and information developed by Phase I communities is available to smaller communities as a guide and may be used by Phase II communities.

By the expiration date of this General Permit, traditional and non-traditional Small MS4s serving a population of 50,000 people or more, or that are subject to high growth, must require specific design standards as part of their post-construction program (as outlined in Attachment 4 of this General Permit, or a functionally equivalent program that is acceptable to the appropriate RWQCB), and they must comply with water quality standards through implementing better-tailored BMPs in an iterative process. These more stringent requirements are applied to communities that are larger and, therefore, capable of a more extensive storm water program, and to communities that are fast growing, and therefore may have greater impacts on storm water runoff associated with construction and the loss of pervious lands. Studies have found the amount of impervious surface in a community is strongly correlated with the community's water quality. New development and redevelopment result in increased impervious surfaces in a community. The design standards in Attachment 4 focus on mitigating the impacts caused by increased impervious surfaces through establishing minimum BMP requirements that stress (i) low impact design; (ii) source controls; and (iii) treatment controls. The design standards include minimum sizing criteria for treatment controls and establish maintenance requirements.

BMPs that may be used to comply with the design standards can be found in U.S. EPA's Toolbox of BMPs at http://cfpub1.epa.gov/npdes/stormwater/swphase2.cfm?program_id=6. Additionally, some RWQCBs may have lists of approved references and resources.

Small MS4s designated subsequent to permit adoption have five years from designation to achieve compliance with the Supplemental Provisions. Attachment 5 provides a list of communities that SWRCB anticipates being subject to the provisions in Attachment 4.

Receiving Water Limitations

Attachment 4 establishes receiving water limitations that apply to larger and fast-growing regulated Small MS4s that are required to comply with Supplemental Provisions of this General Permit. This permit allows regulated Small MS4s up to five years to fully implement their SWMPs. Therefore, regulated Small MS4s must begin to comply with the receiving water limitations iterative process once their plans are fully implemented. The receiving water limitation language provided in this General Permit is identical to the language established in SWRCB Water Quality Order WQ-99-05 adopted by SWRCB on June 17, 1999. As interpreted in SWRCB Water Quality Order WQ-2001-15, adopted by SWRCB on November 15, 2001, the receiving water limitations in this General Permit do not require strict compliance with water quality standards. SWRCB language requires that SWMPs be designed to achieve compliance with water quality standards over time, through an iterative approach requiring improved BMPs. Upon full implementation of the SWMP, exceedances of water quality standards must be addressed through the iterative process.

Reporting Requirements

The Permittee must track and assess its program to ensure BMP effectiveness and must conform to other monitoring requirements that may be imposed by RWQCB.

The Permittee is required to submit annual reports to the appropriate RWQCB by September 15th of each year (for Small MS4s designated with the adoption of this permit, the first annual report is to be submitted in 2004), or as otherwise required by the RWQCB Executive Officer. Among other things, the Permittee shall evaluate its compliance with permit conditions, evaluate and assess the effectiveness of its BMPs, summarize the results of any monitoring performed, summarize the activities planned for the next reporting cycle, and, if necessary, propose changes to SWMP.

Monitoring

Inspections, as a form of visual monitoring, are important to a storm water program. Inspections of storm water runoff and infrastructure (such as drop inlets, basins, and gutters) can say a lot about the effectiveness and needs of a storm water program. Through inspections, non-storm water discharges can be discovered and subsequently stopped, maintenance needs can be identified, and visual pollutants and erosion problems can be detected. Inspections of facilities are also important for public education and outreach, to ensure proper BMP implementation and maintenance, and to detect non-storm water discharges. Additionally, chemical monitoring can be used to involve the public through citizen monitoring groups, detect pollutants, identify and target pollutants of concern, illustrate water quality improvements and permit compliance, and participate in total maximum daily load (TMDL) development and implementation.

Monitoring environmental indicators through bio-assessments or other less technical methods may also be a key component of a program. Although it may be more challenging, it is also very valuable because it is the “final product,” not just for a storm water program but for the broader environmental health of a community.

More specifically, the objectives of a monitoring program may include:

- Assessing compliance with this General Permit;
- Measuring and improving the effectiveness of SWMP;
- Assessing the chemical, physical, and biological impacts on receiving waters resulting from urban runoff;
- Characterizing storm water discharges;
- Identifying sources of pollutants; and
- Assessing the overall health and evaluating long-term trends in receiving water quality.

While only inspections of construction sites, as part of the Construction Site Storm Water Runoff Control Minimum Control Measure, are specifically required, as elucidated above, other monitoring tasks may be appropriate in a storm water program. Also, the RWQCB can require additional monitoring.

Termination of Coverage

A Permittee may terminate coverage if: a new operator has assumed responsibility for the regulated Small MS4; the Permittee has ceased operation of its MS4; or all discharge of runoff from the Small MS4 has been eliminated. To terminate coverage, the Permittee must submit to RWQCB a written request for permit termination.

Reliance on a SIE

A Permittee may rely on a separate entity to implement one or more of the six Minimum Control Measures, if the separate entity can appropriately and adequately address the storm water issues of the Permittee. To do this, both entities must agree to the arrangement, and the Permittee must comply with the applicable parts of the SIE's program. The arrangement is subject to the approval of the RWQCB Executive Officer.

In accordance with section 122.35(a)(3), the Permittee remains responsible for compliance with its permit obligations if SIE fails to implement the control measure(s) (or component thereof). Therefore, the entities are encouraged to enter into a legally binding agreement to minimize any uncertainty about compliance with the permit.

If the Permittee relies on an SIE to implement all six Minimum Control Measures and SIE also has a storm water permit, the Permittee relying on SIE must still submit an NOI, appropriate fee, proof that SIE's SWMP has been approved by RWQCB or its staff, and certification of the arrangement. However, the Permittee is not required to develop or submit a SWMP or annual reports, unless requested to do so by the RWQCB Executive Officer. The arrangement is subject to the approval of the RWQCB Executive Officer.

School districts present an example of where an SIE arrangement may be appropriate, either by forming an agreement with a city or with an umbrella agency, such as the County Office of Education. Because schools provide a large audience for storm water education, as part of the agreement, the two entities may coordinate an education program. An individual school or a school district may agree to provide a one-hour slot for all the second and fifth grade classes during which the city would bring in its own storm water presentation. Alternatively, the school could agree to teach a lesson in conjunction with an outdoor education science project, which may also incorporate a public involvement component. Additionally, the school and the city or Office of Education may arrange to have the school's maintenance staff attend the other entity's training sessions.

Retention of Records

The Permittee is required to retain records of all monitoring information and copies of all reports required by this General Permit for a period of at least five years from the date generated. This period may be extended by request of SWRCB or RWQCB.

Role of RWQCBs

RWQCBs and their staff will review and decide whether to approve SWMPs and, where requested, conduct public hearings on NOIs and SWMPs. Upon approval, they will notify Permittees that they have obtained permit coverage. They will also oversee implementation and compliance with this General Permit. As appropriate, they will review reports, require modification to SWMPs and other submissions, impose region-specific monitoring requirements, conduct inspections, take enforcement actions against violators of this General Permit, and make additional designations of regulated Small MS4s pursuant to this General Permit. They may also issue individual permits to regulated Small MS4s, and alternative general permits to categories of regulated Small MS4s. Upon issuance of such permits by an RWQCB, this General Permit shall no longer regulate the affected Small MS4s.

The Permittee and RWQCB are encouraged to work together to accomplish the goals of the storm water program. Specifically, they can coordinate the oversight of construction and industrial sites. For example, Permittees are required to implement a construction program. This program must include procedures for construction site inspection and enforcement. Construction sites disturbing an acre of land or more are also subject to inspections by RWQCB under the Statewide General Permit for Discharges of Storm Water Associated with Construction Activity. U.S. EPA intended to provide a structure that requires permitting through the federal CWA while at the same time achieving local oversight of construction projects. A structured plan review process and field enforcement at the local level, which is also required by this General Permit, were cited in the preamble to the Phase II regulations as the most effective components of a construction program.

Similarly, as part of the illicit discharge detection and elimination program, the Permittee may inspect facilities that are permitted by the Statewide General Permit for Discharges of Storm Water Associated with Industrial Activity and subject to RWQCB inspections.

The Small MS4 and RWQCB are encouraged to coordinate efforts and use each of their enforcement tools in the most effective manner. For instance, the Small MS4 may identify a construction site operator that is not in compliance with the local requirements and the Construction General Permit. The Small MS4 may establish a fee for re-inspection if a site is out of compliance. If education efforts and the inspection fee fail to bring the site into compliance, the Small MS4 may contact RWQCB and arrange a dual inspection and start enforcement procedures under the CWA if compliance is not achieved.

Relationship Between the Small MS4 Permit and the General Permit for Discharges of Storm Water Associated with Industrial Activity (Industrial Permit)

Some MS4 operators may also have facilities that are subject to the Industrial Permit. While the intent of both of these permits is to reduce pollutants in storm water, neither permit's requirements totally encompass the other. This General Permit requires that MS4 operators address six Minimum Control Measures, while the Industrial Permit requires the development and implementation of Storm Water Pollution Prevention Plans (SWPPP) for certain "industrial" activities as well as requiring specific visual and chemical monitoring. In the Preamble to the Phase II regulations, U.S. EPA notes that for a combination permit to be acceptable, it must contain all of the requirements for each permit. Further, "when viewed in its entirety, a

combination permit, which by necessity would need to contain all elements of otherwise separate industrial and MS4 permit requirements, and require NOI information for each separate industrial activity, may have few advantages when compared to obtaining separate MS4 and industrial general permit coverage.”

Where the permits do overlap, one program may reference the other. More specifically, the Good Housekeeping for Municipal Operations Minimum Control Measure requires evaluation of municipal operations, some of which may be covered under the Industrial Permit. The development and implementation of SWPPP under the Industrial Permit will likely satisfy the Good Housekeeping requirements for those industrial activities. SWMP may incorporate by reference the appropriate SWPPP.

There may be instances where a non-traditional MS4 has, under the Industrial Permit, obtained coverage for the entire facility (rather than only those areas where industrial activities occur) and has developed a SWPPP that addresses the six Minimum Control Measures required by this General Permit. In these instances, the non-traditional Small MS4 is not required to obtain coverage under this General Permit. The entity should, in such cases, provide to the appropriate RWQCB documentation that its SWPPP addresses the six Minimum Control Measures.

**STATE WATER RESOURCES CONTROL BOARD (SWRCB)
WATER QUALITY ORDER NO. 2003 - 0005 – DWQ**

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
GENERAL PERMIT NO. CAS00000X**

**WASTE DISCHARGE REQUIREMENTS (WDRs)
FOR
STORM WATER DISCHARGES FROM SMALL MUNICIPAL SEPARATE STORM
SEWER SYSTEMS (MS4s) (GENERAL PERMIT)**

SWRCB finds that:

1. Urban runoff is a leading cause of pollution throughout California.
2. Pollutants of concern found in urban runoff include sediments, non-sediment solids, nutrients, pathogens, oxygen-demanding substances, petroleum hydrocarbons, heavy metals, floatables, polycyclic aromatic hydrocarbons (PAHs), trash, and pesticides and herbicides.
3. During urban development, two important changes occur. First, where no urban development has previously occurred, natural vegetated pervious ground cover is converted to impervious surfaces such as paved highways, streets, rooftops, and parking lots. Natural vegetated soil can both absorb rainwater and remove pollutants providing a very effective purification process. Because pavement and concrete can neither absorb water nor remove pollutants, the natural purification characteristics of the land are lost. Second, urban development creates new pollutant sources as human population density increases and brings with it proportionately higher levels of vehicle emissions, vehicle maintenance wastes, municipal sewage, pesticides, household hazardous wastes, pet wastes, trash, etc., which can be washed into the MS4. As a result of these two changes, the runoff leaving a developed urban area may be significantly greater in volume, velocity, and/or pollutant load than pre-development runoff from the same area.
4. A higher percentage of impervious area correlates to a greater pollutant loading, resulting in turbid water, nutrient enrichment, bacterial contamination, organic matter loads, toxic compounds, temperature increases, and increases of trash or debris.
5. Pollutants present in storm water can have damaging effects on both human health and aquatic ecosystems. In addition, the increased flows and volumes of storm water discharged from impervious surfaces resulting from development can significantly impact beneficial uses of aquatic ecosystems due to physical modifications of watercourses, such as bank erosion and widening of channels.

6. When water quality impacts are considered during the planning stages of a project, new development and many redevelopment projects can more efficiently incorporate measures to protect water quality.
7. On December 8, 1999, the U.S. Environmental Protection Agency (EPA) promulgated regulations under authority of the Clean Water Act (CWA) section 402(p)(6). These regulations require SWRCB to issue NPDES storm water permits to operators of small municipal separate storm sewer systems (Small MS4s) that discharge to waters of the U.S.
8. Of the Small MS4s defined by federal regulations, only “regulated Small MS4s” must obtain a permit. Title 40 of the Code of Federal Regulations (40 CFR) section 122.32(a) describes regulated Small MS4s as those traditional Small MS4s located within an urbanized area as determined by the latest Decennial Census by the Bureau of the Census and other Small MS4s that are designated by the permitting authority in accordance with designation criteria in Findings 10 and 11 below. Traditional Small MS4s within urbanized areas (Attachment 1) are automatically designated and are not subject to the designation criteria provided in Finding 10.
9. Section 123.35(b) of 40 CFR requires SWRCB to develop a process, as well as criteria, to designate Small MS4s as regulated Small MS4s.
10. In developing the designation criteria, factors were chosen to include parameters that may affect water quality. The following criteria will be considered in designating Small MS4s operated within a city or county as regulated Small MS4s.
 - a. High population density – High population density means an area with greater than 1,000 residents per square mile. Also to be considered in this definition is a high density created by a non-residential population, such as tourists or commuters.
 - b. High growth or growth potential – If an area grew by more than 25 percent between 1990 and 2000, it is a high growth area. If an area anticipates a growth rate of more than 25 percent over a 10-year period ending prior to the end of the first permit term, it has high growth potential.
 - c. Significant contributor of pollutants to an interconnected permitted MS4 – A Small MS4 is interconnected with a separately permitted MS4 if storm water that has entered the Small MS4 is allowed to flow directly into a permitted MS4. In general, if the Small MS4 discharges more than 10 percent of its storm water to the permitted MS4, or its discharge makes up more than 10 percent of the other permitted MS4’s total storm water volume, it is a significant contributor of pollutants to the permitted MS4. In specific cases, the MS4s involved or third parties may show that the 10 percent threshold is inappropriate for the MS4 in question.
 - d. Discharge to sensitive water bodies – Sensitive water bodies are receiving waters, which are a priority to protect. They include the following:

- those listed as providing or known to provide habitat for threatened or endangered species;
- those used for recreation that are subject to beach closings or health warnings; or
- those listed as impaired pursuant to CWA section 303(d) due to constituents of concern in urban runoff (these include biochemical oxygen demand (BOD), sediment, pathogens, oil and grease, and other constituents that are found in the MS4 discharge).

Additional criteria to qualify as a sensitive water body may exist and may be used by SWRCB or RWQCB on a case-by-case basis.

- e. Significant contributor of pollutants to waters of the United States (U.S.) – Specific conditions presented by the MS4 may lead to significant pollutant loading to waters of the U.S. that are otherwise unregulated or inadequately regulated. An example of such a condition may be the presence of a large transportation industry.

This General Permit serves as notice to those Small MS4s on Attachment 2 that they are designated as regulated Small MS4s by the SWRCB at the time of permit adoption.

11. Section 122.26(b)(16)(iii) of 40 CFR defines systems that are similar to separate storm sewer systems in cities and counties, such as systems at military bases, large hospital or prison complexes, and highways and other thoroughfares as Small MS4s. In this General Permit these types of Small MS4s are referred to as non-traditional MS4s that may be designated as regulated Small MS4s and required to seek coverage under this General Permit or coverage under a separate permit. Non-traditional MS4s often operate storm sewers that are similar to traditional MS4s operated by cities or counties and discharge the same types of pollutants that are typically associated with urban runoff.
12. This permit does not designate any non-traditional MS4s. SWRCB or RWQCB may designate non-traditional MS4s at any time subsequent to the adoption of this General Permit. Non-traditional MS4s that may be designated at a future date include, but are not limited to, those listed in Attachment 3 of this General Permit.
13. Non-traditional Small MS4 entities that are designated, but whose entire facilities are subject to the NPDES General Permit for the Discharge of Storm Water Associated with Industrial Activities and whose Storm Water Pollution Prevention Plan (SWPPP) addresses all six Minimum Control Measures described in this General Permit, are not required to obtain coverage under this General Permit. Such entities must present documentation to the appropriate RWQCB, showing that they meet the requirements for exclusion from coverage.
14. This General Permit requires regulated Small MS4s (Permittees) to develop a Storm Water Management Program (SWMP) designed to reduce the discharge of pollutants to the Maximum Extent Practicable (MEP) and to protect water quality. Upon approval of SWMP by the Regional Water Quality Control Board (RWQCB) or its Executive Officer,

the Permittees obtain coverage under this General Permit. This General Permit requires implementation of SWMP.

15. SWMP will be available for public review and comment and may be subject to a public hearing if requested prior to approval.
16. Permittees can satisfy the requirements through effective implementation of a SWMP, which must contain Best Management Practices (BMPs) that address six Minimum Control Measures. SWMP must incorporate measurable goals and time schedules of implementation.
17. The MEP standard is an ever-evolving, flexible, and advancing concept, which considers technical and economic feasibility. As knowledge about controlling urban runoff continues to evolve, so does that which constitutes MEP. Reducing the discharge of storm water pollutants to MEP in order to protect beneficial uses requires review and improvement, which includes seeking new opportunities. To do this, the Permittee must conduct and document evaluation and assessment of each relevant element of its program and revise activities, control measures, BMPs, and measurable goals, as necessary to meet MEP.
18. This General Permit includes Supplemental Provisions that apply to traditional and non-traditional Small MS4s serving a population of 50,000 people or more, or that are subject to high growth. These requirements address post-construction requirements and compliance with water quality standards. These Supplemental Provisions are similar to requirements for Medium and Large MS4s (Phase I), and are appropriate because larger Small MS4s are able to have more robust storm water programs and fast-growing Small MS4s may cause greater impacts to water quality.
19. The Receiving Water Limitations language contained in Attachment 4 is identical to the language established in SWRCB Water Quality Order WQ-99-05 adopted by the SWRCB on June 17, 1999. As interpreted in SWRCB Water Quality Order WQ-2001-15, adopted by the SWRCB on November 15, 2001, the receiving water limitations in this General Permit do not require strict compliance with water quality standards, but instead require compliance with water quality standards over time, through an iterative approach requiring improved BMPs.
20. The post-construction requirements, or Design Standards, contained in Attachment 4 are consistent with Order WQ-2000-11 adopted by SWRCB on October 5, 2000.
21. The purpose of the annual performance review is to evaluate (1) SWMP's effectiveness; (2) the implementation of SWMP (3) status of measurable goals; (4) effectiveness of BMPs; and (5) improvement opportunities to achieve MEP.
22. To apply for permit coverage authorizing storm water discharges to surface waters pursuant to this General Permit, the Permittees must submit a complete application package to the appropriate RWQCB. An application package includes a Notice of Intent

(NOI) to comply with the terms of this General Permit, appropriate fee (in accordance with the most recent fee schedule¹), and SWMP. Permittees relying entirely on separately permitted Separate Implementing Entities (SIEs) to implement their entire programs are not required to submit a SWMP if the SIE being relied on has an approved SWMP. Attachment 8 gives contact information for each RWQCB.

23. Upon receipt of a complete permit application, the application will be public noticed for thirty days on SWRCB's website. During the public notice period, a member of the public may request that a public hearing be conducted by RWQCB. If no public hearing is requested, the application may be approved by the RWQCB Executive Officer. Permittees obtain coverage under the General Permit only after the SWMP has been approved.
24. Each Permittee is individually responsible for adoption and enforcement of ordinances and/or policies, implementation of identified control measures/BMPs needed to prevent or reduce pollutants in storm water, and for allocation of funds for the capital, operation and maintenance, and enforcement expenditures necessary to implement and enforce such control measures/BMPs within its jurisdiction. Enforcement actions concerning this General Permit will be pursued only against the individual Permittee responsible for specific violations of this General Permit.
25. In accordance with 40 CFR section 122.28(b)(3), a RWQCB may issue an individual MS4 NPDES Permit to a Permittee otherwise subject to this General Permit, or adopt an alternative general permit that covers storm water discharges regulated by this General Permit. The applicability of this General Permit is automatically terminated on the effective date of the individual permit or the date of approval for coverage under the alternative general permit.
26. Certain BMPs implemented or required by Permittees for urban runoff management may create a habitat for vectors (e.g., mosquitoes and rodents) if not properly designed or maintained. Close collaboration and cooperative effort between the Permittees, local vector control agencies, RWQCB staff, and the State Department of Health Services is necessary to identify and implement appropriate vector control measures that minimize potential nuisances and public health impacts resulting from vector breeding.
27. This General Permit may be reopened and modified if the decision in *Environmental Defense Center v. EPA* is revised or vacated.
28. This NPDES Permit is consistent with the antidegradation policies of 40 CFR section 131.12, SWRCB Resolution 68-16, and RWQCBs' individual Basin Plans. Implementing storm water quality programs that address the six Minimum Control Measures in previously unregulated areas will decrease the pollutant loading to the receiving waters and improve water quality.

¹ California Code of Regulations. Title 23. Division 3. Chapter 9 Waste Discharge Reports and Requirements. Article 1 Fees.

29. Following public notice in accordance with State and federal laws and regulations, SWRCB, in public hearings on December 2, 2002 and April 30, 2003, heard and considered all comments. SWRCB has prepared written responses to all significant comments.
30. This action to adopt an NPDES Permit is exempt from the provisions of the California Environmental Quality Act (Public Resources Code § 21100, et seq.) in accordance with section 13389 of the Porter-Cologne Water Quality Control Act (Porter-Cologne) (Division 7 of the California Water Code).
31. This NPDES Permit is in compliance with Part 402 of CWA and shall take effect 100 days after adoption by SWRCB. Once in effect, RWQCBs shall enforce the provisions herein.

IT IS HEREBY ORDERED that operators of Small MS4s subject to this General Permit shall comply with the following:

A. APPLICATION REQUIREMENTS

1. Deadlines for Application

- a. By August 8, 2003, all Permittees automatically designated (see Attachment 1) must either apply for coverage under this General Permit (either individually or as a co-permittee), submit an application for an individual or alternative general Small MS4 permit (if applicable), or submit a joint application for modification of an existing large or medium MS4 permit (40 CFR §122.33(c)(1)).

Permittees that submitted complete application packages prior to the adoption of this General Permit to meet the federal regulation March 10, 2003 deadline have complied with this requirement and are not required to submit a duplicate application package.

- b. By October 27, 2003, traditional Small MS4s designated according to Finding 10 (see Attachment 2), must either apply for coverage under this General Permit (either individually or as a co-permittee), submit an application for an individual or alternative general Small MS4 permit, or submit a joint application for modification of an existing large or medium MS4 permit (40 CFR §122.33(c)(2)). Written notices will be sent to designated parties subsequent to adoption of this General Permit.
- c. Non-traditional Small MS4s, or other Small MS4s, which are designated by RWQCB or SWRCB after adoption of this General Permit must apply for coverage under this General Permit (either individually or as a co-

permittee), submit a complete application for an individual or alternative general Small MS4 permit, or submit a joint application for modification of an existing large or medium MS4 permit (40 CFR §122.33(c)(2)). Applications must be submitted within 180 days of designation unless a later date is provided in the designation letter.

2. General Permit Application

To obtain coverage under this General Permit, submit to the appropriate RWQCB a completed NOI (Attachment 7), a complete SWMP (one hard copy and one electronic copy in Word or PDF format), and appropriate fee. SWMP shall meet all the requirements of Section D of this General Permit. Permittees relying entirely on SIEs pursuant to Provision D.6 and permitted under the NPDES program are not required to submit a SWMP.

3. General Permit Coverage

Permit coverage will be in effect upon the completion of the following:

- a. The Permittee has submitted a complete permit application to the appropriate RWQCB,
- b. Receipt of a complete application is noticed for a minimum of 60 days and copies provided to the public for review and comment upon request,
- c. The proposed SWMP has been reviewed by RWQCB staff, and
- d. SWMP has been approved by the RWQCB Executive Officer, or approved by RWQCB in a public hearing, if requested.

B. DISCHARGE PROHIBITIONS

1. Discharges of waste that are prohibited by Statewide Water Quality Control Plans or applicable Regional Water Quality Control Plans (Basin Plans) are prohibited.
2. Discharges from the MS4s regulated under this General Permit that cause or threaten to cause nuisance are prohibited.
3. Discharges of material other than storm water to waters of the U.S. or another permitted MS4 must be effectively prohibited, except as allowed under Provision D.2.c, or as otherwise authorized by a separate NPDES permit.

C. EFFLUENT LIMITATIONS

1. Permittees must implement BMPs that reduce pollutants in storm water to the technology-based standard of MEP.
2. Storm water discharges regulated by this General Permit shall not contain a hazardous substance in amounts equal to or in excess of a reportable quantity listed in 40 CFR Part 117 or 40 CFR Part 302.

D. STORM WATER MANAGEMENT PROGRAM REQUIREMENTS

The Permittee shall maintain, implement, and enforce an effective SWMP, and develop adequate legal authority to implement and enforce the SWMP, designed to reduce the discharge of pollutants from the permitted MS4 to MEP and to protect water quality. SWMP shall serve as the framework for identification, assignment, and implementation of control measures/BMPs. The Permittee shall implement SWMP and shall subsequently demonstrate its effectiveness and provide for necessary and appropriate revisions, modifications, and improvements to reduce pollutants in storm water discharges to the MEP. SWMP shall be fully implemented by the expiration of this General Permit, or within five years of designation for Small MS4s designated subsequent to Permit adoption, with reasonable progress made towards implementation throughout the term of the General Permit. Existing programs that have storm water quality benefits can be identified in the SWMP and be a part of a Permittee's storm water program.

SWMP shall be revised to incorporate any new or modified BMPs or measurable goals developed through the Permittee's annual reporting process. The Permittee shall incorporate changes required by or acceptable to the RWQCB Executive Officer into applicable annual revisions to SWMP and adhere to its implementation.

1. The Permittee shall maintain, implement, and enforce an effective SWMP designed to reduce the discharge of pollutants from the regulated Small MS4 to the MEP and to protect water quality.
2. SWMP must describe BMPs, and associated measurable goals, that will fulfill the requirements of the following six Minimum Control Measures.
 - a. **Public Education and Outreach on Storm Water Impacts**
The Permittee must implement a public education program to distribute educational materials to the community or conduct equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the public can take to reduce pollutants in storm water runoff. For non-traditional Permittees, the employee/user population may serve as "the public" to target for outreach and involvement.

Non-traditional Small MS4s that discharge into medium and large MS4 may integrate public education and outreach program with the existing MS4 public education and outreach programs.

b. **Public Involvement/Participation**

The Permittee must at a minimum comply with State and local public notice requirements when implementing a public involvement/participation program.

c. **Illicit Discharge Detection and Elimination**

The Permittee must:

- 1) Develop, implement, and enforce a program to detect and eliminate illicit discharges (as defined at 40 CFR §122.26(b)(2)) into the regulated Small MS4;
- 2) Develop, if not already completed, a storm sewer system map, showing the location of all outfalls and the names and locations of all waters of the U.S. that receive discharges from those outfalls;
- 3) To the extent allowable under State or local law, effectively prohibit, through ordinance, or other regulatory mechanism, non-storm water discharges into the MS4 and implement appropriate enforcement procedures and actions;
- 4) Develop and implement a plan to detect and address non-storm water discharges, including illegal dumping, to the system that are not authorized by a separate NPDES permit;
- 5) Inform public employees, businesses, and the general public of the hazards that are generally associated with illegal discharges and improper disposal of waste; and
- 6) Address the following categories of non-storm water discharges or flows (i.e., authorized non-storm water discharges) only where they are identified as significant contributors of pollutants to the Small MS4:

1. water line flushing;
2. landscape irrigation;
3. diverted stream flows;
4. rising ground waters;
5. uncontaminated ground water infiltration (as defined at 40 CFR §35.2005(20)) to separate storm sewers;
6. uncontaminated pumped ground water;
7. discharges from potable water sources;
8. foundation drains;
9. air conditioning condensation;
10. irrigation water;
11. springs;
12. water from crawl space pumps;
13. footing drains;
14. lawn watering;
15. individual residential car washing;
16. flows from riparian habitats and wetlands; and
17. dechlorinated swimming pool discharges.

Discharges or flows from fire fighting activities are excluded from the effective prohibition against non-storm water and need only be addressed where they are identified as significant sources of pollutants to waters of the U.S.

If a RWQCB Executive Officer determines that any individual or class of non-storm water discharge(s) listed above may be a significant source of pollutants to waters of the U.S. or physically interconnected MS4, or poses a threat to water quality standards (beneficial uses), the RWQCB Executive Officer may require the appropriate Permittee(s) to monitor and submit a report and to implement BMPs on the discharge.

d. **Construction Site Storm Water Runoff Control**

The Permittee must develop, implement, and enforce a program to reduce pollutants in any storm water runoff to the Small MS4 from construction activities that result in a land disturbance of greater than or equal to one acre. Reduction of storm water discharges from construction activity disturbing less than one acre must be included in your program if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more. The program must include the development and implementation of, at a minimum:

- 1) An ordinance or other regulatory mechanism to require erosion and sediment controls, as well as sanctions, or other effective mechanisms, to ensure compliance, to the extent allowable under State, or local law;

- 2) Requirements for construction site operators to implement appropriate erosion and sediment control BMPs;
- 3) Requirements for construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts to water quality;
- 4) Procedures for site plan review which incorporate consideration of potential water quality impacts;
- 5) Procedures for receipt and consideration of information submitted by the public; and
- 6) Procedures for site inspection and enforcement of control measures.

e. **Post-Construction Storm Water Management in New Development and Redevelopment**

The Permittee must:

- 1) Develop, implement, and enforce a program to address storm water runoff from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale, that discharge into the Small MS4 by ensuring that controls are in place that would prevent or minimize water quality impacts;
- 2) Develop and implement strategies, which include a combination of structural and/or non-structural BMPs appropriate for your community;
- 3) Use an ordinance or other regulatory mechanism to address post-construction runoff from new development and redevelopment projects to the extent allowable under State or local law. For those Small MS4s described in Supplemental Provision E below, the requirements must at least include the design standards contained in Attachment 4 of this General Permit or a functionally equivalent program that is acceptable to the appropriate RWQCB; and
- 4) Ensure adequate long-term operation and maintenance of BMPs.

The General Permit does not require redesign of K-12 school or community college facilities that have been submitted to the Department of General Services, Division of the State Architect before adoption of the permit, and which receive final approval from the State Allocation Board or the Public Works Board, as appropriate, on or before December 31, 2004.

f. **Pollution Prevention/Good Housekeeping for Municipal Operations**

The Permittee must:

- 1) Develop and implement an operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations; and
 - 2) Using training materials that are available from U.S. EPA, the State, or other organizations, the program must include employee training to prevent and reduce storm water pollution from activities such as park and open space maintenance, fleet building maintenance, new construction and land disturbances, and storm water system maintenance.
3. SWMP must identify the measurable goals for each of the BMPs, including, as appropriate, the months and years for scheduled actions, including interim milestones and the frequency of the action.
 4. SWMP must identify the person or persons who will implement or coordinate SWMP, as well as each Minimum Control Measure.
 5. Termination of coverage

A Permittee may terminate coverage if a new operator has assumed responsibility for the MS4, the Permittee has ceased operation of the MS4, or the Permittees has eliminated discharges from the MS4. To terminate coverage, the Permittee must submit a written request to the RWQCB.

6. Reliance on a SIE

The Permittee may rely on a SIE to satisfy one or more of the permit obligations, if the separate entity can appropriately and adequately address the storm water issues of the Permittee. The Permittee must describe the arrangement in the SWMP and the arrangement is subject to the approval of the RWQCB Executive Officer. The other entity must agree to implement the control measure(s), or components thereof, to achieve compliance with the General Permit. The Permittee remains responsible for compliance with this General Permit if the SIE fails to implement the control measure(s).

If the Permittee relies on an SIE to implement all six Minimum Control Measures and the SIE also has a storm water permit issued by SWRCB or RWQCB, the Permittee relying on the SIE must still submit an NOI, appropriate fee, and certification of the arrangement. The Permittee must note this fact in the NOI and provide proof that the SIE has an approved SWMP, but is not required to maintain a SWMP nor submit annual reports.

7. Outfalls not identified in the storm sewer system map required by Provision D.2.c.2), but constructed within the permitted area during the term of this General Permit to receiving waters identified in the NOI, shall not be considered a material change in character, location, or volume of the permitted discharge, and shall be allowed under the terms of this General Permit without permit application or permit modification, provided that the following information be provided in the subsequent annual report:
 - a. Receiving water name;
 - b. Storm sewer system map of added area;
 - c. Certification that SWMP shall be amended to include the drainage area.

E. SUPPLEMENTAL PROVISIONS

Those regulated traditional and non-traditional Small MS4s serving a population over 50,000 or that are subject to high growth (at least 25 percent over ten years) must comply with the requirements in Attachment 4 of this General Permit. Compliance is required upon full implementation of the Small MS4s' storm water management plan.

Attachment 5 provides a list of communities that SWRCB anticipates being subject to the provisions in Attachment 4.

F. REPORTING REQUIREMENTS AND MONITORING

1. Reporting

The Permittee must submit annual reports to the appropriate RWQCB by September 15th of each year (for Small MS4s designated with the adoption of this permit, the first annual report is to be submitted in 2004), or as otherwise required by the RWQCB Executive Officer, unless exempted under Provision D.6. The report shall summarize the activities performed throughout the reporting period (July 1 through June 30) and must include:

- a. The status of compliance with permit conditions;
- b. An assessment of the appropriateness and effectiveness of the identified BMPs;
- c. Status of the identified measurable goals;
- d. Results of information collected and analyzed, including monitoring data, if any, during the reporting period;

- e. A summary of the storm water activities the Permittee plans to undertake during the next reporting cycle;
 - f. Any proposed change(s) to SWMP along with a justification of why the change(s) are necessary; and
 - g. A change in the person or persons implementing and coordinating SWMP.
- 2. RWQCB may impose additional monitoring requirements, which may include a reporting component. RWQCBs may adopt such requirements on an individual or group basis.
 - 3. Recordkeeping

The Permittee must keep records required by this General Permit for at least five years or the duration of the General Permit if continued. The RWQCB Executive Officer may specify a longer time for record retention. The Permittee must submit the records to the RWQCB Executive Officer upon request. The Permittee must make the records, including the permit and SWMP, available to the public during regular business hours.

G. RWQCB AUTHORITIES

RWQCBs will review and approve SWMPs prior to permit coverage being in effect and will conduct public hearings of individual permit applications upon request. Where there is no hearing, the Executive Officer may approve the SWMP. RWQCBs will also oversee compliance with this General Permit. Oversight may include, but is not limited to, reviewing reports, requiring modification to SWMPs and other submissions, imposing region-specific monitoring requirements, conducting inspections, taking enforcement actions against violators of this General Permit, and making additional designations of Permittees pursuant with the criteria described in this General Permit and Fact Sheet. The RWQCBs may also issue individual permits to regulated Small MS4s, and alternative general permits to categories of regulated Small MS4s. Upon issuance of such permits by an RWQCB, this General Permit shall no longer regulate the affected Small MS4(s).

H. STANDARD PROVISIONS

1. General Authority

Three of the minimum control measures (illicit discharge detection and elimination, and the two construction-related measures) require enforceable controls on third party activities to ensure successful implementation of the measure. Some non-traditional operators, however, may not have the necessary legal regulatory authority to adopt these enforceable controls. As in the case of

local governments that lack such authority, non-traditional MS4s are expected to utilize the authority they do possess and to seek cooperative arrangements.

2. Duty to Comply

The Permittee must comply with all of the conditions of this General Permit. Any permit noncompliance constitutes a violation of CWA and the Porter-Cologne and is grounds for enforcement action and/or removal from General Permit coverage. In the event that the Permittee is removed from coverage under the General Permit, the Permittee will be required to seek coverage under an individual or alternative general permit.

3. General Permit Actions

This General Permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a General Permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not nullify any General Permit condition.

If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under section 307(a) of CWA for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this General Permit, this General Permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition and Permittee so notified.

4. Noncompliance Reporting

Permittees who cannot certify compliance and/or who have had other instances of noncompliance shall notify the appropriate RWQCB within 30 days. Instances of noncompliance resulting in emergencies (i.e., that endanger human health or the environment) shall be reported orally to the RWQCB within 24 hours from the time the discharger becomes aware of the circumstance and in writing to the RWQCB within five days of the occurrence. The notification shall identify the noncompliance event and an initial assessment of any impact caused by the event, describe the actions necessary to achieve compliance, and include a time schedule indicating when compliance will be achieved. The time schedule and corrective measures are subject to modification by the RWQCB Executive Officer.

5. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this General Permit.

6. Duty to Mitigate

The Permittee shall take all responsible steps to minimize or prevent any discharge in violation of this General Permit that has a reasonable likelihood of adversely affecting human health or the environment.

7. Proper Operation and Maintenance

The Permittee shall at all times properly operate and maintain any facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this General Permit and with the requirements of SWMP. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance may require the operation of backup or auxiliary facilities or similar systems installed by the Permittee when necessary to achieve compliance with the conditions of this General Permit.

8. Property Rights

This General Permit does not convey any property rights of any sort or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor does it authorize any infringement of federal, State, or local laws or regulations.

9. Duty to Provide Information

The Permittee shall furnish RWQCB, SWRCB, or U.S. EPA, during normal business hours, any requested information to determine compliance with this General Permit. The Permittee shall also furnish, upon request, copies of records required to be kept by this General Permit.

10. Inspection and Entry

The Permittee shall allow RWQCB, SWRCB, U.S. EPA, or an authorized representative of RWQCB, SWRCB, or U.S. EPA, upon the presentation of credentials and other documents as may be required by law, to:

- a. Enter upon the Permittee's premises during normal business hours where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this General Permit;
- b. Access and copy, during normal business hours, any records that must be kept under the conditions of this General Permit within a reasonable time from notification;

- c. Inspect during normal business hours any municipal facilities; and
- d. Sample or monitor at reasonable times for the purpose of assuring General Permit compliance.

11. Signatory Requirements

All NOIs, SWMPs, certifications, reports, or other information prepared in accordance with this General Permit submitted to SWRCB or RWQCB shall be signed by either a principal executive officer, ranking elected official, or duly authorized representative. The principal executive officer of a Federal agency includes the chief executive officer of the agency or the senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator of U.S. EPA).

12. Certification

Any person signing documents under Section H.11 above shall make the following certification:

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, to the best of my knowledge and belief, the information submitted is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

13. Anticipated Noncompliance

The Permittee will give advance notice to the RWQCB and local storm water management agency of any planned changes in the regulated Small MS4 activity that may result in noncompliance with General Permit requirements.

14. Penalties for Falsification of Reports

Section 309(c)(4) of CWA provides that any person who knowingly makes any false material statement, representation, or certification in any record or other document submitted or required to be maintained under this General Permit, including reports of compliance or noncompliance, shall upon conviction, be punished by a fine of not more than \$10,000 or by imprisonment for not more than two years or by both.

15. Penalties for Violations of Permit Conditions

- a. Part 309 of CWA provides significant penalties for any person who violates a permit condition implementing Parts 301, 302, 306, 307, 308, 318, or 405 of CWA or any permit condition or limitation implementing any such section in a permit issued under Part 402. Any person who violates any permit condition of this General Permit is subject to a civil penalty not to exceed \$27,500 per calendar day of such violation, as well as any other appropriate sanction provided by Part 309 of CWA.
- b. Porter-Cologne also provides for administrative, civil, and criminal penalties, which in some cases are greater than those under CWA.

16. Oil and Hazardous Substance Liability

Nothing in this General Permit shall be construed to preclude the institution of any legal action against the Permittee or relieve the Permittee from any responsibilities, liabilities, or penalties to which the Permittee is or may be subject to under Part 311 of CWA.

17. Severability

The provisions of this General Permit are severable; and, if any provision of this General Permit or the application of any provision of this General Permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this General Permit shall not be affected thereby.

18. Reopener Clause

This General Permit may be modified, revoked and reissued, or terminated for cause due to promulgation of amended regulations, or otherwise in accordance with 40 CFR sections 122.62, 122.63, 122.64, and 124.5.

19. Availability

A copy of this General Permit and SWMP shall be made available for public review.

20. Transfers

This General Permit is not transferable. A Permittee must submit written notification to the appropriate RWQCB to terminate coverage of this General Permit.

21. Continuation of Expired Permit

This General Permit expires five years from the date of adoption. This General Permit continues in force and in effect until a new General Permit is issued or the SWRCB rescinds this General Permit. Only those Small MS4s authorized to discharge under the expiring General Permit are covered by the continued General Permit.

CERTIFICATION

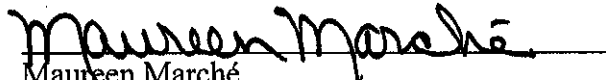
The undersigned, Clerk to the Board, does hereby certify that the foregoing is a full, true, and correct copy of an order duly and regularly adopted at a meeting of SWRCB held on April 30, 2003.

AYE: Arthur G. Baggett, Jr.
Peter S. Silva
Richard Katz
Gary M. Carlton

NO: None

ABSENT: None

ABSTAIN: None


Maureen Marché
Clerk to the Board

Operators of Municipal Separate Storm Sewer Systems that serve areas within urbanized areas are automatically designated as regulated Small MS4s. These include the following areas. (For cities, the permit area boundary is the city boundary. For counties, permit boundaries must at least be inclusive of urbanized areas. The boundaries must be proposed in the permit application and may be developed in conjunction with the applicable regional water quality control board.)

Region 1

City of Cotati
Graton, County of Sonoma
City of Healdsburg
City of Rohnert Park
City of Sebastapool
Town of Windsor
County of Sonoma

Region 2

City of Belvedere
City of Benicia
Black Point-Green Point, County of Marin
Town of Corte Madera
Town of Fairfax
City of Larkspur
Lucas Valley-Marinwood, County of Marin
City of Mill Valley
City of Napa
City of Novato
City of Petaluma
Town of Ross
Town of San Anselmo
City of San Francisco (those areas not served by a CSO)
City of San Rafael
City of Sausalito
City of Tamalpais-Homestead Valley
City of Tiburon
Woodacre, County of Marin
County of Napa
County of Marin
County of Solano
County of Sonoma
County of San Francisco (those areas not served by a CSO)

Region 3

Aptos, County of Santa Cruz
City of Atascadero
Ben Lomand, County of Santa Cruz
Boulder Creek, County of Santa Cruz

City of Capitola
City of Carmel-by-the-Sea
Carmel Valley Village, County of Monterey
City of Carpinteria
Castroville, County of Monterey
Coralitos, County of Santa Cruz
City of Del Ray Oaks
Felton, County of Santa Cruz
City of Gilroy
Goleta, County of Santa Barbara
Isla Vista, County of Santa Barbara
Las Lomas, County of Santa Cruz
Live Oak, County of Santa Cruz
City of Lompoc
City of Marina
Montecito, County of Santa Barbara
City of Monterey
City of Morgan Hill
Nipomo, County of San Luis Obispo
Orcutt, County of Santa Barbara
City of Pacific Grove
Pajaro, County of Monterey
City of Paso Robles
Pebble Beach, County of Monterey
Prunedale, Count of Monterey
City of San Luis Obispo
City of Sand City
San Martin, County of Santa Clara
City of Santa Barbara
City of Santa Cruz
City of Santa Maria
City of Scotts Valley
City of Seaside
Soquel, County of Santa Cruz
Summerland, County of Santa Cruz
City of Watsonville
Templeton, County of San Luis Obispo
Vandenberg Village, County of Santa Barbara
County of Monterey
County of San Luis Obispo
County of Santa Barbara
County of Santa Clara
County of Santa Cruz

Region 5

City of Anderson
City of Atwater
City of Auburn

Bondelle Ranchos, County of Madera
City of Ceres
City of Chico
City of Davis
City of Delhi
El Dorado Hills, County of El Dorado
Empire, County of Stanislaus
City of Exeter
City of Farmersville
French Camp, County of San Joaquin
Goshen, County of Tulare
Granite Bay, County of Placer
City of Hughson
Kennedy, County of San Joaquin
Keyes, County of Stanislaus
City of Lathrop
Linda, County of Yuba
City of Lodi
Town of Loomis
City of Madera
Madera Acres, County of Madera
City of Manteca
City of Marysville
City of Merced
Morada, County of San Joaquin
North Auburn, County of Placer
North Woodbridge, County of San Joaquin
Olivehurst, County of Yuba
City of Porterville
City of Redding
City of Ripon
City of Riverbank
City of Rocklin
City of Roseville
Salida, County of Stanislaus
City of Shasta Lake
Strathmore, County of Tulare
South Yuba City, County of Sutter
City of Tracy
City of Turlock
City of Vacaville
City of Visalia
City of West Sacramento
City of Winton
City of Yuba City
County of Butte
County of Madera
County of Merced

County of Placer
County of San Joaquin
County of Shasta
County of Solano
County of Stanislaus
County of Sutter
County of Tulare
County of Yolo
County of Yuba

Region 6

City of Apple Valley
City of Hesperia
City of Lancaster
City of Palmdale
City of Victorville
County of San Bernadino
County of Los Angeles

Region 7

City of El Centro
Heber, County of Imperial
City of Imperial
County of Imperial

Operators of Municipal Separate Storm Sewer Systems that serve areas that are designated by the State Water Resources Control Board or Regional Water Quality Control Board in accordance with the designation criteria contained in the General Permit are regulated Small MS4s. These include, but are not limited to, the following areas. (For cities, the permit area boundary is the city boundary. For counties, permit boundaries must at least be inclusive of urbanized areas. The boundaries must be proposed in the permit application and may be developed in conjunction with the applicable regional water quality control board.)

Region 1

Area	Justification	Details
City of Arcata	<ul style="list-style-type: none"> • Discharge Into A Sensitive Water Body • High Population Density 	<ul style="list-style-type: none"> • Mad River which is on the 303(d) list for sediment/turbidity • Urban cluster
City of Eureka	<ul style="list-style-type: none"> • Discharge Into A Sensitive Water Body • High Population Density 	<ul style="list-style-type: none"> • Elk River and Freshwater Creek which are listed on the 303(d) list for sedimentation/siltation • Urban cluster
City of Fort Bragg	<ul style="list-style-type: none"> • Discharge Into A Sensitive Water Body • High Population Density 	<ul style="list-style-type: none"> • Noyo River which is listed for sedimentation/siltation • Urban cluster
City of Fortuna	<ul style="list-style-type: none"> • Discharge Into A Sensitive Water Body • High Population Density 	<ul style="list-style-type: none"> • Eel River which is on the 303(d) list for sedimentation/siltation and temperature • Urban cluster
McKinleyville, County of Humboldt	<ul style="list-style-type: none"> • Discharge Into A Sensitive Water Body • High Population Density 	<ul style="list-style-type: none"> • Mad River which is on the 303(d) list for sedimentation/siltation and turbidity • Urban cluster
City of Ukiah	<ul style="list-style-type: none"> • Discharge Into A Sensitive Water Body • High Population Density 	<ul style="list-style-type: none"> • Russian River which is listed for sedimentation/siltation • Urban cluster
County of Mendocino	<ul style="list-style-type: none"> • Discharge Into A Sensitive Water Body • High Population Density 	<ul style="list-style-type: none"> • Russian River which is listed for sedimentation/siltation • Urban cluster •

Region 2

Area	Justification	Details
City of Calistoga	<ul style="list-style-type: none"> • Discharge Into A Sensitive Water Body • High Population Density 	<ul style="list-style-type: none"> • Napa River, which is on the 303(d) list for sediment, nutrients, and pathogens • Urban cluster
City of St. Helena	<ul style="list-style-type: none"> • Discharge Into A Sensitive Water Body • High Population Density 	<ul style="list-style-type: none"> • Napa River, which is on the 303(d) list for sediment, nutrients, and pathogens • Urban cluster
City of Sonoma	<ul style="list-style-type: none"> • Discharge Into A Sensitive Water Body • High Population Density 	<ul style="list-style-type: none"> • Sonoma Creek, which is on the 303(d) list for sediment, nutrients, and pathogens • Urban cluster
Town of Yountville	<ul style="list-style-type: none"> • Discharge Into A Sensitive Water Body • High Population Density 	<ul style="list-style-type: none"> • Napa River, which is on the 303(d) list for sediment, nutrients, and pathogens • Urban cluster

Region 3

Area	Justification	Details
City of Arroyo Grande	<ul style="list-style-type: none"> • High Population Density 	<ul style="list-style-type: none"> • Tourism, Urban cluster
Baywood-Los Osos, County of San Luis Obispo	<ul style="list-style-type: none"> • Discharge Into A Sensitive Water Body • High Population Density 	<ul style="list-style-type: none"> • Morro Bay which is on the 303(d) list for sediments • Urban cluster
City of Buellton	<ul style="list-style-type: none"> • Discharge Into A Sensitive Water Body • High Population Density 	<ul style="list-style-type: none"> • Santa Ynez River, which is on the 303(d) list for nutrients and sediment • Urban cluster
Cambria, County of San Luis Obispo	<ul style="list-style-type: none"> • Discharge Into A Sensitive Water Body • High Population Density 	<ul style="list-style-type: none"> • Marine Sanctuary • Urban cluster
City of Greenfield	<ul style="list-style-type: none"> • Discharge Into A Sensitive Water Body • High Growth Rate • High Population Density 	<ul style="list-style-type: none"> • Salinas River, which is listed for sediment and salinity/TDS/chlorides • 68.6% over 10 years • Urban cluster
City of Grover Beach	<ul style="list-style-type: none"> • High Population Density 	<ul style="list-style-type: none"> • Tourism, Urban cluster
City of Hollister	<ul style="list-style-type: none"> • Discharge Into A Sensitive Water Body • High Growth Rate • High Population Density 	<ul style="list-style-type: none"> • San Benito River, which is listed for sediment • 79.1% over 10 years • Urban cluster
City of King City	<ul style="list-style-type: none"> • Discharge Into A Sensitive 	<ul style="list-style-type: none"> • Salinas River, which is listed

	<p>Water Body</p> <ul style="list-style-type: none"> • High Growth Rate • High Population Density 	<p>for sediment and salinity/TDS/chlorides</p> <ul style="list-style-type: none"> • 45.3% over 10 years • Urban cluster
	<ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> •
Los Olivos, County of Santa Barbara	<ul style="list-style-type: none"> • Discharge Into A Sensitive Water Body • High Population Density 	<ul style="list-style-type: none"> • Santa Ynez River, which is on the 303(d) list for nutrients and sediment • Urban Cluster
City of Morro Bay	<ul style="list-style-type: none"> • Discharge Into A Sensitive Water Body • High Population Density 	<ul style="list-style-type: none"> • Morro Bay, which is on the 303(d) list for sediments • Urban cluster
Oceano, County of San Luis Obispo	<ul style="list-style-type: none"> • High Population Density 	<ul style="list-style-type: none"> • Tourism, Urban cluster
City of Pismo Beach	<ul style="list-style-type: none"> • High Population Density 	<ul style="list-style-type: none"> • Tourism, Urban cluster
Santa Ynez, County of Santa Barbara	<ul style="list-style-type: none"> • Discharge Into A Sensitive Water Body • High Population Density 	<ul style="list-style-type: none"> • Santa Ynez River, which is on the 303(d) list for nutrients and sediment • Urban cluster
Shell Beach, County of San Luis Obispo	<ul style="list-style-type: none"> • High Population Density 	<ul style="list-style-type: none"> • Tourism
City of Soledad	<ul style="list-style-type: none"> • Discharge Into A Sensitive Water Body • High Growth Rate • High Population Density 	<ul style="list-style-type: none"> • Salinas River, which is listed for sediment and salinity/TDS/chlorides • 57.6% over 10 years • Urban cluster
City of Solvang	<ul style="list-style-type: none"> • Discharge Into A Sensitive Water Body • High Population Density 	<ul style="list-style-type: none"> • Santa Ynez River, which is on the 303(d) list for nutrients and sediment • Urban cluster • Tourism

Region 5

Area	Justification	Details
City of Clearlake	<ul style="list-style-type: none"> • Discharge Into A Sensitive Water Body • High Population Density 	<ul style="list-style-type: none"> • Clear Lake which is on the 303(d) list for mercury and nutrients • Urbanized cluster
City of Dixon	<ul style="list-style-type: none"> • High Growth Or Growth Potential • High Population Density 	<ul style="list-style-type: none"> • 54.8% over 10 years • Urban cluster
City of Grass Valley	<ul style="list-style-type: none"> • Discharge To Sensitive Water Bodies • High Growth Potential 	<ul style="list-style-type: none"> • Receiving waters support threatened and endangered species

Attachment 2
To WQO 2003-0005-DWQ

	<ul style="list-style-type: none"> • High Population Density 	<ul style="list-style-type: none"> • Urban cluster
City of Hanford	<ul style="list-style-type: none"> • Urbanized Area in corrected census data 	<ul style="list-style-type: none"> • Urbanized Area in corrected census data
City of Kingsburg	<ul style="list-style-type: none"> • Discharge To Sensitive Water Bodies • High Population Density 	<ul style="list-style-type: none"> • Kings River, used for recreation and agriculture supply • Urban cluster
City of Lakeport	<ul style="list-style-type: none"> • Discharge To Sensitive Water Bodies • High Population Density 	<ul style="list-style-type: none"> • Clear Lake which is on the 303(d) list for mercury and nutrients • Urban cluster
City of Lemoore	<ul style="list-style-type: none"> • Urbanized Area in corrected census data 	<ul style="list-style-type: none"> • Urbanized Area in corrected census data
City of Lincoln	<ul style="list-style-type: none"> • Discharge To Sensitive Water Bodies • High Growth And Growth Potential • High Population Density 	<ul style="list-style-type: none"> • Receiving waters support threatened and endangered species • 54.6% over 10 years and continuing at 15% per year • Urban cluster
City of Los Baños	<ul style="list-style-type: none"> • Discharge Into A Sensitive Water Body • High Growth • High Population Density 	<ul style="list-style-type: none"> • Los Baños Canal which is used for agriculture supply and flows into a water of the U.S. • 78.2% growth over 10 years • Urban cluster
City of Oakdale	<ul style="list-style-type: none"> • Discharge To Sensitive Water Body • High Growth • High Population Density 	<ul style="list-style-type: none"> • Stanislaus River which is on the 303(d) list for pesticides and unknown toxicity • 29.6% over 10 years • Urban cluster
City of Patterson	<ul style="list-style-type: none"> • Discharge To Sensitive Water Body • High Growth • High Population Density 	<ul style="list-style-type: none"> • San Joaquin river which is on the 303(d) list for pesticides, and unknown toxicity • 34.5% over 10 years • Urban cluster
City of Placerville	<ul style="list-style-type: none"> • Discharge To Sensitive Water Body • High Population Density 	<ul style="list-style-type: none"> • Receiving waters support threatened and endangered species • Urban cluster
City of Reedley	<ul style="list-style-type: none"> • Discharge Into Sensitive Water Body • High Population Density 	<ul style="list-style-type: none"> • Kings River, used for recreation and agriculture supply • Urban cluster
City of Rio Vista	<ul style="list-style-type: none"> • Discharge To Sensitive Water Body 	<ul style="list-style-type: none"> • Sacramento River, Delta, which is on the 303(d) list

Attachment 2
To WQO 2003-0005-DWQ

	<ul style="list-style-type: none"> • High Population Growth Potential • High Population Density 	<ul style="list-style-type: none"> • for pesticides, mercury, and unknown toxicity • 210% projected growth between 2000 and 2010 • Urban cluster
City of Selma	<ul style="list-style-type: none"> • Discharge To Sensitive Water Bodies • High Population Density 	<ul style="list-style-type: none"> • Discharge to Consolidated Irrigation Canal, which is tributary to Kings River, used for recreation and agriculture supply • Urban cluster
City of Tulare	<ul style="list-style-type: none"> • High Growth • Contributor Of Pollutants To Waters Of The U.S. • High Population Density 	<ul style="list-style-type: none"> • 32.3% growth over 10 years • High population, approaching “urbanized area” • Urban cluster
City of Woodland	<ul style="list-style-type: none"> • Significant Contributor Of Pollutants To Waters Of The U.S. • High Population Density • Discharge To Sensitive Water Bodies 	<ul style="list-style-type: none"> • 49,151 people at the time of the census, essentially the same threat as an urbanized area • Urban cluster • Contact recreation
County of Kings	<ul style="list-style-type: none"> • Urbanized Area in corrected census data 	<ul style="list-style-type: none"> • Urbanized Area in corrected census data
County of Lake	<ul style="list-style-type: none"> • Discharge To Sensitive Water Bodies • High Population Density 	<ul style="list-style-type: none"> • Clear Lake which is on the 303(d) list for mercury and nutrients • Urban cluster

Region 7

Area	Justification	Details
City of Brawley	<ul style="list-style-type: none"> • Discharge To Sensitive Water Body • High Population Density 	<ul style="list-style-type: none"> • New River which is on the 303(d) list for bacteria, nutrients, pesticides, and sedimentation • Urban cluster
City of Calexico	<ul style="list-style-type: none"> • Discharge To Sensitive Water Body • High Population Density 	<ul style="list-style-type: none"> • New River which is on the 303(d) list for bacteria, nutrients, pesticides, and sedimentation • Urban cluster

Non-Traditional Small MS4s

Attachment 3
WQO# 2003 – 0005 – DWQ

Non-traditional Small MS4s anticipated to be designated in the future will include the following entities.

Region	Agency	Facility	Address	City, State, ZIP
1	California Community Colleges	College of the Redwoods	7351 Tompkins Hill Road	Eureka, CA 95501-9301
1	California Community Colleges	Mendocino College	1000 Hensley Creek Rd. PO Box 3000	Ukiah, CA 95482-0300
1	California Community Colleges	Santa Rosa Junior College - Santa Rosa Campus	1501 Mendocino Avenue	Santa Rosa, CA 95401-4395
1	California State University	Humboldt State University	1 Harpst Street	Arcata, CA 95521-8299
1	California State University	Sonoma State University	1801 East Cotati Ave.	Rohnert Park, CA 94928-3609
1	District Agricultural Association	Humboldt County Fairgrounds	3750 Harris Street	Eureka, CA
1	District Agricultural Association	Mendocino County Fairgrounds	1055 North State Street	Ukiah, CA
1	School District, Alexander Valley Union Elementary		8511 Hwy. 128	Healdsburg, CA 95448-9020
1	School District, Arcata Elementary		1435 Buttermilk Lane	Arcata, CA 95521-
1	School District, Bellevue Union Elementary		3223 Primrose Ave.	Santa Rosa, CA 95407-7723
1	School District, Bennett Valley Union Elementary		2250 Mesquite Dr.	Santa Rosa, CA 95405-8310
1	School District, Cotati-Rohnert Park Unified		1601 E Cotati Ave.	Rohnert Park, CA 94928-3606
1	School District, Eureka City Unified		3200 Walford Ave.	Eureka, CA 95503-4887
1	School District, Fieldbrook Elementary		4070 Fieldbrook Road	Arcata, CA 95521-9709
1	School District, Fort Bragg Unified		312 S. Lincoln St.	Fort Bragg, CA 95437-4416
1	School District, Fortuna Union Elementary		843 L St.	Fortuna, CA 95540-1921
1	School District, Fortuna Union High		379 12th St.	Fortuna, CA 95540-2357
1	School District, Freshwater Elementary		75 Greenwood Heights Dr.	Eureka, CA 95503-9569
1	School District, Garfield Elementary		2200 Freshwater Road	Eureka, CA 95503-9562
1	School District, Gravenstein Union Elementary		3840 Twig Ave.	Sebastopol, CA 95472-5750
1	School District, Healdsburg Unified		925 University St.	Healdsburg, CA 95448-3528
1	School District, Mark West Union Elementary		305 Mark West Springs Road	Santa Rosa, CA 95404-1101
1	School District, McKinleyville Union Elementary		2275 Central Ave.	McKinleyville, CA 95519-3611
1	School District, Oak Grove Union Elementary		5285 Hall Road	Santa Rosa, CA 95401-5566
1	School District, Pacific Union Elementary		3001 Janes Road	Arcata, CA 95521-4701
1	School District, Piner-Olivet Union Elementary		3450 Coffey Lane	Santa Rosa, CA 95403-1919
1	School District, Rincon Valley Union Elementary		1000 Yulupa Ave.	Santa Rosa, CA 95405-7020
1	School District, Rohnerville Elementary		3850 Rohnerville Road	Fortuna, CA 95540-3122
1	School District, Roseland Elementary		950 Sebastopol Road	Santa Rosa, CA 95407-6829
1	School District, Santa Rosa Elementary		211 Ridgway Ave.	Santa Rosa, CA 95401-4320
1	School District, Santa Rosa High		211 Ridgway Ave.	Santa Rosa, CA 95401-4320
1	School District, Sebastopol Union Elementary		7905 Valentine Ave.	Sebastopol, CA 95472-3214
1	School District, South Bay Union Elementary		5248 Vance Ave.	Eureka, CA 95503-6351
1	School District, Twin Hills Union Elementary		700 Water Trough Road	Sebastopol, CA 95472-3917
1	School District, Ukiah Unified		925 N. State St.	Ukiah, CA 95482-3411
1	School District, West Side Union Elementary		1201 Felta Road	Healdsburg, CA 95448-9476
1	School District, West Sonoma County Union High		462 Johnson St.	Sebastopol, CA 95472-

Region	Agency	Facility	Address	City, State, ZIP
1	School District, Windsor Unified		9291 Old Redwood Hwy. #300 C	Windsor, CA 95492-9217
1	School District, Wright Elementary		4385 Price Ave.	Santa Rosa, CA 95407-6550
2	Bureau of Prisons	FCI Dublin	5701 8th Street - Camp Parks	Dublin, CA 94568
2	California Air National Guard	129th Rescue Wing	PO Box 103	Moffett Airfield, CA 94035-5006
2	California Community Colleges	Canada College	4200 Farm Hill Boulevard	Redwood City, CA 94061-1099
2	California Community Colleges	Chabot College	25555 Hesperian Blvd PO Box 5001	Hayward, CA 94545-5001
2	California Community Colleges	City College of San Francisco	50 Phelan Avenue, E200	San Francisco, CA 94112-1898
2	California Community Colleges	College of Alameda	555 Atlantic Avenue	Alameda, CA 94501-2109
2	California Community Colleges	College of San Mateo	1700 West Hillsdale Boulevard	San Mateo, CA 94402-3784
2	California Community Colleges	Contra Costa College	2600 Mission Bell Drive	San Pablo, CA 94806-3195
2	California Community Colleges	DeAnza College	21250 Stevens Creek Boulevard	Cupertino, CA 95014-5797
2	California Community Colleges	Diablo Valley College	321 Golf Club Road	Pleasant Hill, CA 94523-1544
2	California Community Colleges	Evergreen Valley College	3095 Yerba Buena Road	San Jose, CA 95135-1598
2	California Community Colleges	Foothill College	12345 El Monte Road	Los Altos Hills, CA 94022-4599
2	California Community Colleges	Laney College	900 Fallon Street	Oakland, CA 94607-4893
2	California Community Colleges	Las Positas College	3033 Collier Canyon Road	Livermore, CA 94550-7650
2	California Community Colleges	Los Medanos College	2700 East Leland Road	Pittsburg, CA 94565-5197
2	California Community Colleges	Merritt College	12500 Campus Drive	Oakland, CA 94619-3196
2	California Community Colleges	Mission College	3000 Mission College Boulevard	Santa Clara, CA 95054-1897
2	California Community Colleges	Napa Valley College	2277 Napa Vallejo Highway	Napa, CA 94558-6236
2	California Community Colleges	Ohlone College	43600 Mission Boulevard	Fremont, CA 94539-0911
2	California Community Colleges	San Jose City College	2100 Moorpark Avenue	San Jose, CA 95128-2799
2	California Community Colleges	Santa Rosa Junior College - Petaluma Campus	680 Sonoma Mountain Parkway	Petaluma, CA 94952
2	California Community Colleges	Skyline College	3300 College Drive	San Bruno, CA 94066-1662
2	California Community Colleges	Solano Community College	4000 Suisun Valley Road	Suisun City, CA 94585-3197
2	California Community Colleges	Vista College	2020 Milvia Street	Berkeley, CA 94704-1183
2	California Community Colleges	West Valley College	14000 Fruitvale Avenue	Saratoga, CA 95070-5699
2	California State University	California State University Hayward	25800 Carlos Bee Blvd	Hayward, CA 94542
2	California State University	California State University Maritime	200 Maritime Academy Drive	Vallejo, CA 94590
2	California State University	CSU Maritime Academy	200 MARITIME	Vallejo, CA
2	California State University	SF State University	1600 Holloway Avenue	San Francisco, CA 94132
2	Corrections, Dept of	San Quentin State Prison		San Quentin, CA 94964
2	Defense, Department of	Camp Parks	Bldg 790 Reserve Forces Training Area	Dublin, CA 94568-5201
2	Defense, Department of	Concord Naval Weapons Station	10 Delta St	Concord, CA 94520-5100
2	Defense, Department of	Oakland Army Base		, CA
2	Defense, Department of	Onizuka Air Station	1080 Lockheed Martin Way Box 41	Sunnyvale, CA 94089-1237
2	Defense, Department of	San Bruno Naval Facility	900 Commodore Drive	San Bruno, CA 94066-5006
2	Defense, Department of	Santa Clara Naval Reserve Center	500 Shenandoah Plaza, P.O. Box 128, M	Mountain View, CA 94035-0128
2	Defense, Department of	Travis Air Force Base	60 Support Group	Travis AFB, CA 94535-5049
2	Developmental Services, Dept of	Agnews Developmental Center East & West	3500 Zanker Road	San Jose, CA
2	District Agricultural Association	Napa County Fairgrounds	575 Third Street	Napa, CA
2	District Agricultural Association	Sonoma-Marin Fair	Fairgrounds Dr	Petaluma, CA

Region	Agency	Facility	Address	City, State, ZIP
2	Education, Dept of	Calif. School for the Blind	500 Walnut Ave.	Fremont, CA 94536-4365
2	Education, Dept of	Calif. School for the Deaf	39350 Gallaudet Dr.	Fremont, CA 94538-2308
2	Energy, Dept of	Sandia National Labs., CA Pgms.	P.O. Box 969, MS-9221	Livermore, CA 94550
2	Health Services, Dept of	Fairfield Animal Facility	6250 Lambie Road	Suisun City, CA
2	Menatl Health, Dept of	Napa State Hospital	2100 Napa-Vallejo Hwy	Napa, CA
2	NASA	Moffett Federal Air Field	NASA - AMES, MS 218-1	Moffett Airfield, CA 94035
2	Port of Oakland		530 Water Street	Oakland, CA 94607
2	Presido Trust		34 Graham Street PO Box 29052	San Francisco, CA 94129-0052
2	Rehabilitation, Dept of	Center for the Blind	400 Adams Street	Albany, CA
2	San Mateo Union High School District		650 N. Delaware St.	San Mateo, CA 94401-1795
2	School District, Acalanes Union High		1212 Pleasant Hill Road	Lafayette, CA 94549-2623
2	School District, Alameda City Unified		2200 Central Ave.	Alameda, CA 94501-4450
2	School District, Albany City Unified		904 Talbot Ave.	Albany, CA 94706-2020
2	School District, Alum Rock Union Elementary		2930 Gay Ave.	San Jose, CA 95127-2322
2	School District, Bayshore Elementary		1 Martin St.	Daly City, CA 94014-1603
2	School District, Belmont-Redwood Shores Elementary		2960 Hallmark Dr.	Belmont, CA 94002-2943
2	School District, Benicia Unified		350 East K St.	Benicia, CA 94510-3437
2	School District, Berkeley Unified		2134 Martin Luther King, Jr. W	Berkeley, CA 94704-1109
2	School District, Berryessa Union Elementary		1376 Piedmont Road	San Jose, CA 95132-2427
2	School District, Brisbane Elementary		1 Solano St.	Brisbane, CA 94005-1342
2	School District, Burlingame Elementary		1825 Trousdale Dr	Burlingame, CA 94010-4509
2	School District, Cabrillo Unified		498 Kelly Ave.	Half Moon Bay, CA 94019-1636
2	School District, Calistoga Joint Unified		1520 Lake St.	Calistoga, CA 94515-1605
2	School District, Cambrian Elementary		4115 Jacksol Dr.	San Jose, CA 95124-3312
2	School District, Campbell Union Elementary		155 N. Third St.	Campbell, CA 95008-2044
2	School District, Campbell Union High		3235 Union Ave.	San Jose, CA 95124-2009
2	School District, Canyon Elementary		187 Pinehurst Road	Canyon, CA 94516-0187
2	School District, Castro Valley Unified		4430 Alma Ave.	Castro Valley, CA 94546-0146
2	School District, Cinnabar Elementary		286 Skillman Lane	Petaluma, CA 94975-0399
2	School District, Cupertino Union Elementary		10301 Vista Dr.	Cupertino, CA 95014-2040
2	School District, Dixie Elementary		380 Nova Albion Way	San Rafael, CA 94903-3523
2	School District, Dublin Unified		7471 Larkdale Ave.	Dublin, CA 94568-1500
2	School District, Dunham Elementary		4111 Roblar Road	Petaluma, CA 94952-9202
2	School District, East Side Union High		830 N. Capitol Ave.	San Jose, CA 95133-1316
2	School District, Emery Unified		4727 San Pablo Ave.	Emeryville, CA 94608-3035
2	School District, Evergreen Elementary		3188 Quimby Road	San Jose, CA 95148-3022
2	School District, Fairfield-Suisun Unified		1975 Pennsylvania Ave.	Fairfield, CA 94533-
2	School District, Franklin-McKinley Elementary		645 Wool Creek Dr.	San Jose, CA 95112-2617
2	School District, Fremont Unified		4210 Technology Dr.	Fremont, CA 94537-5008
2	School District, Fremont Union High		589 W. Fremont Ave.	Sunnyvale, CA 94087-
2	School District, Hayward Unified		24411 Amador St.	Hayward, CA 94540-0001
2	School District, Hillsborough City Elementary		300 El Cerrito Ave.	Hillsborough, CA 94010-6818

Region	Agency	Facility	Address	City, State, ZIP
2	School District, Jefferson Elementary		101 Lincoln Ave.	Daly City, CA 94015-3934
2	School District, Jefferson Union High		699 Serramonte Blvd., Suite 100	Daly City, CA 94015-4132
2	School District, John Swett Unified		341 #B (Selby)	Crockett, CA 94525-
2	School District, La Honda-Pescadero Unified		620 North St	Pescadero, CA 94060-0189
2	School District, Lafayette Elementary		3477 School St.	Lafayette, CA 94549-1029
2	School District, Laguna Joint Elementary		3286 Chileno Valley Road	Petaluma, CA 94952-9428
2	School District, Laguna Salada Union Elementary		375 Reina del Mar	Pacifica, CA 94044-3052
2	School District, Lakeside Joint Elementary		19621 Black Road	Los Gatos, CA 95030-9522
2	School District, Larkspur Elementary		230 Doherty Dr.	Larkspur, CA 94939-
2	School District, Las Lomas Elementary		1011 Altschul Ave.	Menlo Park, CA 94025-6706
2	School District, Liberty Elementary		170 Liberty Road	Petaluma, CA 94952-1074
2	School District, Lincoln Elementary		1300 Hicks Valley Road	Petaluma, CA 94952-9407
2	School District, Livermore Valley Joint Unified		685 E. Jack London Blvd.	Livermore, CA 94550-1800
2	School District, Loma Prieta Joint Union Elementary		23800 Summit Road	Los Gatos, CA 95033-4054
2	School District, Los Altos Elementary		201 Covington Road	Los Altos, CA 94024-4030
2	School District, Los Gatos Union Elementary		15766 Poppy Lane	Los Gatos, CA 95030-3228
2	School District, Los Gatos-Saratoga Joint Union High		17421 Farley Road West	Los Gatos, CA 95030-3308
2	School District, Luther Burbank Elementary		4 Wabash Ave.	San Jose, CA 95128-1931
2	School District, Martinez Unified		921 Susana St.	Martinez, CA 94553-1848
2	School District, Menlo Park City Elementary		181 Encinal Ave.	Atherton, CA 94027-3102
2	School District, Mill Valley Elementary		411 Sycamore Ave.	Mill Valley, CA 94941-2231
2	School District, Millbrae Elementary		555 Richmond Dr.	Millbrae, CA 94030-1600
2	School District, Milpitas Unified		1331 E. Calaveras Blvd.	Milpitas, CA 95035-5707
2	School District, Montebello Elementary		15101 Montebello Road	Cupertino, CA 95014-5431
2	School District, Moraga Elementary		1540 School St.	Moraga, CA 94556-0158
2	School District, Moreland Elementary		4710 Campbell Ave.	San Jose, CA 95130-1709
2	School District, Mountain View-Los Altos Union High		1299 Bryant Ave.	Mountain View, CA 94040-4527
2	School District, Mountain View-Whisman Elementary		750 A San Pierre Way	Mountain View, CA 94043-
2	School District, Mt. Diablo Unified		1936 Carlotta Dr.	Concord, CA 94519-1358
2	School District, Mt. Pleasant Elementary		3434 Marten Ave.	San Jose, CA 95148-
2	School District, Napa Valley Unified		2425 Jefferson St.	Napa, CA 94558-4931
2	School District, New Haven Unified		34200 Alvarado-Niles Road	Union City, CA 94587-4402
2	School District, Newark Unified		5715 Musick Ave.	Newark, CA 94560-0385
2	School District, Novato Unified		1015 Seventh St.	Novato, CA 94945-2205
2	School District, Oak Grove Elementary		6578 Santa Teresa Blvd.	San Jose, CA 95119-1204
2	School District, Oakland Unified		1025 Second Ave.	Oakland, CA 94606-2212
2	School District, Old Adobe Union Elementary		845 Crinella Dr.	Petaluma, CA 94954-4450
2	School District, Orchard Elementary		921 Fox Lane	San Jose, CA 95131-
2	School District, Orinda Union Elementary		8 Altarinda Road	Orinda, CA 94563-2603
2	School District, Palo Alto Unified		25 Churchill Ave.	Palo Alto, CA 94306-1005
2	School District, Petaluma City Elementary		200 Douglas St.	Petaluma, CA 94952-2575
2	School District, Petaluma Joint Union High		200 Douglas St.	Petaluma, CA 94952-2575

Region	Agency	Facility	Address	City, State, ZIP
2	School District, Piedmont City Unified		760 Magnolia Ave.	Piedmont, CA 94611-4047
2	School District, Pittsburg Unified		2000 Railroad Ave.	Pittsburg, CA 94565-3830
2	School District, Pleasanton Unified		4665 Bernal Ave.	Pleasanton, CA 94566-7449
2	School District, Portola Valley Elementary		4575 Alpine Road	Portola Valley, CA 94028-8040
2	School District, Ravenswood City Elementary		2160 Euclid Ave.	East Palo Alto, CA 94303-1703
2	School District, Redwood City Elementary		750 Bradford St.	Redwood City, CA 94063-1727
2	School District, Reed Union Elementary		105A Avenida Miraflores	Tiburon, CA 94920-
2	School District, Ross Elementary		Lagunitas and Allen Aves.	Ross, CA 94957-1058
2	School District, Ross Valley Elementary		46 Green Valley Court	San Anselmo, CA 94960-1112
2	School District, San Bruno Park Elementary		500 Acacia Ave.	San Bruno, CA 94066-4298
2	School District, San Carlos Elementary		826 Chestnut St.	San Carlos, CA 94070-3802
2	School District, San Francisco Unified		135 Van Ness Ave.	San Francisco, CA 94102-5207
2	School District, San Jose Unified		855 Lenzen Ave.	San Jose, CA 95126-2736
2	School District, San Leandro Unified		14735 Juniper St.	San Leandro, CA 94579-1222
2	School District, San Lorenzo Unified		15510 Usher St.	San Lorenzo, CA 94580-
2	School District, San Mateo-Foster City Elementary		300 28th Ave.	San Mateo, CA 94402-0058
2	School District, San Rafael City Elementary		310 Nova Albion Way	San Rafael, CA 94903-
2	School District, San Rafael City High		310 Nova Albione	San Rafael, CA 94903-3500
2	School District, San Ramon Valley Unified		699 Old Orchard Dr.	Danville, CA 94526-4331
2	School District, Santa Clara Unified		1889 Lawrence Road	Santa Clara, CA 95052-0397
2	School District, Saratoga Union Elementary		20460 Forrest Hills Dr.	Saratoga, CA 95070-6020
2	School District, Sausalito Elementary		630 Nevada St.	Sausalito, CA 94965-1654
2	School District, Sequoia Union High		480 James Ave.	Redwood City, CA 94062-1041
2	School District, Sonoma Valley Unified		721 W. Napa St.	Sonoma, CA 95476-6412
2	School District, St. Helena Unified		465 Main St.	St. Helena, CA 94574-2159
2	School District, Sunnyvale Elementary		819 W. Iowa Ave.	Sunnyvale, CA 94088-3217
2	School District, Sunol Glen Unified		Main & Bond Sts.	Sunol, CA 94586-0569
2	School District, Tamalpais Union High		395 Doherty Dr.	Larkspur, CA 94977-0605
2	School District, Two Rock Union Elementary		5001 Spring Hill Road	Petaluma, CA 94952-9639
2	School District, Union Elementary		5175 Union Ave.	San Jose, CA 95124-5434
2	School District, Union Joint Elementary		5300 Red Hill Road	Petaluma, CA 94952-
2	School District, Vallejo City Unified		211 Valle Vista	Vallejo, CA 94590-3256
2	School District, Walnut Creek Elementary		960 Ygnacio Valley Road	Walnut Creek, CA 94596-3892
2	School District, Waugh Elementary		880 Maria Dr.	Petaluma, CA 94954-6837
2	School District, West Contra Costa Unified		1108 Bissell Ave.	Richmond, CA 94801-3135
2	School District, Wilmar Union Elementary		3775 Bodega Ave.	Petaluma, CA 94952-8023
2	School District, Woodside Elementary		3195 Woodside Road	Woodside, CA 94062-2552
2	Transportation, Department of	Alameda Coast Guard Integrated Support Command	MLCP "VS" Bldg 50-8, Coast Guard Isla	Alameda, CA 94501
2	Transportation, Department of	Petaluma Coast Guard Training Center	599 Tomales Rd	Petaluma, CA 94952-5000
2	University of California	Berkeley Laboratory	1 Cyclotron Road MS-65	Berkeley, CA 94720
2	University of California	Lawrence Livermore National Laboratory	7000 East Ave.	Livermore, CA 94550-9234
2	University of California	The University of California, San Francisco		San Francisco, CA 94143

Region	Agency	Facility	Address	City, State, ZIP
2	University of California	University of California Berkeley	Department/Office Name	Berkeley, CA 94720
2	Veteran Affairs	Martinez Center for Rehab & Extended Care	150 Muir Rd.	Martinez, CA 94553
2	Veteran Affairs	San Francisco VA Medical Center	4150 Clement Street	San Francisco, CA 94121-1598
2	Veteran Affairs	VA Northern California Health Care System	150 Muir Rd.	Martinez, CA 94553
2	Veteran Affairs	VA Palo Alto Health Care System	3801 Miranda Avenue	Palo Alto, CA 94304-290
3	Bureau of Prisons	FCI Lompoc	3600 Guard Road	Lompoc, CA 93436
3	Bureau of Prisons	USP Lompoc	3901 Klein Boulevard	Lompoc, CA 93436
3	California Army National Guard	Camp Roberts	ATTN: CACR-DIS	Camp Roberts, CA 93451-5000
3	California Army National Guard	Camp San Luis Obispo	PO Box 4360	San Luis Obispo, CA 93403-4360
3	California Community Colleges	Allan Hancock College	800 South College Drive	Santa Maria, CA 93454-6368
3	California Community Colleges	Cabrillo College	6500 Soquel Drive	Aptos, CA 95003-3119
3	California Community Colleges	Cuesta College	PO Box 8106	San Luis Obispo, CA 93403-8106
3	California Community Colleges	Gavilan College	5055 Santa Teresa Blvd.	Gilroy, CA 95020-9599
3	California Community Colleges	Hartnell College	156 Homestead Avenue	Salinas, CA 93901-1697
3	California Community Colleges	Monterey Peninsula College	980 Fremont Street	Monterey, CA 93940-4799
3	California Community Colleges	Santa Barbara City College	721 Cliff Drive	Santa Barbara, CA 93109-2394
3	California State University	California Polytechnic State University	1 Grand Ave.	San Luis Obispo, CA 93407
3	California State University	California State Monterey Bay	100 Canpus Center	Seaside, CA 93955
3	California Youth Authority	Ben Lomond Youth Conservation Camp	13575 Empire Grade	Santa Cruz, CA
3	California Youth Authority	El Paso de Robles Youth Correctional Facility	Airport Road	Paso Robles, CA
3	Corrections, Dept of	California Men's Colony	Highway 1	San Luis Obispo, CA 93409-8101
3	Corrections, Dept of	Correctional Training Facility	Highway 101 North	Soledad, CA 93960-0686
3	Corrections, Dept of	Salinas Valley State Prison	PO Box 1020	Soledad, CA 93960-1020
3	Defense, Department of	Camp San Luis Obispo	PO Box 4360	San Luis Obispo, CA 93403-4360
3	Defense, Department of	Defense Language Institute Foreign Language Center and	Bldg 4463 Giggling Rd.	Presido of Monterey, CA 93941-5777
3	Defense, Department of	Fort Hunter Liggett	AFRC-FMH-CDR	Fort Hunter Liggett, CA 93928-7000
3	Defense, Department of	Naval Postgraduate School Monterey Bay	1 University Circle	Monterey, CA 93943-5001
3	Defense, Department of	Vandenberg Air Force Base	30 CES/CEZ, 806 13th St. Suite 116	Vandenberg Air Force Base, CA 93437-5242
3	District Agricultural Association	Earl Warren Showgrounds (National Horse Show)	3400 Calle Real	Santa Barbara, CA
3	District Agricultural Association	Monterey County Fairgrounds	2004 Fairground Road	Monterey, CA
3	District Agricultural Association	San Luis Obispo County Fairgrounds	2198 Riverside Avenue	Paso Robles, CA
3	District Agricultural Association	Santa Cruz County Fairgrounds	2601 Eest Lake Avenue	Watsonville, CA
3	District Agricultural Association	Santa Maria Fairpark	937 S Thornburg Street	Santa Maria, CA
3	Mental Health, Dept of	Atascadero State Hospital	10333 El Camino Real	Atascadero, CA
3	School District, Alisal Union Elementary		1205 E. Market St.	Salinas, CA 93905-2831
3	School District, Atascadero Unified		5601 West Mall	Atascadero, CA 93422-4234
3	School District, Ballard Elementary		2425 School St.	Solvang, CA 93463-9709
3	School District, Bitterwater-Tully Union Elementary		Lonoak Rt.	King City, CA 93930-
3	School District, Blochman Union Elementary		4949 Foxen Canyon Road	Santa Maria, CA 93454-9666
3	School District, Bonny Doon Union Elementary		1492 Pine Flat Road	Santa Cruz, CA 95060-9711

Region	Agency	Facility	Address	City, State, ZIP
3	School District, Buellton Union Elementary		301 Second St.	Buellton, CA 93427-0075
3	School District, Carmel Unified		4380 Carmel Valley Road	Carmel, CA 93922-2700
3	School District, Carpinteria Unified		1400 Lindon Ave.	Carpinteria, CA 93013-1414
3	School District, Cayucos Elementary		2950 Santa Rosa Creek Road	Cambria, CA 93428-3506
3	School District, Cienega Union Elementary		11936 Cienega Road	Hollister, CA 95023-9697
3	School District, Coast Unified		2950 Santa Rosa Creek Road	Cambria, CA 93428-3506
3	School District, Cold Spring Elementary		2243 Sycamore Canyon Road	Santa Barbara, CA 93108-1909
3	School District, College Elementary		3325 Pine St.	Santa Ynez, CA 93460-0188
3	School District, Gilroy Unified		7810 Arroyo Circle	Gilroy, CA 95020-7313
3	School District, Goleta Union Elementary		401 N. Fairview Ave.	Goleta, CA 93117-1732
3	School District, Graves Elementary		15 McFadden Road	Salinas, CA 93908-
3	School District, Greenfield Union Elementary		493 El Camino Real	Greenfield, CA 93927-
3	School District, Happy Valley Elementary		3125 Branciforte Dr.	Santa Cruz, CA 95065-9775
3	School District, Hollister School District		2690 Cienega Rd	Hollister, CA 95023-
3	School District, Hope Elementary		3970 la Colina Road	Santa Barbara, CA 93110-1563
3	School District, King City Joint Union High		800 Broadway	King City, CA 93930-3326
3	School District, King City Union Elementary		800 Broadway	King City, CA 93930-2984
3	School District, Lagunita Elementary		975 San Juan Grade Road	Salinas, CA 93907-8438
3	School District, Live Oak Elementary		984-1 Bostwick Lane	Santa Cruz, CA 95062-1756
3	School District, Live Oak Unified		2201 Pennington Road	Live Oak, CA 95953-2469
3	School District, Lompoc Unified		1301 North A St.	Lompoc, CA 93438-8000
3	School District, Los Olivos Elementary		2540 Alamo Pintado Ave.	Los Olivos, CA 93441-0208
3	School District, Lucia Mar Unified		602 Orchard St.	Arroyo Grande, CA 93420-4000
3	School District, Mission Union Elementary		36825 Foothill Road	Soledad, CA 93960-9656
3	School District, Montecito Union Elementary		385 San Ysidro Road	Santa Barbara, CA 93108-2131
3	School District, Monterey Peninsula Unified		700 Pacific St.	Monterey, CA 93942-1031
3	School District, Morgan Hill Unified		15600 Concord Circle	Morgan Hill, CA 95037-7110
3	School District, Mountain Elementary		3042 Old San Jose Road	Soquel, CA 95073-9752
3	School District, North County Joint Union Elementary		500 Spring Grove Road	Hollister, CA 95023-9366
3	School District, Nuestro Elementary		3934 Broadway Road	Live Oak, CA 95953-9401
3	School District, Orcutt Union Elementary		Soares & Dyer Sts.	Orcutt, CA 93457-2310
3	School District, Pacific Grove Unified		555 Sinex Ave.	Pacific Grove, CA 93950-4320
3	School District, Pajaro Valley Joint Unified		294 Greenvalley Rd	Watsonville, CA 95076-
3	School District, Paso Robles Joint Unified		800 Niblick Road	Paso Robles, CA 93447-7010
3	School District, Salinas City Elementary		431 W. Alisal St.	Salinas, CA 93901-1624
3	School District, Salinas Union High		431 W. Alisal St.	Salinas, CA 93901-1624
3	School District, San Benito High		1220 Monterey St.	Hollister, CA 95023-4708
3	School District, San Lorenzo Valley Unified		6134 Hwy. 9	Felton, CA 95018-9704
3	School District, San Luis Coastal Unified		1500 Lizzie St.	San Luis Obispo, CA 93401-3099
3	School District, Santa Barbara Elementary		720 Santa Barbara St.	Santa Barbara, CA 93101-
3	School District, Santa Barbara High		720 Santa Barbara St.	Santa Barbara, CA 93101-
3	School District, Santa Cruz City Elementary		2931 Mission St.	Santa Cruz, CA 95060-

Region	Agency	Facility	Address	City, State, ZIP
3	School District, Santa Cruz City High		2931 Mission St.	Santa Cruz, CA 95060-5709
3	School District, Santa Maria Joint Union High		2560 Skyway Dr.	Santa Maria, CA 93455-
3	School District, Santa Maria-Bonita Elementary		708 S. Miller St.	Santa Maria, CA 93454-6230
3	School District, Santa Rita Union Elementary		57 Russell Road	Salinas, CA 93906-4325
3	School District, Santa Ynez Valley Union High		2975 E. Hwy. 246	Santa Ynez, CA 93460-
3	School District, Scotts Valley Unified		4444 Scotts Valley Dr., Ste 5B	Scotts Valley, CA 95066-4529
3	School District, Soledad Unified		335 Market St.	Soledad, CA 93960-
3	School District, Solvang Elementary		565 Atterdag Road	Solvang, CA 93463-2690
3	School District, Soquel Union Elementary		620 Monterey Ave.	Capitola, CA 95010-3618
3	School District, Southside Elementary		4991 Southside Road	Hollister, CA 95023-9637
3	School District, Templeton Unified		960 Old County Road	Templeton, CA 93465-9419
3	School District, Washington Union Elementary		43 San Benancio Canyon Rd	Salinas, CA 93908-
3	University of California	UC Santa Barbara		Santa Barbara, CA 93106
3	University of California	University of California, Santa Cruz	1156 High Street	Santa Cruz, CA 95064
4	Bureau of Prisons	CCM Long Beach	535 N. Alameda Street	Los Angeles, CA 90012
4	Bureau of Prisons	FCI Terminal Island	1299 Seaside Avenue	Terminal Island, CA 90731
4	California Air National Guard	Channel Island Air National Guard Base	100 Mulcahey Dr	Port Hueneme, CA 93041-4002
4	California Community Colleges	Cerritos College	11110 Alondra Boulevard	Norwalk, CA 90650-6269
4	California Community Colleges	Citrus College	1000 West Foothill Boulevard	Glendora, CA 91741-1899
4	California Community Colleges	College Of The Canyons	26455 N. Rockwell Canyon Road	Santa Clarita, CA 91355-1899
4	California Community Colleges	Compton College	1111 East Artesia Boulevard	Compton, CA 90221-5393
4	California Community Colleges	East Los Angeles College	1301 Avenida Cesar Chavez	Monterey Park, CA 91754-6099
4	California Community Colleges	El Camino College	16007 Crenshaw Boulevard	Torrance, CA 90506-0002
4	California Community Colleges	Glendale Community College	1500 North Verdugo Road	Glendale, CA 91208-2894
4	California Community Colleges	Long Beach City College	4901 East Carson Street	Long Beach, CA 90808-1706
4	California Community Colleges	Los Angeles City College	855 North Vermont Avenue	Los Angeles, CA 90029-3590
4	California Community Colleges	Los Angeles Harbor College	1111 Figueroa Place	Wilmington, CA 90744-2397
4	California Community Colleges	Los Angeles Mission College	13356 Eldridge Avenue	Sylmar, CA 91342-3200
4	California Community Colleges	Los Angeles Pierce College	6201 Winnetka Avenue	Woodland Hills, CA 91371-0001
4	California Community Colleges	Los Angeles Southwest College	1600 West Imperial Highway	Los Angeles, CA 90047-4899
4	California Community Colleges	Los Angeles Trade-Tech College	400 West Washington Boulevard	Los Angeles, CA 90015-4108
4	California Community Colleges	Los Angeles Valley College	5800 Fulton Avenue	Van Nuys, CA 91401-4096
4	California Community Colleges	Moorpark College	7075 Campus Road	Moorpark, CA 93201-1695
4	California Community Colleges	Mt. San Antonio College	1100 North Grand Avenue	Walnut, CA 91789-1399
4	California Community Colleges	Oxnard College	4000 South Rose Avenue	Oxnard, CA 93033-6699
4	California Community Colleges	Pasadena City College	1570 East Colorado Boulevard	Pasadena, CA 91106-2003
4	California Community Colleges	Rio Hondo College	3600 Workman Mill Road	Whittier, CA 90601-1699
4	California Community Colleges	Santa Monica College	1900 Pico Boulevard	Santa Monica, CA 90405-1628
4	California Community Colleges	Ventura College	4667 Telegraph Road	Ventura, CA 93003-3899
4	California Community Colleges	West Los Angeles College	4800 Freshman Drive	Culver City, CA 90230-3500
4	California State University	California State Polytechnic University, Pomona	3801 West Temple Avenue	Pomona, CA 91768
4	California State University	California State University Channel Islands	One University Drive	Camarillo, CA 93012

Region	Agency	Facility	Address	City, State, ZIP
4	California State University	California State University Dominguez Hills	1000 E. Victoria Street	Carson, CA 90747
4	California State University	California State University Long Beach	1250 Bellflower Blvd.	Long Beach, CA 90840
4	California State University	California State University Los Angeles	5151 State University Drive	Los Angeles, CA 90032-4226
4	California State University	California State University Northridge	18111 Nordhoff Street	Northridge, CA 91330
4	California Youth Authority	Fred C. Nelles Youth Correcitonal Facility	11850 E Whittier	Whittier, CA
4	California Youth Authority	Southern Youth Correctional Reception Center and Clinic	13200 S Bloomfield Ave	Norwalk, CA
4	California Youth Authority	Ventura Youth Correctional Facility	3100 Wright Rd	Camarillo, CA
4	Defense, Department of	Corona Naval Station	P.O. Box 5000	Corona, CA 92878-5000
4	Defense, Department of	Los Angeles Air Force Base	61 ABG/CEZV, 2420 Vela Way Suite 14	El Segundo, CA 90245
4	Defense, Department of	Naval Auxiliary Landing Field, San Clemente Island	33000 Nixie Way Bldg 50, Suite 326	San Diego, CA 92147-5110
4	Defense, Department of	Naval Base Ventura County		, CA
4	Defense, Department of	Port Hueneme Naval Facility	4363 Missile Way	Port Hueneme, CA 93043-4307
4	Defense, Department of	San Nicholas Island Naval Facility	NAWS-890000E	Point Mugu, CA 93042-5001
4	Devlopmental Services, Dept of	Lanterman Developmental Center	3530 West Pomona Blvd	Pomona, CA
4	District Agricultural Association	Ventura County Fairgrounds	10 West Harbor Blvd	Ventura, CA
4	Mental Health, Dept of	Metropolitan State Hospital	11401 Bloomfield Avenue	Norwalk, CA
4	School District, ABC Unified		16700 Norwalk Blvd.	Cerritos, CA 90703-1838
4	School District, Acton-Agua Dulce Unified		32248 N. Crown Valley Road	Acton, CA 93510-0068
4	School District, Alhambra City Elementary		15 W. Alhambra Road	Alhambra, CA 91802-2110
4	School District, Alhambra City High		15 W. Alhambra Road	Alhambra, CA 91802-2110
4	School District, Arcadia Unified		234 Campus Dr.	Arcadia, CA 91007-6902
4	School District, Azusa Unified		546 S. Citrus Ave.	Azusa, CA 91702-0500
4	School District, Baldwin Park Unified		3699 N. Holly Ave.	Baldwin Park, CA 91706-5397
4	School District, Bassett Unified		904 N. Willow Ave.	La Puente, CA 91746-1615
4	School District, Bellflower Unified		16703 S. Clark Ave.	Bellflower, CA 90706-5203
4	School District, Beverly Hills Unified		255 S. Lasky Dr.	Beverly Hills, CA 90212-3644
4	School District, Bonita Unified		115 W. Allen Ave.	San Dimas, CA 91773-1437
4	School District, Briggs Elementary		14438 W. Telegraph Road	Santa Paula, CA 93060-3088
4	School District, Burbank Unified		1900 W Olive Ave	Burbank, CA 91506
4	School District, Castaic Union Elementary		28131 Livingston Ave.	Valencia, CA 91355-
4	School District, Centinela Valley Union High		14901 S. Inglewood Ave.	Lawndale, CA 90260-1251
4	School District, Charter Oak Unified		20240 Cienega Ave.	Covina, CA 91723-0009
4	School District, Claremont Unified		2080 N. Mountain Ave.	Claremont, CA 91711-2643
4	School District, Compton Unified		604 S. Tamarind Ave.	Compton, CA 90220-3826
4	School District, Conejo Valley Unified		1400 E. Janss Road	Thousand Oaks, CA 91362-2133
4	School District, Covina-Valley Unified		519 E. Badillo St.	Covina, CA 91723-0269
4	School District, Culver City Unified		4034 Irving Pl.	Culver City, CA 90232-2810
4	School District, Downey Unified		11627 Brookshire Ave.	Downey, CA 90241-7017
4	School District, Duarte Unified		1620 Huntington Dr.	Duarte, CA 91010-2534
4	School District, East Whittier City Elementary		14535 E. Whittier Blvd.	Whittier, CA 90605-2130
4	School District, El Monte City Elementary		3540 N. Lexington Ave.	El Monte, CA 91731-2684
4	School District, El Monte Union High		3537 Johnson Ave.	El Monte, CA 91731-3290

Region	Agency	Facility	Address	City, State, ZIP
4		School District, El Rancho Unified	9333 Loch Lomond Dr.	Pico Rivera, CA 90660-2913
4		School District, El Segundo Unified	641 Sheldon St.	El Segundo, CA 90245-3036
4		School District, Fillmore Unified	627 Sespe Ave.	Fillmore, CA 93016-0697
4		School District, Garvey Elementary	2730 N. del Mar	Rosemead, CA 91770-3026
4		School District, Glendale Unified	223 N. Jackson St.	Glendale, CA 91206-4334
4		School District, Glendora Unified	500 N. Loraine Ave.	Glendora, CA 91741-2964
4		School District, Hacienda la Puente Unified	15959 E. Gale Ave.	City Of Industry, CA 91716-
4		School District, Hawthorne Elementary	14120 S. Hawthorne Blvd.	Hawthorne, CA 90250-
4		School District, Hermosa Beach City Elementary	1645 Valley Dr.	Hermosa Beach, CA 90254-2921
4		School District, Hueneme Elementary	205 North Ventura Road	Port Hueneme, CA 93041-3065
4		School District, Inglewood Unified	401 S. Inglewood Ave.	Inglewood, CA 90301-2501
4		School District, La Canada Unified	5039 Palm Dr.	La Canada, CA 91011-1518
4		School District, Las Virgenes Unified	4111 N. Las Virgenes Road	Calabasas, CA 91302-1929
4		School District, Lawndale Elementary	4161 W. 147th St.	Lawndale, CA 90260-1709
4		School District, Lennox Elementary	10319 S. Firmona Ave.	Lennox, CA 90304-1419
4		School District, Little Lake City Elementary	10515 S. Pioneer Blvd.	Santa Fe Springs, CA 90670-3703
4		School District, Long Beach Unified	1515 Hughes Way	Long Beach, CA 90810-1839
4		School District, Los Angeles Unified	450 N. Grand Ave.	Los Angeles, CA 90012-2100
4		School District, Los Nietos Elementary	8324 S. Westman Ave., Whittier	Whittier, CA 90606-
4		School District, Lowell Joint	11019 Valley Home Ave.	Whittier, CA 90603-3042
4		School District, Lynwood Unified	11321 Bullis Road	Lynwood, CA 90262-3600
4		School District, Manhattan Beach Unified	1230 Rosecrans Suite 400	Manhattan Beach, CA 90266-2478
4		School District, Mesa Union Elementary	3901 N. Mesa School Road	Somis, CA 93066-9734
4		School District, Monrovia Unified	325 E. Huntington Dr.	Monrovia, CA 91016-3585
4		School District, Montebello Unified	123 S. Montebello Blvd.	Montebello, CA 90640-4729
4		School District, Moorpark Unified	30 Flory Ave.	Moorpark, CA 93021-1862
4		School District, Mountain View Elementary	3320 Gilman Road	El Monte, CA 91732-3226
4		School District, Mupu Elementary	4410 N. Ojai Road	Santa Paula, CA 93060-9681
4		School District, Newhall Elementary	25375 Orchard Village, Ste. 200	Valencia, CA 91355-3055
4		School District, Norwalk-La Mirada Unified	12820 Pioneer Blvd.	Norwalk, CA 90650-2894
4		School District, Ocean View Elementary	2382 Eiting Road	Oxnard, CA 93033-6864
4		School District, Ojai Unified	414 E. Ojai Ave.	Ojai, CA 93024-0878
4		School District, Oxnard Elementary	1051 South A St.	Oxnard, CA 93030-7442
4		School District, Oxnard Union High	309 South K St.	Oxnard, CA 93030-5212
4		School District, Palos Verdes Peninsula Unified	3801 Via la Selva	Palos Verdes Estates, CA 90274-1119
4		School District, Paramount Unified	15110 California Ave.	Paramount, CA 90723-4320
4		School District, Pasadena Unified	351 S. Hudson Ave.	Pasadena, CA 91101-3507
4		School District, Pleasant Valley Elementary	600 Temple Ave.	Camarillo, CA 93010-4835
4		School District, Pomona Unified	800 S. Garey Ave	Pomona, CA 91769-2900
4		School District, Redondo Beach Unified	1401 Inglewood Ave.	Redondo Beach, CA 90278-3912
4		School District, Rio Elementary	3300 Cortez St.	Oxnard, CA 93030-1309

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4	School District, Rosemead Elementary		3907 Rosemead Blvd.	Rosemead, CA 91770-2041
4	School District, Rowland Unified		1830 Nogales St.	Rowland Heights, CA 91748-
4	School District, San Gabriel Unified		102 E. Broadway	San Gabriel, CA 91776-4500
4	School District, San Marino Unified		1665 West Dr.	San Marino, CA 91108-2594
4	School District, Santa Clara Elementary		20030 E. Telegraph Road	Santa Paula, CA 93060-9691
4	School District, Santa Monica-Malibu Unified		1651 16th St.	Santa Monica, CA 90404-3891
4	School District, Santa Paula Elementary		201 S. Steckel Dr.	Santa Paula, CA 93061-0710
4	School District, Santa Paula Union High		500 E. Santa Barbara St.	Santa Paula, CA 93060-2633
4	School District, Saugus Union Elementary		24930 Avenue Stanford	Santa Clarita, CA 91355-1272
4	School District, Simi Valley Unified		875 E. Cochran	Simi Valley, CA 93065-0999
4	School District, Somis Union Elementary		5268 North St.	Somis, CA 93066-0900
4	School District, South Pasadena Unified		1020 El Centro St.	South Pasadena, CA 91030-3118
4	School District, South Whittier Elementary		10120 Painter Ave.	Whittier, CA 90605-0037
4	School District, Sulphur Springs Union Elementary		17866 Sierra Hwy.	Canyon Country, CA 91351-1671
4	School District, Temple City Unified		9700 Las Tunas Drive	Temple City, CA 91780-
4	School District, Torrance Unified		2335 Plaza del Amo	Torrance, CA 90501-3420
4	School District, Valle Lindo Elementary		1431 N. Central Ave.	South El Monte, CA 91733-3388
4	School District, Ventura Unified		120 E. Santa Clara St.	Ventura, CA 93001-2716
4	School District, Walnut Valley Unified		880 S. Lemon Ave.	Walnut, CA 91789-2931
4	School District, West Covina Unified		1717 W. Merced Ave.	West Covina, CA 91790-3406
4	School District, Whittier City Elementary		7211 S. Whittier Ave.	Whittier, CA 90602-1123
4	School District, Whittier Union High		9401 S. Painter Ave.	Whittier, CA 90605-2798
4	School District, William S. Hart Union High		21515 Redview Dr.	Santa Clarita, CA 91350-2948
4	School District, Wiseburn Elementary		13530 Aviation Blvd.	Hawthorne, CA 90250-6462
4	Science Center, California	California Science Center	700 State Drive	Los Angeles, CA
4	University of California	UCLA	405 Hilgard Avenue Box 951361	Los Angeles, CA 90095-1361
4	Veteran Affairs	Long Beach VA Medical Center	5901 E. 7th Street	Long Beach, CA 90822
4	Veteran Affairs	VA Greater Los Angeles Healthcare System (GLA)	11301 Willshire Boulevard	Los Angeles, CA 90073
5F	Bureau of Prisons	USP Atwater	PO Box 019000	Atwater, CA 95301
5F	California Air National Guard	144th Fighter Wing	5323 East McKinley Avenue	Fresno, CA 93727-2199
5F	California Air National Guard	Fresno Air National Guard Base	5323 E McKinley Ave	Fresno, CA 93727
5F	California Community Colleges	Bakersfield College	1801 Panorama Drive	Bakersfield, CA 93305-1299
5F	California Community Colleges	College of the Sequoias	915 South Mooney Boulevard	Visalia, CA 93277-2234
5F	California Community Colleges	Fresno City College	1101 E. University Avenue	Fresno, CA 93741-0001
5F	California Community Colleges	Merced College	3600 M Street	Merced, CA 95348-2898
5F	California Community Colleges	Porterville College	100 East College Avenue	Porterville, CA 93257-5901
5F	California Community Colleges	Reedley College	995 N. Reed Avenue	Reedley, CA 93654-2099
5F	California State University	California State University Bakersfield	9001 Stockdale Highway	Bakersfield, CA 93311-1099
5F	Defense, Department of	Lemoore Naval Air Station	751 Enterprise Ave	Lemoore NAS, CA 93246
5F	Developmental Services, Dept of	Porterville Developmental Center	26501 AVE 140	Porterville, CA
5F	District Agricultural Association	Kern County Fairgrounds	1142 South P Street	Bakersfield, CA
5F	District Agricultural Association	Kings County Fairgrounds	810 S 10th Ave	Hanford, CA

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5F	District Agricultural Association	Madera County Fairgournds	1850 W Cleveland	Madera, CA
5F	District Agricultural Association	Merced County Fairgrounds	900 Martin Luther King	Merced, CA
5F	District Agricultural Association	The Big Fresno Fair	1121 Chance Ave	Fresno, CA
5F	District Agricultural Association	Tulare County Fairgrounds	215 Martin Luther King	Tulare, CA
5F	School District, Alta Vista Elementary		2293 E. Crabtree Ave.	Porterville, CA 93257-5225
5F	School District, American Union Elementary		2801 W. Adams Ave.	Fresno, CA 93706-9601
5F	School District, Atwater Elementary		1401 Broadway Ave.	Atwater, CA 95301-
5F	School District, Bakersfield City Elementary		1300 Baker St.	Bakersfield, CA 93305-4326
5F	School District, Beardsley Elementary		1001 Roberts Lane	Bakersfield, CA 93308-4503
5F	School District, Buena Vista Elementary		21660 Road 60	Tulare, CA 93274-9470
5F	School District, Burton Elementary		264 N. Westwood St.	Porterville, CA 93257-2542
5F	School District, Central Unified		4605 N. Polk Ave.	Fresno, CA 93722-5334
5F	School District, Central Union Elementary		15783 18th Ave.	Lemoore, CA 93245-9742
5F	School District, Citrus South Tule Elementary		31374 Success Valley Dr.	Porterville, CA 93257-9638
5F	School District, Clay Joint Elementary		12449 S. Smith Ave.	Kingsburg, CA 93631-9717
5F	School District, Clovis Unified		1450 Herndon Ave.	Clovis, CA 93611-0567
5F	School District, Delhi Unified		9715 Hinton Ave.	Delhi, CA 95315-0338
5F	School District, Delta View Joint Union Elementary		1201 Lacey Blvd.	Hanford, CA 93230-9306
5F	School District, Edison Elementary		9600 Eucalyptus Dr.	Bakersfield, CA 93306-6781
5F	School District, Exeter Union Elementary		134 South E St.	Exeter, CA 93221-
5F	School District, Exeter Union High		134 South E St.	Exeter, CA 93221-
5F	School District, Fairfax Elementary		1500 S. Fairfax Road	Bakersfield, CA 93307-3151
5F	School District, Farmersville Unified		281 S. Farmersville Blvd.	Farmersville, CA 93223-1833
5F	School District, Fresno Unified		Ed. Cntr., Tulare & M Sts	Fresno, CA 93721-
5F	School District, Fruitvale Elementary		7311 Rosedale Hwy.	Bakersfield, CA 93308-5738
5F	School District, General Shafter Elementary		1316 Shafter Road	Bakersfield, CA 93313-9766
5F	School District, Golden Valley Unified		37479 Avenue 12	Madera, CA 93638-
5F	School District, Greenfield Union Elementary		1624 Fairview Road	Bakersfield, CA 93307-5512
5F	School District, Hanford Elementary		714 N. White St.	Hanford, CA 93232-
5F	School District, Hanford Joint Union High		120 E. Grangeville Road	Hanford, CA 93230-3067
5F	School District, Hope Elementary		816 W. Teapot Dome Ave.	Porterville, CA 93257-9465
5F	School District, Island Union Elementary		7799 21st Ave.	Lemoore, CA 93245-9673
5F	School District, Kern Union High		5801 Sundale Ave	Bakersfield, CA 93309-2924
5F	School District, Kings Canyon Joint Unified		675 W. Manning Ave.	Reedley, CA 93654-2427
5F	School District, Kings River Union Elementary		3961 Ave. 400	Kingsburg, CA 93631-9660
5F	School District, Kings River-Hardwick Union Elementary		10300 Excelsior Ave.	Hanford, CA 93230-9108
5F	School District, Kingsburg Joint Union Elementary		1310 Stroud Ave.	Kingsburg, CA 93631-1000
5F	School District, Kingsburg Joint Union High		1900 18th Ave.	Kingsburg, CA 93631-1629
5F	School District, Kit Carson Union Elementary		9895 Seventh Ave.	Hanford, CA 93230-8802
5F	School District, Lakeside Union Elementary		9100 Jersey Ave.	Hanford, CA 93230-9560
5F	School District, Lakeside Union School		14535 Old River Rd.	Bakersfield, CA 93311-9756
5F	School District, Lemoore Union Elementary		100 Vine St.	Lemoore, CA 93245-3418

Region	Agency	Facility	Address	City, State, ZIP
5F	School District, Lemoore Union High		101 E. Bush St.	Lemoore, CA 93245-3601
5F	School District, Liberty Elementary		11535 Ave. 264	Visalia, CA 93277-9483
5F	School District, Los Banos Unified		1717 S. 11th St.	Los Banos, CA 93635-4800
5F	School District, Madera Unified		1902 Howard Road	Madera, CA 93637-5123
5F	School District, McSwain Union Elementary		926 N. Scott Road	Merced, CA 95340-8893
5F	School District, Merced City Elementary		444 W. 23rd St.	Merced, CA 95340-3723
5F	School District, Merced Union High		Olive Ave. & G St.	Merced, CA 95344-0147
5F	School District, Monroe Elementary		11842 S. Chestnut Ave.	Fresno, CA 93725-9618
5F	School District, Norris Elementary		6940 Calloway Dr.	Bakersfield, CA 93312-9005
5F	School District, Oak Valley Union Elementary		24500 Road 68	Tulare, CA 93274-9607
5F	School District, Orange Center Elementary		3530 S. Cherry Ave.	Fresno, CA 93706-5615
5F	School District, Outside Creek Elementary		26452 Road 164	Visalia, CA 93292-9740
5F	School District, Pacific Union Elementary		2065 E. Bowles Ave.	Fresno, CA 93725-9630
5F	School District, Palo Verde Union Elementary		9637 Ave. 196	Tulare, CA 93274-9529
5F	School District, Panama Buena Vista Union Elementary		4200 Ashe Road	Bakersfield, CA 93313-2029
5F	School District, Pioneer Union Elementary		8810 14th Ave.	Hanford, CA 93230-9677
5F	School District, Plainsburg Union Elementary		3708 S. Plainsburg Road	Merced, CA 95340-9557
5F	School District, Pleasant View Elementary		14004 Road 184	Porterville, CA 93257-9214
5F	School District, Porterville Unified		600 West Grand Ave.	Porterville, CA 93257-2029
5F	School District, Rio Bravo-Greeley Union Elementary		6521 Enos Lane	Bakersfield, CA 93312-8721
5F	School District, Rockford Elementary		14983 Road 208	Porterville, CA 93257-9318
5F	School District, Rosedale Union Elementary		2553 Old Farm Road	Bakersfield, CA 93312-3531
5F	School District, Selma Unified		3036 Thompson Ave.	Selma, CA 93662-2497
5F	School District, Standard Elementary		1200 N. Chester Ave.	Bakersfield, CA 93308-3521
5F	School District, Stone Corral Elementary		15590 Ave. 383	Visalia, CA 93292-9545
5F	School District, Strathmore Union Elementary		23024 Ave. 198	Strathmore, CA 93267-0247
5F	School District, Strathmore Union High		22568 Ave. 196	Strathmore, CA 93267-0114
5F	School District, Sundale Union Elementary		13990 Ave. 240	Tulare, CA 93274-9563
5F	School District, Sunnyside Union Elementary		21644 Ave. 196	Strathmore, CA 93267-9795
5F	School District, Tulare City Elementary		600 N. Cherry Ave.	Tulare, CA 93274-2920
5F	School District, Tulare Joint Union High		426 N. Blackstone	Tulare, CA 93274-4449
5F	School District, Vineland Elementary		14713 Weedpatch Hwy.	Bakersfield, CA 93307-9653
5F	School District, Visalia Unified		5000 W Cypress Ave.	Visalia, CA 93277-8300
5F	School District, Washington Colony Elementary		130 E. Lincoln Ave.	Fresno, CA 93706-6043
5F	School District, Washington Union High		6041 S. Elm Ave.	Fresno, CA 93706-6099
5F	School District, Waukena Joint Union Elementary		19113 Road 28	Tulare, CA 93274-
5F	School District, Weaver Union Elementary		3076 E. Childs Ave.	Merced, CA 95340-9583
5F	School District, West Fresno Elementary		2888 S. Ivy St.	Fresno, CA 93706-5513
5F	School District, West Park Elementary		2695 S. Valentine Ave.	Fresno, CA 93706-9042
5F	School District, Woodville Elementary		16541 Road 168	Porterville, CA 93257-9205
5F	University of California	University of California, Merced	1170 W. Olive Avenue Suite I	Merced, CA 95348-1959
5F	Veteran Affairs	VA Central California Health Care System	2615 E. Clinton Avenue	Fresno, CA 93703

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5R	California Community Colleges	Shasta College	11555 Old Oregon Trail PO Box 496006	Redding, CA 96049-6006
5R	California State University	California State University Chico	400 West First Street	Chico, CA 95929
5R	District Agricultural Association	Shasta County Fairgrounds	1890 Briggs Street	Anderson, CA
5R	District Agricultural Association	Silver Dollar Fairgrounds	2357 Fair Street	Chico, CA
5R	School District, Anderson Union High		1471 Ferry St.	Anderson, CA 96007-3313
5R	School District, Cascade Union Elementary		1645 W. Mill St.	Anderson, CA 96007-3226
5R	School District, Chico Unified		1163 E. Seventh St.	Chico, CA 95928-5903
5R	School District, Columbia Elementary		10142 Old Oregon Trail Road	Redding, CA 96003-7995
5R	School District, Durham Unified		9420 Putney Dr.	Durham, CA 95938-0300
5R	School District, Enterprise Elementary		1155 Mistletoe Lane	Redding, CA 96002-0749
5R	School District, Gateway Unified		4411 Mountain Lakes Blvd.	Redding, CA 96003-1446
5R	School District, Grant Elementary		8835 Swasey Dr.	Redding, CA 96001-9722
5R	School District, Happy Valley Union Elementary		16300 Cloverdale Road	Anderson, CA 96007-
5R	School District, Pacheco Union Elementary		7433 Pacheco Rd	Redding, CA 96002-4603
5R	School District, Redding Elementary		5885 E. Bonnyview Road	Redding, CA 96099-2418
5R	School District, Shasta Union High		2200 Eureka way Suite B	Redding, CA 96001-
5S	California Air National Guard	162nd Combat Communications Group	3900 Roseville Road	North Highlands, CA 95660-5794
5S	California Community Colleges	American River College	4700 College Oak Drive	Sacramento, CA 95841-4286
5S	California Community Colleges	Cosumnes River College	8401 Center Parkway	Sacramento, CA 95823-5799
5S	California Community Colleges	Modesto Junior College	435 College Avenue	Modesto, CA 95350-5800
5S	California Community Colleges	Sacramento City College	3835 Freeport Boulevard	Sacramento, CA 95822-1386
5S	California Community Colleges	San Joaquin Delta College	5151 Pacific Avenue	Stockton, CA 95207-6370
5S	California Community Colleges	Sierra College	5000 Rocklin Road	Rocklin, CA 95677-3397
5S	California Community Colleges	Yuba College	2088 North Beale Road	Marysville, CA 95901-7699
5S	California State University	California State University Sacramento	6000 J Street	Sacramento, CA 95819
5S	California State University	California State University Stanislaus	801 West Monte Vista Ave	Turlock, CA 95382
5S	California Youth Authority	Northern California Youth Correctional Center	7650 Newcastle Rd	Stockton, CA
5S	California Youth Authority	Northern Youth Correctional Reception Center and Clinic	3001 Ramona Ave	Sacramento, CA
5S	Corrections, Dept of	California Medical Facility	1600 California Dr	Vacaville, CA 95696-2000
5S	Corrections, Dept of	CSP, Sacramento	PO Box 29	Represa, CA 95671
5S	Corrections, Dept of	CSP, Solano County	2100 Peabody Road	Vacaville, CA 95696-4000
5S	Corrections, Dept of	Deuel Vocational Institution	23500 Kasson Road	Tracy, CA 95378-0004
5S	Corrections, Dept of	Folsom State Prison	300 Prison Road	Represa, CA 95671
5S	Corrections, Dept of	Northern California Women's Facility	7150 East Arch Road	Stockton, CA 95213-9006
5S	Defense, Department of	Beale Air Force Base	9 CES/CEV 6601 B Street	Beale AFB, CA 95903-1708
5S	Defense, Department of	Defense Distribution San Joaquin	PO Box 960001	Stockton, CA 95296-0002
5S	Defense, Department of	McClellan Air Force Base	3237 Peacekeeper Way Suite 1	McClellan AFB, CA 95652-1044
5S	Defense, Department of	Stockton Naval Communications Station	305 Fyffe Ave	Stockton, CA 95203-4920
5S	District Agricultural Association	Contra Costa County Fairgrounds	1201 West 10th Street	Antioch, CA
5S	District Agricultural Association	Dixon May Fair	655 S First Street	Dixon, CA
5S	District Agricultural Association	Gold Country Fairgrounds	1273 High Street	Auburn, CA
5S	District Agricultural Association	Lake County Fairgrounds	401 Martin Street	Lakeport, CA

Region	Agency	Facility	Address	City, State, ZIP
5S	District Agricultural Association	Nevada County Fairgrounds	11228 McCourtney Road	Grass Valley, CA
5S	District Agricultural Association	San Joaquin County Fairgrounds	1658 S Airport Way	Stockton, CA
5S	District Agricultural Association	Stanislaus County Fairgrounds	900 N Broadway	Turlock, CA
5S	District Agricultural Association	Sutter County Fairgrounds	442 Franklin Ave	Yuba City, CA
5S	District Agricultural Association	Yolo County Fairgrounds	Hwy 113 & Gibson Rd	Woodland, CA
5S	Exposition & State Fair, California	California Exposition & State Fair	1600 Exposition Blvd	Sacramento, CA
5S	School District, Ackerman Elementary		13777 Bowman Road	Auburn, CA 95603-3147
5S	School District, Antioch Unified		510 G St.	Antioch, CA 94509-0904
5S	School District, Arcohe Union Elementary		11755 Ivie Road	Herald, CA 95638-0093
5S	School District, Auburn Union Elementary		55 College Way	Auburn, CA 95603-
5S	School District, Brentwood Union Elementary		255 Guthrie Lane	Brentwood, CA 94513-1610
5S	School District, Center Joint Unified		8408 Watt Ave.	Antelope, CA 95843-9116
5S	School District, Ceres Unified		2503 Lawrence St	Ceres, CA 95307-0307
5S	School District, Chatom Union Elementary		7201 Clayton Ave.	Turlock, CA 95380-9352
5S	School District, Chicago Park Elementary		15725 Mt Olive Road	Grass Valley, CA 95945-7906
5S	School District, Clear Creek Elementary		17700 McCourtney Road	Grass Valley, CA 95949-7636
5S	School District, Davis Joint Unified		526 B St.	Davis, CA 95616-3811
5S	School District, Del Paso Heights Elementary		3780 Rosin Court, Suite 270	Sacramento, CA 95834-1646
5S	School District, Dixon Unified		305 N. Almond St.	Dixon, CA 95620-2702
5S	School District, Dry Creek Joint Elementary		9707 Cook Riolo Road	Roseville, CA 95747-9793
5S	School District, El Dorado Union High		4675 Missouri Flat Road	Placerville, CA 95619-
5S	School District, Elk Grove Unified		9510 Elk Grove-Florin Road	Elk Grove, CA 95624-1801
5S	School District, Elverta Joint Elementary		8920 Elwyn Ave.	Elverta, CA 95626-9217
5S	School District, Empire Union Elementary		116 N. McClure Road	Modesto, CA 95357-1329
5S	School District, Eureka Union Elementary		5477 Eureka Road	Granite Bay, CA 95746-8808
5S	School District, Folsom-Cordova Unified		125 East Bidwell St.	Folsom, CA 95630-3241
5S	School District, Franklin Elementary		332 N. Township Road	Yuba City, CA 95993-9629
5S	School District, Galt Joint Union Elementary		1018 C St. Suite 210	Galt, CA 95632-
5S	School District, Galt Joint Union High		145 N. Lincoln Way	Galt, CA 95632-1720
5S	School District, Gold Oak Union Elementary		3171 Pleasant Valley Road	Placerville, CA 95667-7836
5S	School District, Gold Trail Union Elementary		1575 Old Ranch Road	Placerville, CA 95667-8929
5S	School District, Grant Joint Union High		1333 Grand Ave.	Sacramento, CA 95838-3697
5S	School District, Grass Valley Elementary		10840 Gilmore Way	Grass Valley, CA 95945-5409
5S	School District, Hart-Ransom Union Elementary		3920 Shoemake Ave.	Modesto, CA 95358-8577
5S	School District, Holt Union Elementary		1545 S. Holt Road	Stockton, CA 95206-9618
5S	School District, Hughson Unified		7419 East Whitmore Ave.	Hughson, CA 95326-
5S	School District, Jefferson Elementary		7500 W. Linne Road	Tracy, CA 95376-9278
5S	School District, Keyes Union Elementary		5465 Seventh St.	Keyes, CA 95328-0549
5S	School District, Knightsen Elementary		1923 Delta Road	Knightsen, CA 94548-0265
5S	School District, Lakeport Unified		100 Lange St.	Lakeport, CA 95453-3297
5S	School District, Lammersville Elementary		16555 W. Von Sosten Road	Tracy, CA 95376-7220
5S	School District, Liberty Union High		20 Oak St.	Brentwood, CA 94513-1379

Region	Agency	Facility	Address	City, State, ZIP
5S	School District, Lincoln Unified		2010 W. Swain Road	Stockton, CA 95207-4055
5S	School District, Lodi Unified		1305 E. Vine St.	Lodi, CA 95240-3148
5S	School District, Loomis Union Elementary		3290 Humphrey Road	Loomis, CA 95650-9043
5S	School District, Manteca Unified		2901 E. Louise Ave.	Manteca, CA 95336-0032
5S	School District, Marysville Joint Unified		1919 B St.	Marysville, CA 95901-3731
5S	School District, Modesto City Elementary		426 Locust St.	Modesto, CA 95351-2631
5S	School District, Modesto City High		426 Locust St.	Modesto, CA 95351-2631
5S	School District, Mother Lode Union Elementary		3783 Forni Road	Placerville, CA 95667-6207
5S	School District, Natomas Unified		1515 Sports Dr., Suite 1	Sacramento, CA 95834-1905
5S	School District, Nevada Joint Union High		11645 Ridge Road	Grass Valley, CA 95945-5024
5S	School District, New Jerusalem Elementary		31400 S. Koster Road	Tracy, CA 95376-8824
5S	School District, North Sacramento Elementary		670 Dixieanne Ave.	Sacramento, CA 95815-3023
5S	School District, Oakdale Joint Unified		168 S. Third Ave.	Oakdale, CA 95361-3935
5S	School District, Oakley Union Elementary		91 Mercedes Lane	Oakley, CA 94561-
5S	School District, Paradise Elementary		3361 California Ave.	Modesto, CA 95358-8337
5S	School District, Patterson Joint Unified		200 N. Seventh St.	Patterson, CA 95363-0547
5S	School District, Placer Union High		13000 New Airport Road	Auburn, CA 95604-5048
5S	School District, Placerville Union Elementary		1032 Thompson Way	Placerville, CA 95667-5713
5S	School District, Pleasant Ridge Union Elementary		22580 Kingston Lane	Grass Valley, CA 95949-7706
5S	School District, Plumas Elementary		2743 Plumas-Arboga Road	Marysville, CA 95901-9638
5S	School District, Rio Linda Union Elementary		627 L St.	Rio Linda, CA 95673-3430
5S	School District, Ripon Unified		304 N. Acacia Ave.	Ripon, CA 95366-2404
5S	School District, River Delta Joint Unified		445 Montezuma	Rio Vista, CA 94571-1651
5S	School District, Riverbank Unified		6715 7th St.	Riverbank, CA 95367-2345
5S	School District, Robla Elementary		5248 Rose St.	Sacramento, CA 95838-1633
5S	School District, Rocklin Unified		5035 Meyers St.	Rocklin, CA 95677-2811
5S	School District, Roseville City Elementary		1000 Darling Way	Roseville, CA 95678-4341
5S	School District, Roseville Joint Union High		1750 Cirby Way	Roseville, CA 95661-5520
5S	School District, Sacramento City Unified		520 Capitol Mall	Sacramento, CA 95812-2271
5S	School District, Salida Union Elementary		5250 Tamara Way	Salida, CA 95368-9226
5S	School District, San Juan Unified		3738 Walnut Ave.	Carmichael, CA 95609-0477
5S	School District, Shiloh Elementary		6633 Paradise Road	Modesto, CA 95358-9253
5S	School District, Stanislaus Union Elementary		3601 Carver Road	Modesto, CA 95356-0926
5S	School District, Stockton City Unified		701 N. Madison St.	Stockton, CA 95202-1634
5S	School District, Sylvan Union Elementary		605 Sylvan Ave.	Modesto, CA 95350-1517
5S	School District, Tracy Joint Unified		315 East Eleventh St.	Tracy, CA 95376-4095
5S	School District, Turlock Joint Elementary		1574 E Canal Dr.	Turlock, CA 95381-1105
5S	School District, Turlock Joint Union High		1574 E Canal Dr.	Turlock, CA 95381-1105
5S	School District, Union Hill Elementary		10879 Bartlett Dr.	Grass Valley, CA 95945-8730
5S	School District, Vacaville Unified		751 School St.	Vacaville, CA 95688-3945
5S	School District, Washington Unified		930 West Acres Road	West Sacramento, CA 95691-3224
5S	School District, Western Placer Unified		810 J Street	Lincoln, CA 95648-1825

Region	Agency	Facility	Address	City, State, ZIP
5S	School District, Woodland Joint Unified		630 Cottonwood St.	Woodland, CA 95695-3615
5S	School District, Yuba City Unified		750 Palora Ave.	Yuba City, CA 95991-3627
5S	University of California	The University of California, Davis	One Shields Avenue	Davis, CA 95616
5S	Veteran Affairs	Sacramento Medical Center @ Mather	10535 Hospital Way	Sacramento, CA 95655
6A	School District, Lake Tahoe Unified		1021 Al Tahoe Blvd.	South Lake Tahoe, CA 96150-4426
6B	Bureau of Prisons	FCI Victorville	PO Box 5400	Adelanto, CA 92301
6B	California Community Colleges	Antelope Valley College	3041 West Avenue K	Lancaster, CA 93536-5426
6B	California Community Colleges	Victor Valley College	18422 Bear Valley Road	Victorville, CA 92392-5849
6B	Corrections, Dept of	CSP, Los Angeles County	44750 60th Street West	Lancaster, CA 93536-7620
6B	Defense, Department of	Production Flight Test Installation, Air Force Plant 42	2503 East Avenue P	Palmdale, CA 93550-2196
6B	District Agricultural Association	San Bernardino County Fairgrounds	14800 Seventh Street	Victorville, CA
6B	School District, Antelope Valley Union High		44811 North Sierra Hwy.	Lancaster, CA 93534-3226
6B	School District, Apple Valley Unified		22974 Bear Valley Road	Apple Valley, CA 92308-7423
6B	School District, Eastside Union Elementary		6742 E. Avenue H	Lancaster, CA 93535-7849
6B	School District, Hesperia Unified		9144 Third St.	Hesperia, CA 92345-3643
6B	School District, Lancaster Elementary		44711 N. Cedar Ave.	Lancaster, CA 93534-3210
6B	School District, Palmdale Elementary		39139 10th St. East.	Palmdale, CA 93550-3419
6B	School District, Victor Elementary		15579 Eighth St.	Victorville, CA 92392-3348
6B	School District, Victor Valley Union High		16350 Mojave Dr.	Victorville, CA 92392-3655
6B	School District, Westside Union Elementary		46809 N. 70th St. West	Lancaster, CA 93535-7836
6B	School District, Wilsona Elementary		18050 East Ave. O	Palmdale, CA 93591-3800
7	California Community Colleges	College of the Desert	43 500 Monterey Avenue	Palm Desert, CA 92260-2499
7	School District, Banning Unified		161 W. Williams St.	Banning, CA 92220-4746
7	School District, Brawley Elementary		261 D St.	Brawley, CA 92227-1912
7	School District, Brawley Union High		480 N. Imperial Ave.	Brawley, CA 92227-1625
7	School District, Calexico Unified		901 Andrade Ave.	Calexico, CA 92232-0792
7	School District, Central Union High		1001 Brighton Ave.	El Centro, CA 92243-3110
7	School District, Coachella Valley Unified		87-225 Church St.	Thermal, CA 92274-0847
7	School District, Desert Sands Unified		47-950 Dune Palms Rd	La Quinta, CA 92253-4000
7	School District, El Centro Elementary		1256 Broadway	El Centro, CA 92243-2317
7	School District, Imperial Unified		219 North E Street	Imperial, CA 92254
7	School District, Palm Springs Unified		333 S. Farrell Dr.	Palm Springs, CA 92262-7905
8	California Air National Guard	163rd Air Refueling Wing	1620 Graeber Street, #6	March Field, CA 92518-1614
8	California Army National Guard	Los Alamitos AFRC	Lexington Dr	Los Alamitos, CA 90720
8	California Community Colleges	Chaffey College	5885 Haven Avenue	Rancho Cucamonga, CA 91737-3002
8	California Community Colleges	Coastline Community College	11460 Warner Avenue	Fountain Valley, CA 92708-2597
8	California Community Colleges	Crafton Hills College	11711 Sand Canyon Road	Yucaipa, CA 92399-1799
8	California Community Colleges	Cypress College	9200 Valley View Street	Cypress, CA 90630-5897
8	California Community Colleges	Fullerton College	321 East Chapman Avenue	Fullerton, CA 92832-2095
8	California Community Colleges	Golden West College	15744 Goldenwest Street	Huntington Beach, CA 92647 0592
8	California Community Colleges	Irvine Valley College	5500 Irvine Center Drive	Irvine, CA 92720-4399

Region	Agency	Facility	Address	City, State, ZIP
8	California Community Colleges	Mt. San Jacinto College	1499 North State Street	San Jacinto, CA 92583-2399
8	California Community Colleges	Orange Coast College	2701 Fairview Road PO Box 5005	Costa Mesa, CA 92628-5005
8	California Community Colleges	Riverside Community College	4800 Magnolia Avenue	Riverside, CA 92506-1293
8	California Community Colleges	San Bernardino Valley College	701 S. Mt. Vernon Avenue	San Bernardino, CA 92410-2798
8	California Community Colleges	Santa Ana College	1530 W. 17th Street	Santa Ana, CA 92706-3398
8	California Community Colleges	Santiago Canyon College	8045 E. Chapman Avenue	Orange, CA 92869-4512
8	California State University	California State University Fullerton	P.O. Box 34080	Fullerton, CA 92834
8	California State University	California State University San Bernardino	5500 University Parkway	San Bernardino, CA 92407
8	California Youth Authority	Heman G. Stark Youth Correctional Facility	15180 Euclid Ave	Chino, CA
8	Corrections, Dept of	California Institution for Men	14901 Central Avenue	Chino, CA 91710
8	Corrections, Dept of	California Institution for Women	16756 Chino-Corona Road	Corona, CA 92878-6000
8	Corrections, Dept of	California Rehabilitation Center	5th & Western	Norco, CA 91760
8	Defense, Department of	March Air Reserve Base	2145 Graeber St, Ste 117	March ARB, CA 92518-1671
8	Defense, Department of	Naval Warfare Assessment Station	2300 Fifth St	Norco, CA 91760
8	Defense, Department of	Seal Beach Naval Weapons Station	800 Seal Beach Blvd	Seal Beach, CA 90740-5000
8	Developmental Services, Dept of.	Fairview Developmental Center	2501 Harbor Blvd	Cotsa Mesa, CA
8	District Agricultural Association	Orange County Fairgrounds	88 Fair Drive	Costa Mesa, CA
8	Education, Dept of	Calif. School for the Deaf	3044 Horace St.	Riverside, CA 92506-4498
8	Mental Health, Dept of	Patton State Hospital	3102 e Highland Ave	Patton, CA
8	School District, Alta Loma Elementary		9340 Baseline Road	Alta Loma, CA 91701-5821
8	School District, Alvord Unified		10365 Keller Ave	Riverside, CA 92505-1349
8	School District, Anaheim Elementary		1001 S. East St.	Anaheim, CA 92805-5749
8	School District, Anaheim Union High		501 Crescent Way	Anaheim, CA 92803-3520
8	School District, Bear Valley Unified		42271 Moonridge Road	Big Bear Lake, CA 92315-1529
8	School District, Beaumont Unified		500 Grace Ave.	Beaumont, CA 92223-0187
8	School District, Brea-Olinda Unified		Number One Civic Cntr.	Brea, CA 92821-9990
8	School District, Buena Park Elementary		6885 Orangethorpe Ave.	Buena Park, CA 90620-1348
8	School District, Central Elementary		10601 Church St., Suite 112	Rancho Cucamonga, CA 91730-6863
8	School District, Centralia Elementary		6625 la Palma Ave.	Buena Park, CA 90620-2859
8	School District, Chaffey Joint Union		211 W. Fifth St.	Ontario, CA 91762-1698
8	School District, Chino Valley Unified		5130 Riverside Dr.	Chino, CA 91710-4130
8	School District, Colton Joint Unified		1212 Valencia Dr.	Colton, CA 92324-1798
8	School District, Corona-Norco Unified		2820 Clark Ave.	Norco, CA 91760-1903
8	School District, Cucamonga Elementary		8776 Archibald Ave.	Rancho Cucamonga, CA 91730-4698
8	School District, Cypress Elementary		9470 Moody St.	Cypress, CA 90630-2919
8	School District, Etiwanda Elementary		6061 East Ave.	Etiwanda, CA 91739-0248
8	School District, Fontana Unified		9680 Citrus Ave.	Fontana, CA 92335-5571
8	School District, Fountain Valley Elementary		17210 Oak St.	Fountain Valley, CA 92708-3405
8	School District, Fullerton Elementary		1401 W. Valencia Dr.	Fullerton, CA 92633-3938
8	School District, Fullerton Joint Union High		1051 W. Bastanchury Road	Fullerton, CA 92833-2247

Region	Agency	Facility	Address	City, State, ZIP
8	School District, Garden Grove Unified		10331 Stanford Ave.	Garden Grove, CA 92840-6351
8	School District, Hemet Unified		2350 W. Latham Ave.	Hemet, CA 92545-3632
8	School District, Huntington Beach City Elementary		20451 Craimer Lane	Huntington Beach, CA 92646-0071
8	School District, Huntington Beach Union High		10251 Yorktown Ave.	Huntington Beach, CA 92646-2999
8	School District, Irvine Unified		5050 Barranca Parkway	Irvine, CA 92604-4652
8	School District, Jurupa Unified		3924 Riverview Dr.	Riverside, CA 92509-6611
8	School District, La Habra City Elementary		500 N. Walnut St.	La Habra, CA 90633-0307
8	School District, Lake Elsinore Unified		545 Chaney St.	Lake Elsinore, CA 92530-2723
8	School District, Los Alamitos Unified		10293 Bloomfield St.	Los Alamitos, CA 90720-2264
8	School District, Magnolia Elementary		2705 W. Orange Ave.	Anaheim, CA 92804-3203
8	School District, Menifee Union Elementary		30205 Menifee Road	Menifee, CA 92584-8109
8	School District, Moreno Valley Unified		25634 Alessandro Blvd.	Moreno Valley, CA 92553-4306
8	School District, Mountain View Elementary		2585 S. Archibald Ave.	Ontario, CA 91761-8146
8	School District, Newport-Mesa Unified		2985-A Bear St.	Costa Mesa, CA 92626-
8	School District, Nuview Union Elementary		29780 Lakeview Ave.	Nuevo, CA 92567-9261
8	School District, Ocean View Elementary		17200 Pinehurst Lane	Huntington Beach, CA 92647-5569
8	School District, Ontario-Montclair Elementary		950 West D St.	Ontario, CA 91762-3026
8	School District, Orange Unified		1401 N. Handy St.	Orange, CA 92856-
8	School District, Perris Elementary		143 E. First St.	Perris, CA 92570-2113
8	School District, Perris Union High		155 E. Fourth St.	Perris, CA 92570-2124
8	School District, Placentia-Yorba Linda Unified		1301 E. Orangethorpe Ave.	Placentia, CA 92670-5302
8	School District, Redlands Unified		20 W. Lugonia	Redlands, CA 92373-1508
8	School District, Rialto Unified		182 E. Walnut Ave.	Rialto, CA 92376-3530
8	School District, Riverside Unified		3380 14th St.	Riverside, CA 92516-2800
8	School District, Romoland Elementary		25900 Leon Road	Homeland, CA 92548-
8	School District, San Bernardino City Unified		777 North F St.	San Bernardino, CA 92410-3017
8	School District, San Jacinto Unified		2045 S. San Jacinto Ave.	San Jacinto, CA 92583-5626
8	School District, Santa Ana Unified		1601 E. Chestnut Ave.	Santa Ana, CA 92701-6322
8	School District, Savanna Elementary		1330 S. Knott Ave.	Anaheim, CA 92804-4711
8	School District, Tustin Unified		300 South C St.	Tustin, CA 92780-3695
8	School District, Upland Unified		390 N. Euclid Ave.	Upland, CA 91785-1239
8	School District, Val Verde Unified		975 E. Morgan Road	Perris, CA 92571-3103
8	School District, Westminster Elementary		14121 Cedarwood Ave.	Westminster, CA 92683-4482
8	School District, Yucaipa-Calimesa Jt. Unified		12797 Third St.	Yucaipa, CA 92399-4544
8	University of California	University of California, Irvine		Irvine, CA 92697
8	University of California	University of California, Riverside	900 University Avenue	Riverside, CA 92521
8	Veteran Affairs	Jerry L. Pettis Memorial VA Medical Center	11201 Benton Street	Loma Linda, CA 92357
9	Bureau of Prisons	MCC San Diego	808 Union Street	San Diego, CA 92101-6078
9	California Community Colleges	Cuyamaca College	900 Rancho San Diego Parkway	El Cajon, CA 92019-4304
9	California Community Colleges	Grossmont College	8800 Grossmont College Drive	El Cajon, CA 92020-1799
9	California Community Colleges	MiraCosta College	1 Barnard Drive	Oceanside, CA 92056-3899
9	California Community Colleges	Palomar College	1140 West Mission Road	San Marcos, CA 92069-1487

Region	Agency	Facility	Address	City, State, ZIP
9	California Community Colleges	Saddleback College	28000 Marguerite Parkway	Mission Viejo, CA 92692-3699
9	California Community Colleges	San Diego City College	1313 12th Avenue	San Diego, CA 92101-4787
9	California Community Colleges	San Diego Mesa College	7250 Mesa College Drive	San Diego, CA 92111-4996
9	California Community Colleges	San Diego Miramar College	10440 Black Mountain Road	San Diego, CA 92126-2999
9	California Community Colleges	Southwestern College	900 Otay Lakes Road	Chula Vista, CA 91910-7299
9	California State University	California State University San Marcos	333 S. Twin Oaks Valley Rd.	San Marcos, CA 92096
9	California State University	San Diego State University	5500 Campanile Drive	San Diego, CA 92182
9	Corrections, Dept of	R J Donovan Correctional Facility at Rock Mountain	480 Alta Road	San Diego, CA 92179
9	Defense, Department of	Camp Pendleton Marine Corps Base	PO Box 555010	Camp Pendleton, CA 92055-5010
9	Defense, Department of	Fleet & Industrial Supply Center, Pt. Loma	937 N Harbor Dr	San Diego, CA 92132-0002
9	Defense, Department of	Fleet and Industrial Supply Center, Broadway Complex	33000 Nixie Way Bldg 50, Suite 326	San Diego, CA 92147-5110
9	Defense, Department of	Fleet Anti-Submarine Warfare Training Center, Pacific	33000 Nixie Way Bldg 50, Suite 326	San Diego, CA 92147-5110
9	Defense, Department of	Fleet Combat Training Center, Pacific	33000 Nixie Way Bldg 50, Suite 326	San Diego, CA 92147-5110
9	Defense, Department of	Magnetic Silencing Facility	33000 Nixie Way Bldg 50, Suite 326	San Diego, CA 92147-5110
9	Defense, Department of	Miramar Marine Corps Air Station	PO Box 452013	San Diego, CA 92145
9	Defense, Department of	Mission Gorge Recreational Facility	33000 Nixie Way Bldg 50, Suite 326	San Diego, CA 92147-5110
9	Defense, Department of	Naval Air Station, North Island	33000 Nixie Way Bldg 50, Suite 326	San Diego, CA 92147-5110
9	Defense, Department of	Naval Amphibious Base, Coronado	33000 Nixie Way Bldg 50, Suite 326	San Diego, CA 92147-5110
9	Defense, Department of	Naval Medical Center, San Diego	34800 Bob Wilson Drive	San Diego, CA 92134
9	Defense, Department of	Naval Outlying Landing Field, Imperial Beach	33000 Nixie Way, Building 50, Suite 326	San Diego, CA 92147-5110
9	Defense, Department of	Naval Radio Receiving Facility	33000 Nixie Way, Building 50, Suite 326	San Diego, CA 92147-5110
9	Defense, Department of	Naval Station, San Diego	3455 Senn Rd	San Diego, CA 92136-5084
9	Defense, Department of	Naval Submarine Base, San Diego	140 Sylvester Rd	San Diego, CA 92106-5200
9	Defense, Department of	Naval Weapon Station, Fallbrook	700 Ammunition Rd	Fallbrook, CA 92028-3187
9	Defense, Department of	Navy Public Works Center, Taylor Street Facility	33000 Nixie Way Bldg 50, Suite 326	San Diego, CA 92147-5110
9	Defense, Department of	San Diego Marine Corps Recruit Depot	1600 Henderson Ave #120	San Diego, CA 92140-5001
9	Defense, Department of	Space and Naval Warfare Systems Center, Old Town Cam		San Diego, CA
9	Defense, Department of	Space and Naval Warfare Systems Center, Point Loma Ca		San Diego, CA
9	District Agricultural Association	San Diego County Fairgrounds	2260 Jimmy Durante Blvd	Del Mar, CA
9	School District, Alpine Union Elementary		1323 Administration Way	Alpine, CA 91901-2104
9	School District, Bonsall Union Elementary		31505 Old River Road	Bonsall, CA 92003-5112
9	School District, Cajon Valley Union Elementary		189 Roanoke Road	El Cajon, CA 92022-1007
9	School District, Capistrano Unified		32972 Calle Perfecto	San Juan Capistrano, CA 92675-4706
9	School District, Carlsbad Unified		801 Pine Ave.	Carlsbad, CA 92008-2430
9	School District, Chula Vista Elementary		84 East J St.	Chula Vista, CA 91910-6115
9	School District, Coronado Unified		555 D Ave.	Coronado, CA 92118-1714
9	School District, Dehesa Elementary		4612 Dehesa Road	El Cajon, CA 92019-2922
9	School District, Del Mar Union Elementary		225 Ninth St.	Del Mar, CA 92014-2716
9	School District, Encinitas Union Elementary		101 South Rancho Santa Fe Road	Encinitas, CA 92024-4308
9	School District, Escondido Union Elementary		1330 E. Grand Ave.	Escondido, CA 92027-3099
9	School District, Escondido Union High		302 N. Midway Dr.	Escondido, CA 92027-2741

Region	Agency	Facility	Address	City, State, ZIP
9	School District, Fallbrook Union Elementary		321 N. Iowa St.	Fallbrook, CA 92088-0698
9	School District, Fallbrook Union High		S. Mission Road & Stage Coach L	Fallbrook, CA 92088-0368
9	School District, Grossmont Union High		1100 Murray Dr.	La Mesa, CA 91944-1043
9	School District, Jamul-Dulzura Union Elementary		14581 Lyons Valley Road	Jamul, CA 91935-3324
9	School District, Julian Union Elementary		1704 Hwy. 78	Julian, CA 92036-0337
9	School District, Julian Union High		1656 Hwy. 78	Julian, CA 92036-0417
9	School District, La Mesa-Spring Valley		4750 Date Ave.	La Mesa, CA 91941-5214
9	School District, Laguna Beach Unified		550 Blumont St.	Laguna Beach, CA 92651-2356
9	School District, Lakeside Union Elementary		12335 Woodside Ave.	Lakeside, CA 92040-0578
9	School District, Lemon Grove Elementary		8025 Lincoln St.	Lemon Grove, CA 91945-2515
9	School District, Mountain Empire Unified		3291 Buckman Springs Road	Pine Valley, CA 91962-4003
9	School District, Murrieta Valley Unified		41870 McAlby ct	Murrieta, CA 92562-7021
9	School District, National Elementary		1500 N Ave.	National City, CA 91950-4827
9	School District, Oceanside Unified		2111 Mission Ave.	Oceanside, CA 92054-2326
9	School District, Poway Unified		13626 Twin Peaks Road	Poway, CA 92064-3034
9	School District, Ramona City Unified		720 Ninth St.	Ramona, CA 92065-2348
9	School District, Rancho Santa Fe Elementary		5927 la Granada	Rancho Santa Fe, CA 92067-0809
9	School District, Saddleback Valley Unified		25631 Peter A Hartman Way	Mission Viejo, CA 92691-
9	School District, San Diego City Unified		4100 Normal St.	San Diego, CA 92103-2653
9	School District, San Dieguito Union High		710 Encinitas Blvd.	Encinitas, CA 92024-3357
9	School District, San Marcos Unified		1 Civic Center Dr., Suite 300	San Marcos, CA 92069-
9	School District, San Pasqual Union Elementary		16666 San Pasqual Valley Road	Escondido, CA 92027-7001
9	School District, San Ysidro Elementary		4350 Otay Mesa Road	San Ysidro, CA 92173-1617
9	School District, Santee Elementary		9625 Cuyamaca St.	Santee, CA 92071-2674
9	School District, Solana Beach Elementary		309 N. Rios Ave.	Solana Beach, CA 92075-1241
9	School District, South Bay Union Elementary		601 Elm Ave.	Imperial Beach, CA 91932-2029
9	School District, Spencer Valley Elementary		4414 Hwys. 78 and 79	Santa Ysabel, CA 92070-0159
9	School District, Sweetwater Union High		1130 Fifth Ave.	Chula Vista, CA 91911-2812
9	School District, Temecula Valley Unified		31350 Rancho Vista Road	Temecula, CA 92592-6202
9	School District, Vallecitos Elementary		5211 Fifth St.	Fallbrook, CA 92028-9795
9	School District, Valley Center-Pauma Unified		28751 Cole Grade Rd.	Valley Center, CA 92082-6599
9	School District, Vista Unified		1234 Arcadia Ave.	Vista, CA 92084-3404
9	School District, Warner Unified		30951 Hwy. 79	Warner Springs, CA 92086-0008
9	University of California	University of California, San Diego	9500 Gilman Dr.	La Jolla, CA 92093
9	Veteran Affairs	VA San Diego Healthcare System	3350 La Jolla Village Drive	San Diego, CA 92161

Areas subject to high growth or serving a population of at least 50,000 must comply with the following provisions (for counties this threshold population applies to the population within the permit area).

A. RECEIVING WATER LIMITATIONS

1. Discharges shall not cause or contribute to an exceedance of water quality standards contained in a Statewide Water Quality Control Plan, the California Toxics Rule (CTR), or in the applicable RWQCB Basin Plan.
2. The permittees shall comply with Receiving Water Limitations A.1 through timely implementation of control measures and other actions to reduce pollutants in the discharges in accordance with the SWMP and other requirements of this permit including any modifications. The SWMP shall be designed to achieve compliance with Receiving Water Limitations A.1. If exceedance(s) of water quality objectives or water quality standards (collectively, WQS) persist notwithstanding implementation of the SWMP and other requirements of this permit, the permittees shall assure compliance with Receiving Water Limitations A.1 by complying with the following procedure:
 - a. Upon a determination by either the permittees or the RWQCB that discharges are causing or contributing to an exceedance of an applicable WQS, the permittees shall promptly notify and thereafter submit a report to the RWQCB that describes BMPs that are currently being implemented and additional BMPs that will be implemented to prevent or reduce any pollutants that are causing or contributing to the exceedance of WQs. The report may be incorporated in the annual update to the SWMP unless the RWQCB directs an earlier submittal. The report shall include an implementation schedule. The RWQCB may require modifications to the report.
 - b. Submit any modifications to the report required by the RWQCB within 30 days of notification.
 - c. Within 30 days following approval of the report described above by the RWQCB, the permittees shall revise the SWMP and monitoring program to incorporate the approved modified BMPs that have been and will be implemented, implementation schedule, and any additional monitoring required.
 - d. Implement the revised SWMP and monitoring program in accordance with the approved schedule.

So long as the permittees have complied with the procedures set forth above and are implementing the revised SWMP, the permittees do not have to repeat the same procedure for continuing or recurring exceedances of the same receiving water limitations unless directed by the RWQCB to develop additional BMPs.

B. DESIGN STANDARDS

Regulated Small MS4s subject to this requirement must adopt an ordinance or other document to ensure implementation of the Design Standards included herein or a functionally equivalent program that is acceptable to the appropriate RWQCB. The ordinance or other document must be adopted and effective prior to the expiration of this General Permit or, for Small MS4s designated subsequent to the Permit adoption, within five years of designation as a regulated Small MS4.

All discretionary development and redevelopment projects that fall into one of the following categories are subject to these Design Standards. These categories are:

- Single-Family Hillside Residences
- 100,000 Square Foot Commercial Developments
- Automotive Repair Shops
- Retail Gasoline Outlets
- Restaurants
- Home Subdivisions with 10 or more housing units
- Parking lots 5,000 square feet or more or with 25 or more parking spaces and potentially exposed to storm water runoff

1. Conflicts With Local Practices

Where provisions of the Design Standards conflict with established local codes or other regulatory mechanism, (e.g., specific language of signage used on storm drain stenciling), the Permittee may continue the local practice and modify the Design Standards to be consistent with the code or other regulatory mechanism, except that to the extent that the standards in the Design Standards are more stringent than those under local codes or other regulatory mechanism, such more stringent standards shall apply.

2. Design Standards Applicable to All Categories

a. Peak Storm Water Runoff Discharge Rates

Post-development peak storm water runoff discharge rates shall not exceed the estimated pre-development rate for developments where the increased peak storm water discharge rate will result in increased potential for downstream erosion.

b. Conserve Natural Areas

If applicable, the following items are required and must be implemented in the site layout during the subdivision design and approval process, consistent with applicable General Plan and Local Area Plan policies:

- 1) Concentrate or cluster Development on portions of a site while leaving the remaining land in a natural undisturbed condition.
- 2) Limit clearing and grading of native vegetation at a site to the minimum amount needed to build lots, allow access, and provide fire protection.
- 3) Maximize trees and other vegetation at each site by planting additional vegetation, clustering tree areas, and promoting the use of native and/or drought tolerant plants.

- 4) Promote natural vegetation by using parking lot islands and other landscaped areas.
- 5) Preserve riparian areas and wetlands.

c. Minimize Storm Water Pollutants of Concern

Storm water runoff from a site has the potential to contribute oil and grease, suspended solids, metals, gasoline, pesticides, and pathogens to the storm water conveyance system. The development must be designed so as to minimize, to the maximum extent practicable, the introduction of pollutants of concern that may result in significant impacts, generated from site runoff of directly connected impervious areas (DCIA), to the storm water conveyance system as approved by the building official. Pollutants of concern consist of any pollutants that exhibit one or more of the following characteristics: current loadings or historic deposits of the pollutant are impacting the beneficial uses of a receiving water, elevated levels of the pollutant are found in sediments of a receiving water and/or have the potential to bioaccumulate in organisms therein, or the detectable inputs of the pollutant are at concentrations or loads considered potentially toxic to humans and/or flora and fauna.

In meeting this specific requirement, “minimization of the pollutants of concern” will require the incorporation of a BMP or combination of BMPs best suited to maximize the reduction of pollutant loadings in that runoff to the Maximum Extent Practicable. Those BMPs best suited for that purpose are those listed in the *California Storm Water Best Management Practices Handbooks*; *Caltrans Storm Water Quality Handbook: Planning and Design Staff Guide*; *Manual for Storm Water Management in Washington State*; *The Maryland Stormwater Design Manual*; *Florida Development Manual: A Guide to Sound Land and Water Management*; *Denver Urban Storm Drainage Criteria Manual, Volume 3 – Best Management Practices and Guidance Specifying Management Measures for Sources of Nonpoint Pollution in Coastal Waters*, USEPA Report No. EPA-840-B-92-002, as “likely to have significant impact” beneficial to water quality for targeted pollutants that are of concern at the site in question. However, it is possible that a combination of BMPs not so designated, may in a particular circumstance, be better suited to maximize the reduction of the pollutants.

d. Protect Slopes and Channels

Project plans must include BMPs consistent with local codes, ordinances, or other regulatory mechanism and the Design Standards to decrease the potential of slopes and/or channels from eroding and impacting storm water runoff:

- 1) Convey runoff safely from the tops of slopes and stabilize disturbed slopes.
- 2) Utilize natural drainage systems to the maximum extent practicable.
- 3) Stabilize permanent channel crossings.
- 4) Vegetate slopes with native or drought tolerant vegetation, as appropriate.
- 5) Install energy dissipaters, such as riprap, at the outlets of new storm drains, culverts, conduits, or channels that enter unlined channels in accordance with applicable specifications to minimize erosion, with the approval of all agencies

with jurisdiction, e.g., the U.S. Army Corps of Engineers and the California Department of Fish and Game.

- e. **Provide Storm Drain System Stenciling and Signage**
Storm drain stencils are highly visible source controls that are typically placed directly adjacent to storm drain inlets. The stencil contains a brief statement that prohibits the dumping of improper materials into the storm water conveyance system. Graphical icons, either illustrating anti-dumping symbols or images of receiving water fauna, are effective supplements to the anti-dumping message. All storm drain inlets and catch basins within the project area must be stenciled with prohibitive language (such as: “NO DUMPING – DRAINS TO OCEAN”) and/or graphical icons to discourage illegal dumping. Signs and prohibitive language and/or graphical icons, which prohibit illegal dumping, must be posted at public access points along channels and creeks within the project area. Legibility of stencils and signs must be maintained.

- f. **Properly Design Outdoor Material Storage Areas**
Outdoor material storage areas refer to storage areas or storage facilities solely for the storage of materials. Improper storage of materials outdoors may provide an opportunity for toxic compounds, oil and grease, heavy metals, nutrients, suspended solids, and other pollutants to enter the storm water conveyance system. Where proposed project plans include outdoor areas for storage of materials that may contribute pollutants to the storm water conveyance system, the following Structural or Treatment BMPs are required:
 - 1) Materials with the potential to contaminate storm water must be: (1) placed in an enclosure such as, but not limited to, a cabinet, shed, or similar structure that prevents contact with runoff or spillage to the storm water conveyance system; or (2) protected by secondary containment structures such as berms, dikes, or curbs.
 - 2) The storage area must be paved and sufficiently impervious to contain leaks and spills.
 - 3) The storage area must have a roof or awning to minimize collection of storm water within the secondary containment area.

- g. **Properly Design Trash Storage Areas**
A trash storage area refers to an area where a trash receptacle or receptacles (**dumpsters**) are located for use as a repository for solid wastes. Loose trash and debris can be easily transported by the forces of water or wind into nearby storm drain inlets, channels, and/or creeks. All trash container areas must meet the following Structural or Treatment Control BMP requirements (individual single family residences are exempt from these requirements):
 - 1) Trash container areas must have drainage from adjoining roofs and pavement diverted around the area(s).
 - 2) Trash container areas must be screened or walled to prevent off-site transport of trash.

- h. **Provide Proof of Ongoing BMP Maintenance**

**Attachment 4
To WQO 2003-0005-DWQ**

Improper maintenance is one of the most common reasons why water quality controls will not function as designed or which may cause the system to fail entirely. It is important to consider who will be responsible for maintenance of a permanent BMP, and what equipment is required to perform the maintenance properly. As part of project review, if a project applicant has included or is required to include, Structural or Treatment Control BMPs in project plans, the Permittee shall require that the applicant provide verification of maintenance provisions through such means as may be appropriate, including, but not limited to legal agreements, covenants, CEQA mitigation requirements and/or Conditional Use Permits.

For all properties, the verification will include the developer's signed statement, as part of the project application, accepting responsibility for all structural and treatment control BMP maintenance until the time the property is transferred and, where applicable, a signed agreement from the public entity assuming responsibility for Structural or Treatment Control BMP maintenance. The transfer of property to a private or public owner must have conditions requiring the recipient to assume responsibility for maintenance of any Structural or Treatment Control BMP to be included in the sales or lease agreement for that property, and will be the owner's responsibility. The condition of transfer shall include a provision that the property owners conduct maintenance inspection of all Structural or Treatment Control BMPs at least once a year and retain proof of inspection. For residential properties where the Structural or Treatment Control BMPs are located within a common area which will be maintained by a homeowner's association, language regarding the responsibility for maintenance must be included in the project's conditions, covenants and restrictions (CC&Rs). Printed educational materials will be required to accompany the first deed transfer to highlight the existence of the requirement and to provide information on what storm water management facilities are present, signs that maintenance is needed, how the necessary maintenance can be performed, and assistance that the Permittee can provide. The transfer of this information shall also be required with any subsequent sale of the property.

If Structural or Treatment Control BMPs are located within a public area proposed for transfer, they will be the responsibility of the developer until they are accepted for transfer by the County or other appropriate public agency. Structural or Treatment Control BMPs proposed for transfer must meet design standards adopted by the public entity for the BMP installed and should be approved by the County or other appropriate public agency prior to its installation.

- i. Design Standards for Structural or Treatment Control BMPs
The Permittees shall require that post-construction treatment control BMPs incorporate, at a minimum, either a volumetric or flow based treatment control design standard, or both, as identified below to mitigate (infiltrate, filter or treat) storm water runoff:
 - 1) Volumetric Treatment Control BMP

- a) The 85th percentile 24-hour runoff event determined as the maximized capture storm water volume for the area, from the formula recommended in Urban Runoff Quality Management, WEF Manual of Practice No. 23/ ASCE Manual of Practice No. 87, (1998); or
 - b) The volume of annual runoff based on unit basin storage water quality volume, to achieve 80 percent or more volume treatment by the method recommended in California Stormwater Best Management Practices Handbook – Industrial/ Commercial, (2003); or
 - c) The volume of runoff produced from a historical-record based reference 24-hour rainfall criterion for “treatment” that achieves approximately the same reduction in pollutant loads achieved by the 85th percentile 24-hour runoff event.
- 2) Flow Based Treatment Control BMP
- a) The flow of runoff produced from a rain event equal to at least two times the 85th percentile hourly rainfall intensity for the area; or
 - b) The flow of runoff produced from a rain event that will result in treatment of the same portion of runoff as treated using volumetric standards above.

Limited Exclusion

Restaurants and Retail Gasoline Outlets, where the land area for development or redevelopment is less than 5,000 square feet, are excluded from the numerical Structural or Treatment Control BMP design standard requirement only.

3. Provisions Applicable to Individual Priority Project Categories

a. 100,000 Square Foot Commercial Developments

1) Properly Design Loading/Unloading Dock Areas

Loading/unloading dock areas have the potential for material spills to be quickly transported to the storm water conveyance system. To minimize this potential, the following design criteria are required:

- a) Cover loading dock areas or design drainage to minimize run-on and runoff of storm water.
- b) Direct connections to storm drains from depressed loading docks (truck wells) are prohibited.

2) Properly Design Repair/Maintenance Bays

Oil and grease, solvents, car battery acid, coolant and gasoline from the repair/maintenance bays can negatively impact storm water if allowed to come into contact with storm water runoff. Therefore, design plans for repair bays must include the following:

- a) Repair/maintenance bays must be indoors or designed in such a way that doesn't allow storm water runoff or contact with storm water runoff.
- b) Design a repair/maintenance bay drainage system to capture all washwater, leaks and spills. Connect drains to a sump for collection and disposal. Direct connection of the repair/maintenance bays to the storm drain system is prohibited. If required by local jurisdiction, obtain an Industrial Waste Discharge Permit.

3) Properly Design Vehicle/Equipment Wash Areas

The activity of vehicle/equipment washing/steam cleaning has the potential to contribute metals, oil and grease, solvents, phosphates, and suspended solids to the storm water conveyance system. Include in the project plans an area for washing/steam cleaning of vehicles and equipment. The area in the site design must be:

- a) Self-contained and/ or covered, equipped with a clarifier, or other pretreatment facility, and
- b) Properly connected to a sanitary sewer or other appropriately permitted disposal facility.

b. Restaurants

1) Properly Design Equipment/Accessory Wash Areas

The activity of outdoor equipment/accessory washing/steam cleaning has the potential to contribute metals, oil and grease, solvents, phosphates, and suspended solids to the storm water conveyance system. Include in the project plans an area for the washing/steam cleaning of equipment and accessories. This area must be:

- a) Self-contained, equipped with a grease trap, and properly connected to a sanitary sewer.
- b) If the wash area is to be located outdoors, it must be covered, paved, have secondary containment, and be connected to the sanitary sewer or other appropriately permitted disposal facility.

c. Retail Gasoline Outlets

1) Properly Design Fueling Area

Fueling areas have the potential to contribute oil and grease, solvents, car battery acid, coolant and gasoline to the storm water conveyance system. The project plans must include the following BMPs:

- a) The fuel dispensing area must be covered with an overhanging roof structure or canopy. The canopy's minimum dimensions must be equal to or greater than the area within the grade break. The canopy must not drain onto the fuel dispensing area, and the canopy downspouts must be routed to prevent drainage across the fueling area.

- b) The fuel dispensing area must be paved with Portland cement concrete (or equivalent smooth impervious surface), and the use of asphalt concrete shall be prohibited.
- c) The fuel dispensing area must have a 2% to 4% slope to prevent ponding, and must be separated from the rest of the site by a grade break that prevents run-on of storm water to the extent practicable.
- d) At a minimum, the concrete fuel dispensing area must extend 6.5 feet (2.0 meters) from the corner of each fuel dispenser, or the length at which the hose and nozzle assembly may be operated plus 1 foot (0.3 meter), whichever is less.

d. Automotive Repair Shops

1) Properly Design Fueling Area

Fueling areas have the potential to contribute oil and grease, solvents, car battery acid, coolant and gasoline to the storm water conveyance system. Therefore, design plans, which include fueling areas, must contain the following BMPs:

- a. The fuel dispensing area must be covered with an overhanging roof structure or canopy. The canopy's minimum dimensions must be equal to or greater than the area within the grade break. The canopy must not drain onto the fuel dispensing area, and the canopy downspouts must be routed to prevent drainage across the fueling area.
- b. The fuel dispensing area must be paved with Portland cement concrete (or equivalent smooth impervious surface), and the use of asphalt concrete shall be prohibited.
- c. The fuel dispensing area must have a 2% to 4% slope to prevent ponding, and must be separated from the rest of the site by a grade break that prevents run-on of storm water to the extent practicable.
- d. At a minimum, the concrete fuel dispensing area must extend 6.5 feet (2.0 meters) from the corner of each fuel dispenser, or the length at which the hose and nozzle assembly may be operated plus 1 foot (0.3 meter), whichever is less.

2) Properly Design Repair/Maintenance Bays

Oil and grease, solvents, car battery acid, coolant and gasoline from the repair/maintenance bays can negatively impact storm water if allowed to come into contact with storm water runoff. Therefore, design plans for repair bays must include the following:

- a) Repair/maintenance bays must be indoors or designed in such a way that doesn't allow storm water run-on or contact with storm water runoff.
- b) Design a repair/maintenance bay drainage system to capture all wash-water, leaks and spills. Connect drains to a sump for collection and disposal. Direct connection of the repair/maintenance bays to the storm drain system is

prohibited. If required by local jurisdiction, obtain an Industrial Waste Discharge Permit.

3) Properly Design Vehicle/Equipment Wash Areas

The activity of vehicle/equipment washing/steam cleaning has the potential to contribute metals, oil and grease, solvents, phosphates, and suspended solids to the storm water conveyance system. Include in the project plans an area for washing/steam cleaning of vehicles and equipment. This area must be:

- a) Self-contained and/or covered, equipped with a clarifier, or other pretreatment facility, and properly connected to a sanitary sewer or other appropriately permitted disposal facility.

4) Properly Design Loading/Unloading Dock Areas

Loading/unloading dock areas have the potential for material spills to be quickly transported to the storm water conveyance system. To minimize this potential, the following design criteria are required:

- a) Cover loading dock areas or design drainage to minimize run-on and runoff of storm water.
- b) Direct connections to storm drains from depressed loading docks (truck wells) are prohibited.

e. Parking Lots

1) Properly Design Parking Area

Parking lots contain pollutants such as heavy metals, oil and grease, and polycyclic aromatic hydrocarbons that are deposited on parking lot surfaces by motor-vehicles. These pollutants are directly transported to surface waters. To minimize the offsite transport of pollutants, the following design criteria are required:

- a) Reduce impervious land coverage of parking areas.
- b) Infiltrate or treat runoff.

2) Properly Design To Limit Oil Contamination and Perform Maintenance

Parking lots may accumulate oil, grease, and water insoluble hydrocarbons from vehicle drippings and engine system leaks:

- a) Treat to remove oil and petroleum hydrocarbons at parking lots that are heavily used (e.g. fast food outlets, lots with 25 or more parking spaces , sports event parking lots, shopping malls, grocery stores, discount warehouse stores).
- b) Ensure adequate operation and maintenance of treatment systems particularly sludge and oil removal, and system fouling and plugging prevention control.

4. Waiver

A Permittee may, through adoption of an ordinance, code, or other regulatory mechanism incorporating the treatment requirements of the Design Standards, provide for a waiver from the requirement if impracticability for a specific property can be established. A waiver of impracticability shall be granted only when all other Structural or Treatment Control BMPs have been considered and rejected as infeasible. Recognized situations of impracticability include, (i) extreme limitations of space for treatment on a redevelopment project, (ii) unfavorable or unstable soil conditions at a site to attempt infiltration, and (iii) risk of ground water contamination because a known unconfined aquifer lies beneath the land surface or an existing or potential underground source of drinking water is less than 10 feet from the soil surface. Any other justification for impracticability must be separately petitioned by the Permittee and submitted to the appropriate RWQCB for consideration. The RWQCB may consider approval of the waiver justification or may delegate the authority to approve a class of waiver justifications to the RWQCB EO. The supplementary waiver justification becomes recognized and effective only after approval by the RWQCB or the RWQCB EO. A waiver granted by a Permittee to any development or redevelopment project may be revoked by the RWQCB EO for cause and with proper notice upon petition.

5. Limitation on Use of Infiltration BMPs

Three factors significantly influence the potential for storm water to contaminate ground water. They are (i) pollutant mobility, (ii) pollutant abundance in storm water, (iii) and soluble fraction of pollutant. The risk of contamination of groundwater may be reduced by pretreatment of storm water. A discussion of limitations and guidance for infiltration practices is contained in, *Potential Groundwater Contamination from Intentional and Non-Intentional Stormwater Infiltration, Report No. EPA/600/R-94/051, USEPA (1994)*.

In addition, the distance of the groundwater table from the infiltration BMP may also be a factor determining the risk of contamination. A water table distance separation of ten feet depth in California presumptively poses negligible risk for storm water not associated with industrial activity or high vehicular traffic.

Site specific conditions must be evaluated when determining the most appropriate BMP. Additionally, monitoring and maintenance must be provided to ensure groundwater is protected and the infiltration BMP is not rendered ineffective by overload. This is especially important for infiltration BMPs for areas of industrial activity or areas subject to high vehicular traffic [25,000 or greater average daily traffic (ADT) on main roadway or 15,000 or more ADT on any intersecting roadway]. In some cases pretreatment may be necessary.

6. Alternative Certification for Storm Water Treatment Mitigation

In lieu of conducting detailed BMP review to verify Structural or Treatment Control BMP adequacy, a Permittee may elect to accept a signed certification from a Civil Engineer or a Licensed Architect registered in the State of California, that the plan meets

Attachment 4
To WQO 2003-0005-DWQ

the criteria established herein. The Permittee is encouraged to verify that certifying person(s) have been trained on BMP design for water quality, not more than two years prior to the signature date. Training conducted by an organization with storm water BMP design expertise (e.g., a University, American Society of Civil Engineers, American Society of Landscape Architects, American Public Works Association, or the California Water Environment Association) may be considered qualifying.

Communities Anticipated to be Subject to Supplemental Provisions

RWQCB	Area	Reason/Population
1	Windsor	High Growth
2	Clayton	High Growth
2	Marin County	58563
2	Napa	72585
2	Petaluma	54548
2	San Francisco	776733
2	San Rafael	56063
3	Greenfield	High Growth
3	Hollister	High Growth
3	King City	High Growth
3	Morgan Hill	High Growth
3	Nipomo	High Growth
3	Prunedale	High Growth
3	Santa Barbara	92325
3	Santa Barbara County	140453
3	Santa Cruz	54593
3	Santa Cruz County	116783
3	Santa Maria	77423
3	Soledad	High Growth
3	Watsonville	High Growth
5F	Hanford	High Growth
5F	Lemoore	High Growth
5F	Los Banos	High Growth
5F	Madera	High Growth
5F	Merced	63893
5F	Visalia	91565
5R	Chico	59954
5R	Chico	High Growth
5R	Redding	80865
5S	Davis	60308
5S	Dixon	High Growth
5S	El Dorado Hills	High Growth
5S	Lathrop	High Growth
5S	Lincoln	High Growth
5S	Oakley	High Growth
5S	Placer County	75262
5S	Ripon	High Growth
5S	Riverbank	High Growth
5S	Rocklin	High Growth

RWQCB	Area	Reason/Population
5S	Roseville	79921
5S	Roseville	High Growth
5S	Salida	High Growth
5S	South Yuba City	High Growth
5S	Stanislaus County	67145
5S	Tracy	56929
5S	Tracy	High Growth
5S	Turlock	55810
5S	Vacaville	88625
6	Apple Valley	54239
6	Hesperia	62582
6	Lancaster	118718
6	Palmdale	116670
6	Victorville	64029
6B	Lake Los Angeles	High Growth
6B	Palmdale	High Growth
6B	Rosamond	High Growth
6B	Victorville	High Growth
7	Calexico	High Growth
7	Rancho Mirage	High Growth
5S	Lodi	56999

**INSTRUCTIONS FOR COMPLETING THE NOTICE OF INTENT
TO COMPLY WITH THE TERMS OF THE GENERAL PERMIT FOR STORM WATER
DISCHARGES FROM SMALL MS4s
(WATER QUALITY ORDER NO. 2003 – 0005 - DWQ)**

I. NOI STATUS

Check box "1" if this is a new NOI submittal. Check box "2" if you are reporting changes to the NOI (e.g., new contact person, phone number, mailing address). Include the facility WDID number and highlight all the information that has been changed. The appropriate official must sign the form, certifying the changes.

II. AGENCY INFORMATION

- A. Enter the name of the agency applying for coverage.
- B. Enter the first and last name of the person familiar with the permit and responsible for permit compliance.
- C. Enter the Title of the person listed in "B".
- D. Enter the agency's mailing address.
- E. Enter if necessary the 2nd address line.
- F. Enter the agency's mailing address city.
- G. Enter the agency's mailing address zip code.
- H. Enter the county in which the agency is located. If the agency is located in more than one county, list all applicable counties. Attach additional sheets if necessary.
- I. Enter the phone number where the contact person can be reached.
- J. Enter the FAX number where the contact person can be reached.
- K. Enter the email address where the contact person can be reached.
- L. Check the box that corresponds to the agency owner.

III. Permit Area

General name of the permit area, such as the Sacramento Metropolitan Area

IV. Boundaries of Coverage

Describe the boundaries of the area to be permitted and include a site map. For a city, this would be the established city boundaries. For a county, unless the entire county is designated, the permitted area should be inclusive of the area of concern and rely on simplified boundaries for each general direction, such as rivers, major roads or highways, or an adjoining city's boundary. For non-traditional Small MS4s, in general, the property line shall serve as the permit boundary.

V. Billing Information

- A. Enter the name of the agency applying for coverage.
- B. Enter the first and last name of the person familiar with the permit and responsible for permit compliance.
- C. Enter the Title of the person listed in "B".
- D. Enter the agency's mailing address.
- E. Enter if necessary the 2nd address line.
- F. Enter the agency's mailing address city.

- G. Enter the agency's mailing address zip code.
- H. Enter the county in which the agency is located.
- I. Enter the phone number where the contact person can be reached.
- J. Enter the FAX number where the contact person can be reached.
- K. Enter the email address where the contact person can be reached.
- L. Enter the average daily-user population of the applicant's permitted area. This is not the combined permit area of co-permittees. Submit the amount indicated by the current fee schedule (California Code of Regulations, Title 23, Division 3, Chapter 9, Article 1.) with the NOI package to the Regional Board. The fee schedule may be found at www.swrcb.ca.gov/stormwtr/municipal.html. School districts are exempt from MS4 permit fees.

VI. Permit Type

Check the box that corresponds to the permitting option you wish to apply for:

Check box 1 if applying for individual general permit coverage.

Check box 2 if applying for a permit with one or more co-permittees. If you are applying to be a co-permittee, an appropriate official representing each agency who will participate in the area-wide permit must sign on the lines provided certifying the agency will be a co-permittee with the other agencies listed to implement a storm water program in the combined designated areas of each of the agency's jurisdiction. The agency to act as the Lead Agency (the entity responsible for being the main contact with the RWQCB for permit administration) shall start the list. If more than four agencies will act as co-permittees, continue the list on a separate page. The NOI must have original signatures.

Check box 3 if designating a Separate Implementing Entity and enter agency information.

- A. Enter the name of the agency applying for coverage.
- B. Enter the first and last name of the person familiar with the permit and responsible for permit compliance.
- C. Enter the title of person in "B".
- D. Enter the agency's mailing address phone number where the contact person can be reached.
- E. Enter if necessary the 2nd address line.
- F. Enter the agency's mailing address city.
- G. Enter the agency's mailing address zip code.
- H. Enter the county in which the agency is located. If the agency is located in more than one county, list all applicable counties. Attach additional sheets if necessary.
- I. Enter the phone number where the contact person can be reached.
- J. Enter the FAX number where the contact person can be reached.
- K. Enter the email address where the contact person can be reached.
- L. Check the box that corresponds to the agency owner.
- M. List all of the Minimum Control Measure(s) that will be implemented by the SIE.
- N. Certification by an appropriate SIE official that the SIE agrees to include the agency in implementing the SWMP. For a municipality, State, Federal, or other public agency the appropriate official would be a principal executive officer, ranking elected official or duly authorized representative. The principal executive officer of

a Federal agency includes the chief executive officer of the agency or the senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator of USEPA).

For multiple agencies implementing different Minimum Control Measures please use a separate form for each Minimum Control Measures. A photocopy of the 2nd page of the NOI is adequate, but must have original signatures.

VII. STORM WATER MANAGEMENT PROGRAM

The SWMP must be submitted with the NOI. Check the box if the SWMP is completed and attached to the NOI. If a SIE is implementing all of the Minimum Control Measures it is not necessary to submit a SWMP.

VIII. CERTIFICATION

- A. Print the name of the appropriate official. For a municipality, State, Federal, or other public agency this would be a principal executive officer, ranking elected official, or duly authorized representative. The principal executive officer of a Federal agency includes the chief executive officer of the agency or the senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator of USEPA).
- B. Enter the professional title of the person signing the NOI.
- C. The person whose name is printed in box IV.A must sign the NOI.
- D. Provide the date on which the Information Sheet was signed.

State Water Resources Control Board
NOTICE OF INTENT
TO COMPLY WITH THE TERMS OF THE GENERAL PERMIT FOR
STORM WATER DISCHARGES FROM
SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS
(WATER QUALITY ORDER NO. 2003 – 0005 - DWQ)

I. NOI Status

Mark Only One Item	1. <input type="checkbox"/> New Permittee	2. <input type="checkbox"/> Change of Information	WDID #: _____
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II. Agency Information

A. Agency			
B. Contact Person		C. Title	
D. Mailing Address		E. Address (Line 2)	
F. City	State CA	G. Zip	H. County
I. Phone	J. FAX	K. Email Address	
L. Operator Type (check one)			
1. <input type="checkbox"/> City 2. <input type="checkbox"/> County 3. <input type="checkbox"/> State 4. <input type="checkbox"/> Federal 5. <input type="checkbox"/> Special District 6. <input type="checkbox"/> Government Combination			

III. Permit Area

IV. Boundaries of Coverage (include a site map with the submittal)

V. Billing Information

A. Agency			
B. Contact Person		C. Title	
D. Mailing Address		E. Address (Line 2)	
F. City	State CA	G. Zip	H. County
I. Phone	J. FAX	K. Email Address	
<p>Fees are based on the daily population served by the Small MS4. To determine your fee, consult the current fee schedule (California Code of Regulations, Title 23, Division 3, Chapter 9 Article 1), which can be viewed at www.swrcb.ca.gov/stormwtr/municipal.html.</p> <p>L. Population _____ Fee _____</p> <p>Check(s) should be made payable to the SWRCB and submitted to the appropriate RWQCB.</p> <p>SWRCB Tax ID is: 68-0281986</p>			

VI. Discharger Information (check applicable box(es) and complete corresponding information)

1. Applying for Individual General Permit Coverage

2. Applying for a permit with one or more co-permittees

The undersigned agree to work as co-permittees in implementing a complete small MS4 storm water program. The program must comply with the requirements found in Title 40 of the Code of Federal Regulations, parts 122.32. Attach additional sheets if necessary. Each co-permittee must complete an NOI.	
Lead Agency	Signature
Agency	Signature
Agency	Signature
Agency	Signature

3. Separate Implementing Entity (SIE)

A. Agency			
B. Contact Person		C. Title	
D. Mailing Address		E. Address (Line 2)	
F. City	State CA	G. Zip	H. County
I. Phone	J. FAX	K. Email Address	
H. Operator Type (check one) 1. <input type="checkbox"/> City 2. <input type="checkbox"/> County 3. <input type="checkbox"/> State 4. <input type="checkbox"/> Federal 5. <input type="checkbox"/> Special District 6. <input type="checkbox"/> Government Combination			
Minimum Control Measures being implemented by the SIE (check all that apply)			
<input type="checkbox"/> Public Education	<input type="checkbox"/> Public Involvement	<input type="checkbox"/> Illicit Discharge/Elimination	
<input type="checkbox"/> Construction	<input type="checkbox"/> Post Construction	<input type="checkbox"/> Good Housekeeping	
<p>"I agree to coordinate with the agency identified in Section III of this form and comply with its qualifying storm water program. I certify under penalty of law that this document and all attachments were prepared under my direction and 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, to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Additionally, I certify that the provisions of the permit, including the development and implementation of a Storm Water Management Program, will be complied with."</p>			
N. Signature of Official _____		Date _____	

VII. Storm Water Management Plan (check box)

As per section A.2. of this General Permit, the SWMP is attached.

VIII. Certification

<p>"I certify under penalty of law that this document and all attachments were prepared under my direction and 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, to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Additionally, I certify that the provisions of the permit, including the development and implementation of a Storm Water Management Program, will be complied with."</p>	
A. Printed Name: _____	
B. Title: _____	
C. Signature: _____	D. Date: _____

STATE WATER RESOURCES CONTROL BOARD

Division of Water Quality
Attention: Storm Water Section
P.O. Box 1977

Sacramento, CA 95812-1977
(916) 341-5539 FAX: (916) 341-5543

Web Page: <http://www.swrcb.ca.gov/stormwtr/index.html>

Email: stormwater@dwq.swrcb.ca.gov

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARDS

NORTH COAST REGION (1)
5550 Skylane Blvd., Ste. A
Santa Rosa, CA 95403
(707) 576-2220 FAX: (707) 523-0135
Web Page: <http://www.swrcb.ca.gov/rwqcb1>

SAN FRANCISCO BAY REGION (2)
1515 Clay Street, Ste. 1400
Oakland, CA 94612
(510) 622-2300 FAX: (510) 622-2460
Web Page: <http://www.swrcb.ca.gov/rwqcb2>

CENTRAL COAST REGION (3)
895 Aerovista Place, Suite 101
San Luis Obispo, CA 93401
(805) 549-3147 FAX: (805) 543-0397
Web Page: <http://www.swrcb.ca.gov/rwqcb3>

LOS ANGELES REGION (4)
320 W. 4th Street, Ste. 200
Los Angeles, CA 90013
(213) 576-6600 FAX: (213) 576-6640
Web Page: <http://www.swrcb.ca.gov/rwqcb4>

LAHONTAN REGION (6 SLT)
2501 Lake Tahoe Blvd.
South Lake Tahoe, CA 96150
(530) 542-5400 FAX: (530) 544-2271
Web Page: <http://www.swrcb.ca.gov/rwqcb6>

VICTORVILLE BRANCH OFFICE (6V)
15428 Civic Drive, Ste. 100
Victorville, CA 92392-2383
(760) 241-6583 FAX: (760) 241-7308
Web Page: <http://www.swrcb.ca.gov/rwqcb6>

CENTRAL VALLEY REGION (5S)
3443 Routier Road, Ste. A
Sacramento, CA 95827-3098
(916) 255-3000 FAX: (916) 255-3015
Web Page: <http://www.swrcb.ca.gov/rwqcb5>

FRESNO BRANCH OFFICE (5F)
1685 "E" Street
Fresno, CA 93706-2020
(559) 445-5116 FAX: (559) 445-5910
Web Page: <http://www.swrcb.ca.gov/rwqcb5>

REDDING BRANCH OFFICE (5R)
415 Knollcrest Drive, Ste. 100
Redding, CA 96002
(530) 224-4845 FAX: (530) 224-4857
Web Page: <http://www.swrcb.ca.gov/rwqcb5>

COLORADO RIVER BASIN REGION (7)
73-720 Fred Waring Dr., Ste. 100
Palm Desert, CA 92260
(760) 346-7491 FAX: (760) 341-6820
Web Page: <http://www.swrcb.ca.gov/rwqcb7>

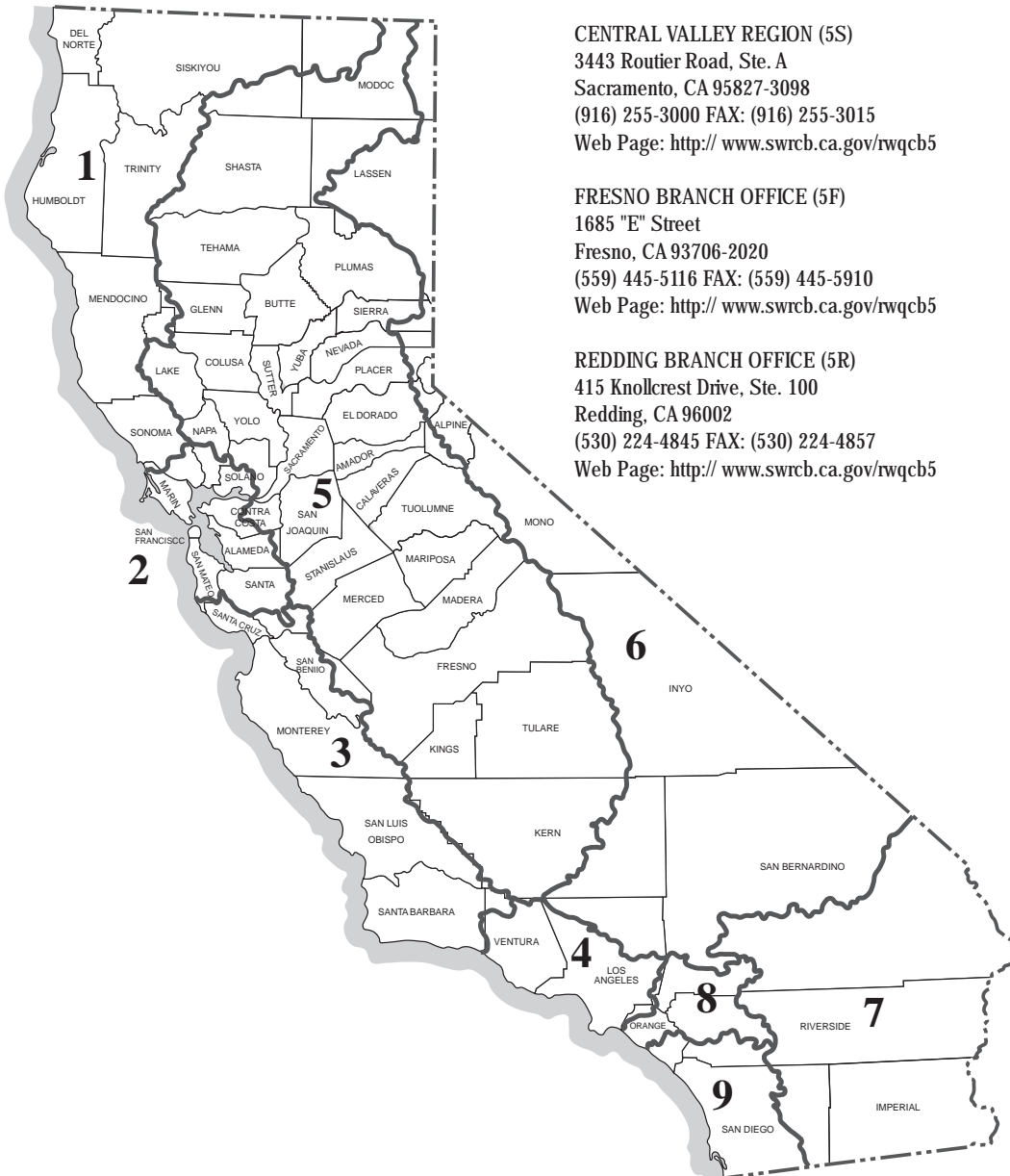
SANTA ANA REGION (8)
California Tower
3737 Main Street, Ste. 500
Riverside, CA 92501-3339
(909) 782-4130 FAX: (909) 781-6288
Web Page: <http://www.swrcb.ca.gov/rwqcb8>

SAN DIEGO REGION (9)
9174 Sky Park Court, Suite 100
San Diego, CA 92123
(858) 467-2952 FAX: (858) 571-6972
Web Page: <http://www.swrcb.ca.gov/rwqcb9>

STATE OF CALIFORNIA
Gray Davis, Governor

CALIFORNIA ENVIRONMENTAL
PROTECTION AGENCY
Winston H. Hickox, Secretary

STATE WATER RESOURCES
CONTROL BOARD
Arthur Baggett Jr., Chair



Definition of Terms

1. **100,000 Square Foot Commercial Development** - 100,000 Square Foot Commercial Development means any commercial development that creates at least 100,000 square feet of impermeable area, including parking areas.
2. **Automotive Repair Shop** - Automotive Repair Shop means a facility that is categorized in any one of the following Standard Industrial Classification (SIC) codes: 5013, 5014, 5541, 7532-7534, or 7536-7539.
3. **Authorized Non-Storm Water Discharges** – Authorized non-storm water discharges are certain categories of discharges that are not composed entirely of storm water but are not found to pose a threat to water quality. They include: water line flushing; landscape irrigation; diverted stream flows; rising ground waters; uncontaminated ground water infiltration (as defined at 40 CFR §35.2005(20)) to separate storm sewers; uncontaminated pumped ground water; discharges from potable water sources; foundation drains; air conditioning condensate; irrigation water; springs; water from crawl space pumps; footing drains; lawn watering; individual residential car washing; flows from riparian habitats and wetlands; dechlorinated swimming pool discharges; and discharges or flows from emergency fire fighting activities. If any of the above authorized non-storm water discharges (except flows from fire fighting activities) are found to cause or contribute to an exceedance of water quality standards or cause or threaten to cause a condition of nuisance or pollution, the category of discharge must be prohibited.
4. **Best Management Practices (BMPs)** – Best management practices means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of 'waters of the United States.' BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. (40 CFR §122.2)
5. **Commercial Development** - Commercial Development means any development on private land that is not heavy industrial or residential. The category includes, but is not limited to: hospitals, laboratories and other medical facilities, educational institutions, recreational facilities, plant nurseries, multi-apartment buildings, car wash facilities, mini-malls and other business complexes, shopping malls, hotels, office buildings, public warehouses and other light industrial complexes.
6. **Directly Connected Impervious Area (DCIA)** - DCIA is the acronym for directly connected impervious areas and means the area covered by a building, impermeable pavement, and/ or other impervious surfaces, which drains directly into the storm drain without first flowing across permeable land area (e.g. lawns).
7. **Discretionary Project** - Discretionary Project means a project which requires the exercise of judgement or deliberation when the public agency or public body decides to approve or disapprove a particular activity, as distinguished from situations where the public agency or body merely has to determine whether there has been conformity with applicable statutes, ordinances, or regulations.
8. **Greater than (>) 9 unit home subdivision** - Greater than 9 unit home subdivision means any subdivision being developed for 10 or more single-family or multi-family dwelling units.

9. **Hillside** - Hillside means property located in an area with known erosive soil conditions, where the development contemplates grading on any natural slope that is twenty-five percent or greater.
10. **Infiltration** - Infiltration means the downward entry of water into the surface of the soil.
11. **Measurable Goal** – Measurable goals are definable tasks or accomplishments that are associated with implementing best management practices.
12. **Minimum Control Measure** – A minimum control measure is a storm water program area that must be addressed (best management practices implemented to accomplish the program goal) by all regulated Small MS4s. The following six minimum control measures are required to be addressed by the regulated Small MS4s: Public Education and Outreach on storm Water Impacts, Public Involvement/Participation, Illicit Discharge Detection and Elimination, construction Site Storm Water Runoff Control, Post-Construction Storm Water Management in New Development and Redevelopment, and Pollution Prevention/Good Housekeeping for Municipal Operations.
13. **New Development** - New Development means land disturbing activities; structural development, including construction or installation of a building or structure, creation of impervious surfaces; and land subdivision.
14. **Offsite Facility** - An offsite facility is a geographically non-adjacent or discontinuous site that serves, or is secondary to, the primary facility and has the same owner as the primary facility. Storm water discharges from an offsite facility must be permitted if it meets the definition of a regulated Small MS4 itself. The offsite facility may satisfy this permitting requirement if the SWMP of the primary facility addresses the offsite facility, such that the permitted area of the primary facility includes the offsite area.
15. **Outfall** – A point source at the point where a municipal separate storm sewer discharges to waters of the United States and does not include open conveyances connecting two municipal separate storm sewers, or pipes, tunnels or other conveyances which connect segments of the same stream or other waters of the United States and are used to convey waters of the United States. (40 CFR §122.26(b)(9))
16. **Parking Lot** - Parking Lot means land area or facility for the temporary parking or storage of motor vehicles used personally, for business or for commerce with a lot size of 5,000 square feet or more, or with 25 or more parking spaces.
17. **Point Source** – Any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural storm water runoff. (40 CFR §122.2)

18. **Regulated Small MS4** – A regulated Small MS4 is a Small MS4 that is required to be permitted for discharging storm water through its MS4 to waters of the U.S. and is designated either automatically by the U.S. EPA because it is located within an urbanized area, or designated by the SWRCB or RWQCB in accordance with the designation criteria listed at Finding 11 of the General Permit.

19. **Redevelopment** - Redevelopment means, on an already developed site, the creation or addition of at least 5,000 square feet of impervious area. Redevelopment includes, but is not limited to: the expansion of a building footprint or addition of a structure; structural development including an increase in gross floor area and/ or exterior construction or remodeling; and land disturbing activities related with structural or impervious surfaces. Where redevelopment results in an increase of less than fifty percent of the impervious surfaces of a previously existing development, and the existing development was not subject to these Design Standards, the Design Standards apply only to the addition, and not to the entire development.

20. **Restaurant** - Restaurant means a stand-alone facility that sells prepared foods and drinks for consumption, including stationary lunch counters and refreshment stands selling prepared foods and drinks for immediate consumption. (SIC code 5812).

21. **Retail Gasoline Outlet** - Retail Gasoline Outlet means any facility engaged in selling gasoline and lubricating oils.

22. **Small Municipal Separate Storm Sewer System (Small MS4)** – A conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains) that are:
 - (i) Owned or operated by the United States, a State, city, town, boroughs, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, storm water, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or designated and approved management agency under section 208 of the CWA that discharges to waters of the United States.
 - (ii) Not defined as “large” or “medium” municipal separate storm sewer systems
 - (iii) This term includes systems similar to separate storm sewer systems in municipalities, such as systems at military bases, large hospital or prison complexes, and highways and other thoroughfares. The term does not include separate storm sewers in very discrete areas, such as individual buildings. (40 CFR §122.26(b)(16))

23. **Separate Implementing Entity (SIE)** – A Separate Implementing Entity is an entity, such as a municipality, agency, or special district, other than the entity in question, that implements parts or all of a storm water program for a Permittee. The SIE may also be permitted under 40 CFR Part 122. Arrangements of one entity implementing a program for another entity is subject to approval by the Regional Water Quality Control Board Executive Officer.

24. **Source Control BMP** - Source Control BMP means any schedules of activities, prohibitions of practices, maintenance procedures, managerial practices or operational practices that aim to prevent storm water pollution by reducing the potential for contamination at the source of pollution.

25. **Storm Event** - Storm Event means a rainfall event that produces more than 0.1 inch of precipitation and that, which is separated from the previous storm event by at least 72 hours of dry weather.
26. **Structural BMP** - Structural BMP means any structural facility designed and constructed to mitigate the adverse impacts of storm water and urban runoff pollution (e.g. canopy, structural enclosure). The category may include both Treatment Control BMPs and Source Control BMPs.
27. **Treatment** - Treatment means the application of engineered systems that use physical, chemical, or biological processes to remove pollutants. Such processes include, but are not limited to, filtration, gravity settling, media adsorption, biodegradation, biological uptake, chemical oxidation and UV radiation.
28. **Treatment Control BMP** - Treatment Control BMP means any engineered system designed to remove pollutants by simple gravity settling of particulate pollutants, filtration, biological uptake, media adsorption or any other physical, biological, or chemical process.

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Appendix A.2 Phase II General Permit Standard Provisions

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- e. A summary of the storm water activities the Permittee plans to undertake during the next reporting cycle;
 - f. Any proposed change(s) to SWMP along with a justification of why the change(s) are necessary; and
 - g. A change in the person or persons implementing and coordinating SWMP.
- 2. RWQCB may impose additional monitoring requirements, which may include a reporting component. RWQCBs may adopt such requirements on an individual or group basis.
 - 3. Recordkeeping

The Permittee must keep records required by this General Permit for at least five years or the duration of the General Permit if continued. The RWQCB Executive Officer may specify a longer time for record retention. The Permittee must submit the records to the RWQCB Executive Officer upon request. The Permittee must make the records, including the permit and SWMP, available to the public during regular business hours.

G. RWQCB AUTHORITIES

RWQCBs will review and approve SWMPs prior to permit coverage being in effect and will conduct public hearings of individual permit applications upon request. Where there is no hearing, the Executive Officer may approve the SWMP. RWQCBs will also oversee compliance with this General Permit. Oversight may include, but is not limited to, reviewing reports, requiring modification to SWMPs and other submissions, imposing region-specific monitoring requirements, conducting inspections, taking enforcement actions against violators of this General Permit, and making additional designations of Permittees pursuant with the criteria described in this General Permit and Fact Sheet. The RWQCBs may also issue individual permits to regulated Small MS4s, and alternative general permits to categories of regulated Small MS4s. Upon issuance of such permits by an RWQCB, this General Permit shall no longer regulate the affected Small MS4(s).

H. STANDARD PROVISIONS

1. General Authority

Three of the minimum control measures (illicit discharge detection and elimination, and the two construction-related measures) require enforceable controls on third party activities to ensure successful implementation of the measure. Some non-traditional operators, however, may not have the necessary legal regulatory authority to adopt these enforceable controls. As in the case of

local governments that lack such authority, non-traditional MS4s are expected to utilize the authority they do possess and to seek cooperative arrangements.

2. Duty to Comply

The Permittee must comply with all of the conditions of this General Permit. Any permit noncompliance constitutes a violation of CWA and the Porter-Cologne and is grounds for enforcement action and/or removal from General Permit coverage. In the event that the Permittee is removed from coverage under the General Permit, the Permittee will be required to seek coverage under an individual or alternative general permit.

3. General Permit Actions

This General Permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a General Permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not nullify any General Permit condition.

If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under section 307(a) of CWA for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this General Permit, this General Permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition and Permittee so notified.

4. Noncompliance Reporting

Permittees who cannot certify compliance and/or who have had other instances of noncompliance shall notify the appropriate RWQCB within 30 days. Instances of noncompliance resulting in emergencies (i.e., that endanger human health or the environment) shall be reported orally to the RWQCB within 24 hours from the time the discharger becomes aware of the circumstance and in writing to the RWQCB within five days of the occurrence. The notification shall identify the noncompliance event and an initial assessment of any impact caused by the event, describe the actions necessary to achieve compliance, and include a time schedule indicating when compliance will be achieved. The time schedule and corrective measures are subject to modification by the RWQCB Executive Officer.

5. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this General Permit.

6. Duty to Mitigate

The Permittee shall take all responsible steps to minimize or prevent any discharge in violation of this General Permit that has a reasonable likelihood of adversely affecting human health or the environment.

7. Proper Operation and Maintenance

The Permittee shall at all times properly operate and maintain any facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this General Permit and with the requirements of SWMP. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance may require the operation of backup or auxiliary facilities or similar systems installed by the Permittee when necessary to achieve compliance with the conditions of this General Permit.

8. Property Rights

This General Permit does not convey any property rights of any sort or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor does it authorize any infringement of federal, State, or local laws or regulations.

9. Duty to Provide Information

The Permittee shall furnish RWQCB, SWRCB, or U.S. EPA, during normal business hours, any requested information to determine compliance with this General Permit. The Permittee shall also furnish, upon request, copies of records required to be kept by this General Permit.

10. Inspection and Entry

The Permittee shall allow RWQCB, SWRCB, U.S. EPA, or an authorized representative of RWQCB, SWRCB, or U.S. EPA, upon the presentation of credentials and other documents as may be required by law, to:

- a. Enter upon the Permittee's premises during normal business hours where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this General Permit;
- b. Access and copy, during normal business hours, any records that must be kept under the conditions of this General Permit within a reasonable time from notification;

- c. Inspect during normal business hours any municipal facilities; and
- d. Sample or monitor at reasonable times for the purpose of assuring General Permit compliance.

11. Signatory Requirements

All NOIs, SWMPs, certifications, reports, or other information prepared in accordance with this General Permit submitted to SWRCB or RWQCB shall be signed by either a principal executive officer, ranking elected official, or duly authorized representative. The principal executive officer of a Federal agency includes the chief executive officer of the agency or the senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator of U.S. EPA).

12. Certification

Any person signing documents under Section H.11 above shall make the following certification:

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, to the best of my knowledge and belief, the information submitted is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

13. Anticipated Noncompliance

The Permittee will give advance notice to the RWQCB and local storm water management agency of any planned changes in the regulated Small MS4 activity that may result in noncompliance with General Permit requirements.

14. Penalties for Falsification of Reports

Section 309(c)(4) of CWA provides that any person who knowingly makes any false material statement, representation, or certification in any record or other document submitted or required to be maintained under this General Permit, including reports of compliance or noncompliance, shall upon conviction, be punished by a fine of not more than \$10,000 or by imprisonment for not more than two years or by both.

15. Penalties for Violations of Permit Conditions

- a. Part 309 of CWA provides significant penalties for any person who violates a permit condition implementing Parts 301, 302, 306, 307, 308, 318, or 405 of CWA or any permit condition or limitation implementing any such section in a permit issued under Part 402. Any person who violates any permit condition of this General Permit is subject to a civil penalty not to exceed \$27,500 per calendar day of such violation, as well as any other appropriate sanction provided by Part 309 of CWA.
- b. Porter-Cologne also provides for administrative, civil, and criminal penalties, which in some cases are greater than those under CWA.

16. Oil and Hazardous Substance Liability

Nothing in this General Permit shall be construed to preclude the institution of any legal action against the Permittee or relieve the Permittee from any responsibilities, liabilities, or penalties to which the Permittee is or may be subject to under Part 311 of CWA.

17. Severability

The provisions of this General Permit are severable; and, if any provision of this General Permit or the application of any provision of this General Permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this General Permit shall not be affected thereby.

18. Reopener Clause

This General Permit may be modified, revoked and reissued, or terminated for cause due to promulgation of amended regulations, or otherwise in accordance with 40 CFR sections 122.62, 122.63, 122.64, and 124.5.

19. Availability

A copy of this General Permit and SWMP shall be made available for public review.

20. Transfers

This General Permit is not transferable. A Permittee must submit written notification to the appropriate RWQCB to terminate coverage of this General Permit.

21. Continuation of Expired Permit

This General Permit expires five years from the date of adoption. This General Permit continues in force and in effect until a new General Permit is issued or the SWRCB rescinds this General Permit. Only those Small MS4s authorized to discharge under the expiring General Permit are covered by the continued General Permit.

CERTIFICATION

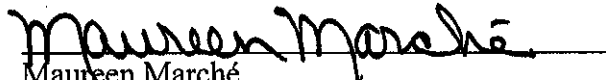
The undersigned, Clerk to the Board, does hereby certify that the foregoing is a full, true, and correct copy of an order duly and regularly adopted at a meeting of SWRCB held on April 30, 2003.

AYE: Arthur G. Baggett, Jr.
Peter S. Silva
Richard Katz
Gary M. Carlton

NO: None

ABSENT: None

ABSTAIN: None


Maureen Marché
Clerk to the Board

Appendix B Supplemental Information

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B.1 CAMPUS FACILITY DRAINAGE

Central Campus

The central campus includes most of the developed resources on campus, including the majority of academic and administrative uses, housing areas, recreational facilities, parking and support facilities. The total drainage area of the central campus is approximately 900 acres and is bounded by I-80, SR 113, Russell Boulevard, 1st Street and A Street in the downtown core area of the City of Davis, and by the Union Pacific Railroad. A map of central campus is shown in **Figure B-1**.



Figure B-1. UC Davis Central Campus

The central campus drainage system, involving a system of underground pipes ranging up to 52 inches in diameter, intercepts and collects runoff and transports this water south to the Arboretum Waterway. At full capacity, the Arboretum Waterway can contain approximately 1.8 million cubic feet of water. The primary water source to the Arboretum Waterway is tertiary-

treated water from the campus wastewater treatment plant and stormwater runoff from the central campus; other water sources include landscape runoff and direct precipitation.

During large storm events, water rises in the Arboretum Waterway, overtops the weir at the west end of the waterway, and flows into the pump pond located north of the weir. From the pump pond, water is pumped through an underground storm drain to the South Fork of Putah Creek. The pump pond also receives stormwater drainage directly from a drain serving the Health Sciences District. During large storm events, the pump pond also receives water from the North Fork Cutoff via a siphon that crosses under SR 113.

The Arboretum Waterway is also known as the North Fork of Putah Creek. In 1948, the Army Corps of Engineers channeled Putah Creek to the Yolo Bypass, south of the City of Davis and the Davis campus, leaving the existing North Fork to be used exclusively by UC Davis. UC Davis converted the old North Fork into a drainage basin and arboretum area. A pumping plant was installed to discharge stormwater from the Arboretum Waterway to the South Fork of Putah Creek. A permit was obtained for the discharge point from the California State Board of Reclamation (Permit Number 5556, issued on October 25, 1966) allowing a maximum discharge rate of 130 cubic feet per second (cfs). The existing pumping plant consists of six pumps with a capacity of approximately 120.3 cfs. The North Fork of Putah Creek, west of SR-113, is referred to as the “North Fork Pond”. The North Fork Pond is connected to the Pump Pond by an existing 24-inch reinforced concrete pipe siphon running under SR-113. This siphon drains a relatively small portion of West Campus, west of SR-113.

West Campus

Uses on the west campus include agricultural land for teaching and research, support facilities such as the UC Davis Airport and the campus landfill, and academic and administrative buildings. The total drainage area of the west campus is approximately 2,200 acres and is bounded by Russell Boulevard to the north, SR 113 to the east, Putah Creek to the south, and privately owned agricultural lands to the west. The existing topography slopes from southwest to northeast with a high elevation of 75 feet near the southwest corner of the campus, to a low of 55 feet near the corner of Russell Boulevard and Highway 113. The majority of the area consists of agricultural fields except for the 450-acre area around the UC Davis Airport, which includes various research facilities.

The majority of land in the west campus is used as teaching and research fields and is not drained by a storm drainage system. Irrigation practices in the west campus typically do not generate surface runoff. However, large storm events may result in shallow overland flows. Campus stormwater drainage improvements at the California National Primate Research Center (CNPRC) improved storm drainage capacity in this area. The CNPRC improvements were completed in 2006 and include a detention basin to mitigate flooding by a 100-year storm events, and a retention basin to prevent offsite flows of runoff from animal cage areas.

An approximately 450-acre developed area within the west campus near Hopkins Road (including the UC Davis Airport) is served by a storm drainage pipe system that conveys discharge directly to the Putah Creek. Drainage that flows to the North Fork Cutoff ponds towards the east of the channel and, during large storm events is siphoned under SR 113 to the pump pond at the east end of the Arboretum Waterway.

South Campus

Uses on the south campus include agricultural land for teaching and research, animal pastures, academic and administrative research buildings, and support facilities such as the campus Wastewater Treatment Plant (WWTP) and an electrical substation. The total drainage area of south campus is approximately 600 acres south and east of I-80, north of Putah Creek, and west of privately owned agricultural lands. The existing topography slopes from northwest to southeast with a high elevation of 55 feet and a low elevation of 50 feet.

The south campus slopes gently to the southeast. The area west of Old Davis Road in the south campus is primarily used for field teaching and research activities. Irrigation practices associated with these activities typically do not generate surface runoff. During storm events, stormwater collects, causing local ponding that either percolates or evaporates.

Stormwater runoff from much of the low-density developed areas located east of Old Davis Road drains to a ditch located near the Union Pacific Railroad Tracks. This ditch retains water and eventually discharges through a culvert to the South Fork of Putah Creek. In addition, one minor drainage system drains runoff from buildings and parking areas within the Center for Health and The Environment (CHE) located east of Old Davis Road. This drainage is conveyed to a ditch along Old Davis Road that drains to Putah Creek. Another minor system drains stormwater runoff from buildings and paved areas located just east of CHE. Stormwater runoff from most of the South Campus Disposal Site ponds and infiltrates. Runoff from portions to two inactive landfills at SCDS discharges to Putah Creek via the drainage systems described above. Runoff from paved areas within the WWTP facility is treated as wastewater.

B.2 CLIMATE AND RAINFALL

Average high temperatures for Davis range from 54 degrees Fahrenheit (°F) in the winter, to 91°F in the summer. Average low temperatures range from 34°F in the winter to 52°F in the summer. UC Davis receives a moderate amount of annual rainfall, primarily occurring during December, January, and February. Seasonal precipitation on campus varies widely between 7 and 30 inches, with an annual average of less than 17 inches per year.

B.3 LOCAL SOIL CONDITIONS

The *Soil Survey of UCD*, published in 1981 by the UC Davis Land, Air, and Water Resources Department (LAWR), identified five major soil types in the campus area. This survey evaluated primarily the west and south campus areas, totaling 2,764 acres. An additional but less detailed survey was conducted in 1952 by the Soil Conservation Service, which evaluated the central campus area totaling 850 acres. The prevalence of major soil types identified in both surveys is summarized in **Table B-1**.

Table B-1. Soil Types in West, South, and Core Campus Area Surveyed

Soil Type	Estimated Acres of Soil Type in West, South, and Core Campus Area Surveyed	Percent of West, South, and Core Campus Area Surveyed with Soil Type
Brentwood Series	68	2%
Capay Series	322	9%
Reiff Series	943	26%
Yolo Series	1,764	49%
Zamora Series	133	4%
Total	3,230	90%

In addition to the five major soil series identified, an additional soils identifier was given as “Urban Lands”. This category includes disturbed lands, paved areas, or fill and graded areas. These lands comprise about 12% of the total area surveyed. Soils within the Urban Lands designation are not described below because their soil characteristics are highly variable or, in the cases of paved areas, not applicable.

Distribution

The Capay soil series lie mostly to the West of County Road 98, the Brentwood series lie between Hopkins and Road 98. Zamora series lie to the north of Hutchison Road, with Reiff and Yolo series comprising the remainder of the campus lands.

Physical Characteristics

All five soil series consist of deep, well-drained to moderately well-drained alluvial soils derived from sedimentary rock sources. The landforms in which they are found are relatively uniform. All have been derived from similar parent materials and are found within the same temperature and moisture regimes. Thus, their physical characteristics differ little in regard to erosivity, infiltration, and permeability.

Runoff Potential and Erosion Susceptibility

All soil series identified are deep (>60 inches) and are medium to fine textured. As such, infiltration and water transmission rates are moderate to slow when the soil column is thoroughly wetted. The runoff potential for all major soil series (except for the Capay series) is moderate, with the Capay series possessing a high runoff potential.

All five soil series have a moderate susceptibility to sheet and rill erosion by rainfall and runoff water. This rating is based on soil texture, organic matter content and soil structure. Capay soils, although possessing a higher runoff potential than the other soil series, are still ranked as having a moderate susceptibility to erosion. This is attributed to the fact that its uppermost soil horizons contain higher percentages of clay. It should be noted that erosion susceptibility estimates contained within the surveys were based on soils without protective vegetation and the application of other common soil conservation practices. Thus, given more favorable conditions, the susceptibility of a soil type to erosion can be significantly lessened.

B.4 OFF CAMPUS UNIVERSITY FACILITIES

Research Park Area, Davis, CA

Research Park is located in south Davis, Yolo County. The Research Park area includes off-campus resources to include primarily administrative uses, parking, support facilities and some research. In general, parking lots drain to the city storm sewer system. Facilities are shown in **Figure B-2**. The following buildings are located within the Research Park Area:

- University Extension Building
- University Services Building Garage East
- University Services Building Garage West
- University Services Building
- Bookstore Warehouse
- Center for Neuroscience
- Neuroscience Building

University-owned off campus student housing, Davis, CA

This area is comprised of several University-owned off campus student housing located in the City of Davis, Yolo County. These facilities provide off-campus housing for approximately 1200 students. In general, parking lots drain to the city storm sewer system. Facilities are shown in **Figure B-2**. The student housing units consist of the following facilities:

- Castillian Commons
- Castillian 1460
- Castillian 1440
- Emerson Hall
- Webster Hall
- Oxford Circle Commons

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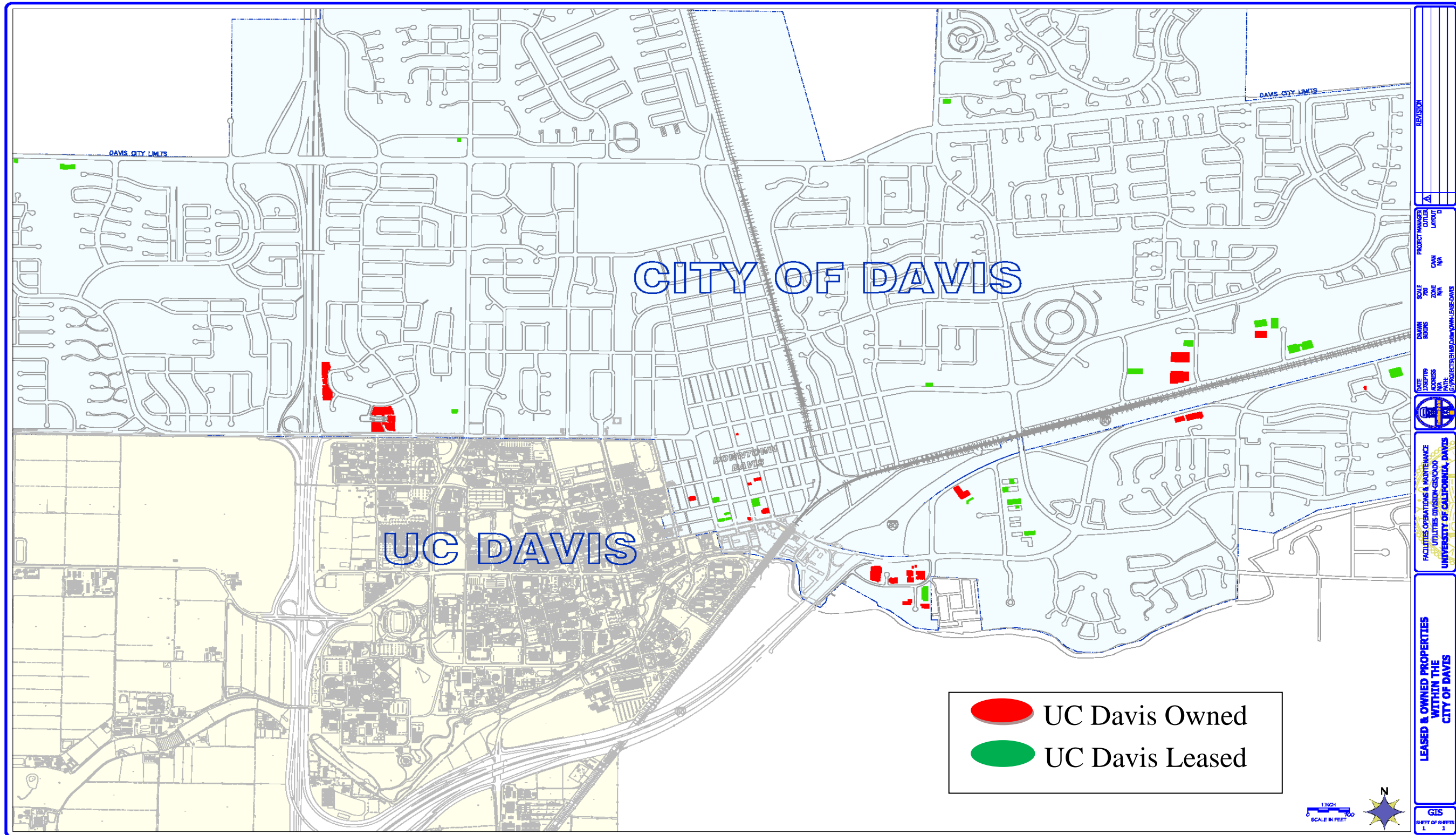


Figure B-2. University Off-Campus Facilities in Davis, CA

B.5 PATH AND STREET SWEEPING MAPS

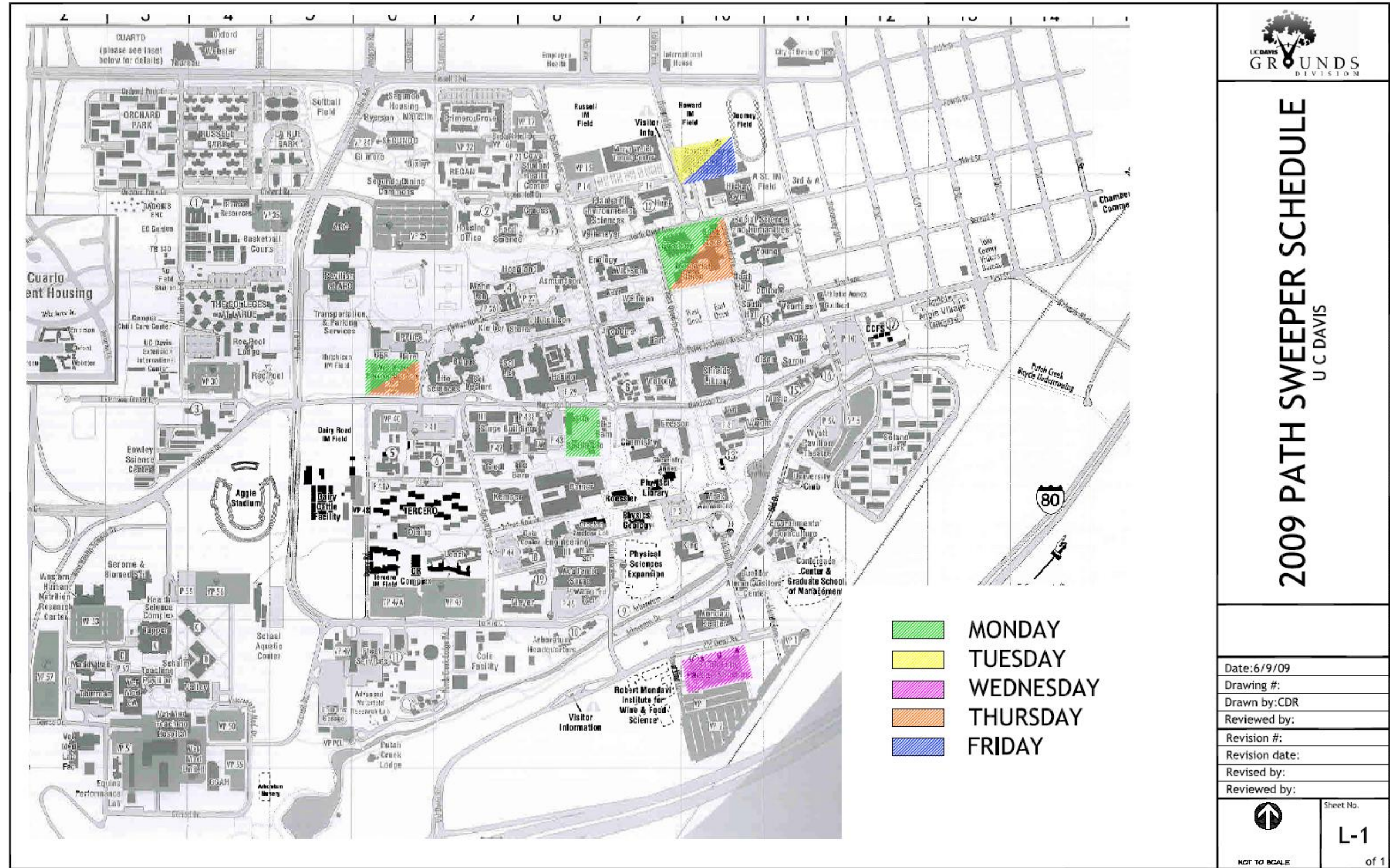


Figure B-3. UC Davis Path Sweeping Map

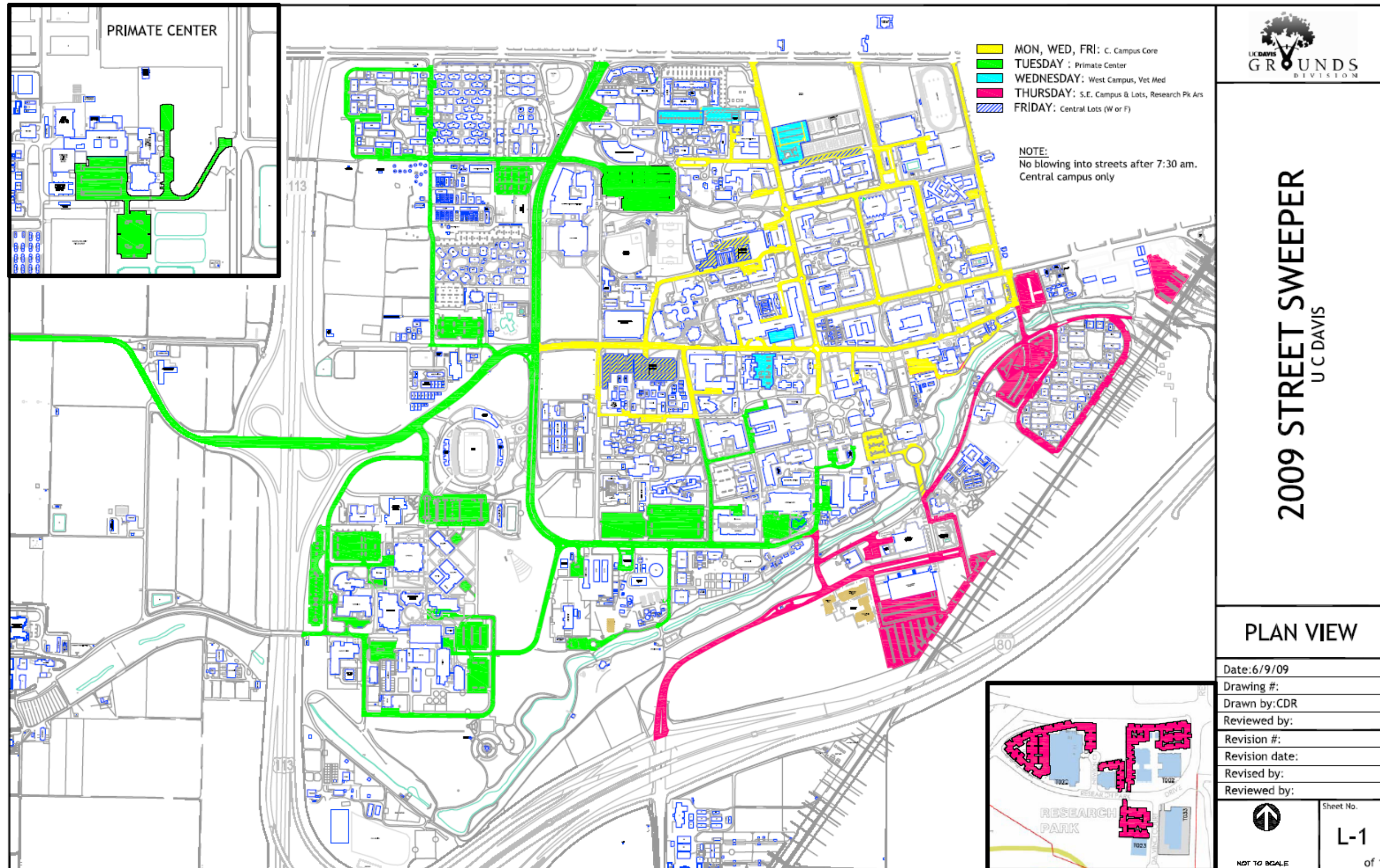


Figure B-4. UC Davis Street Sweeping Map

B.6 2009 UC DAVIS UTILITIES SYSTEM SCHEMATICS STORM DRAINS

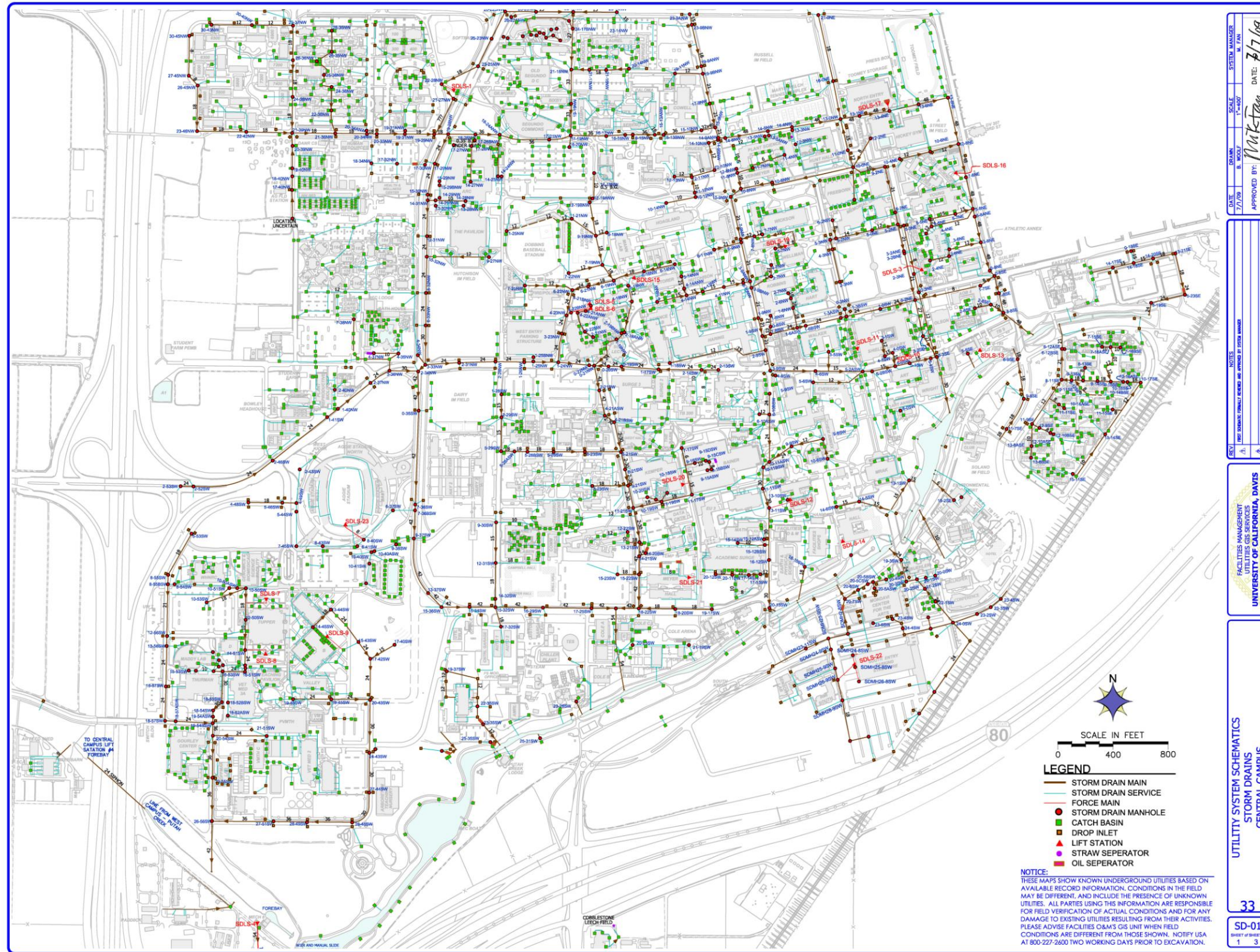


Figure B-5. UC Davis Central Campus Storm Drains

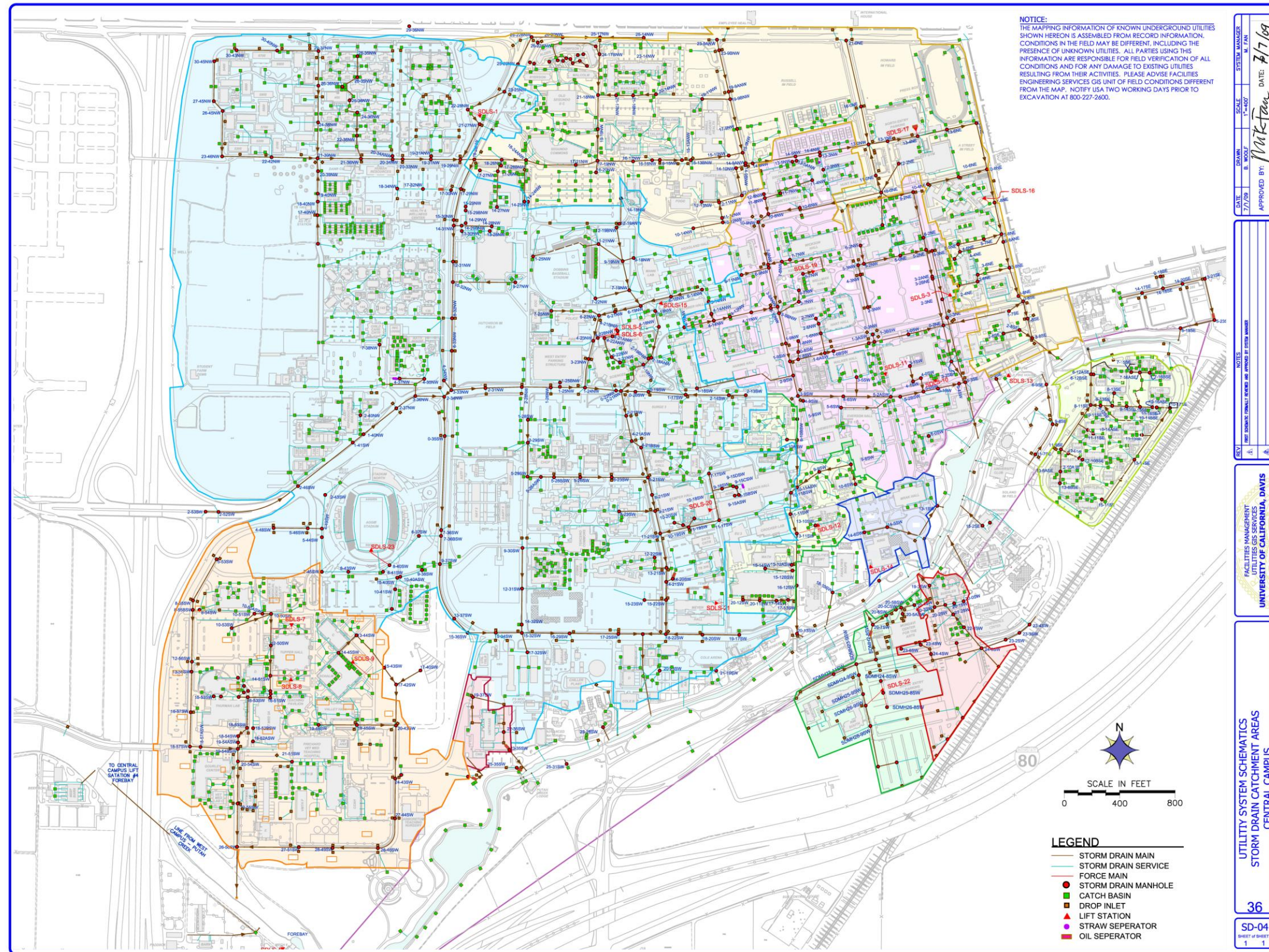


Figure B-6. UC Davis Central Campus Storm Drain Catchment Areas

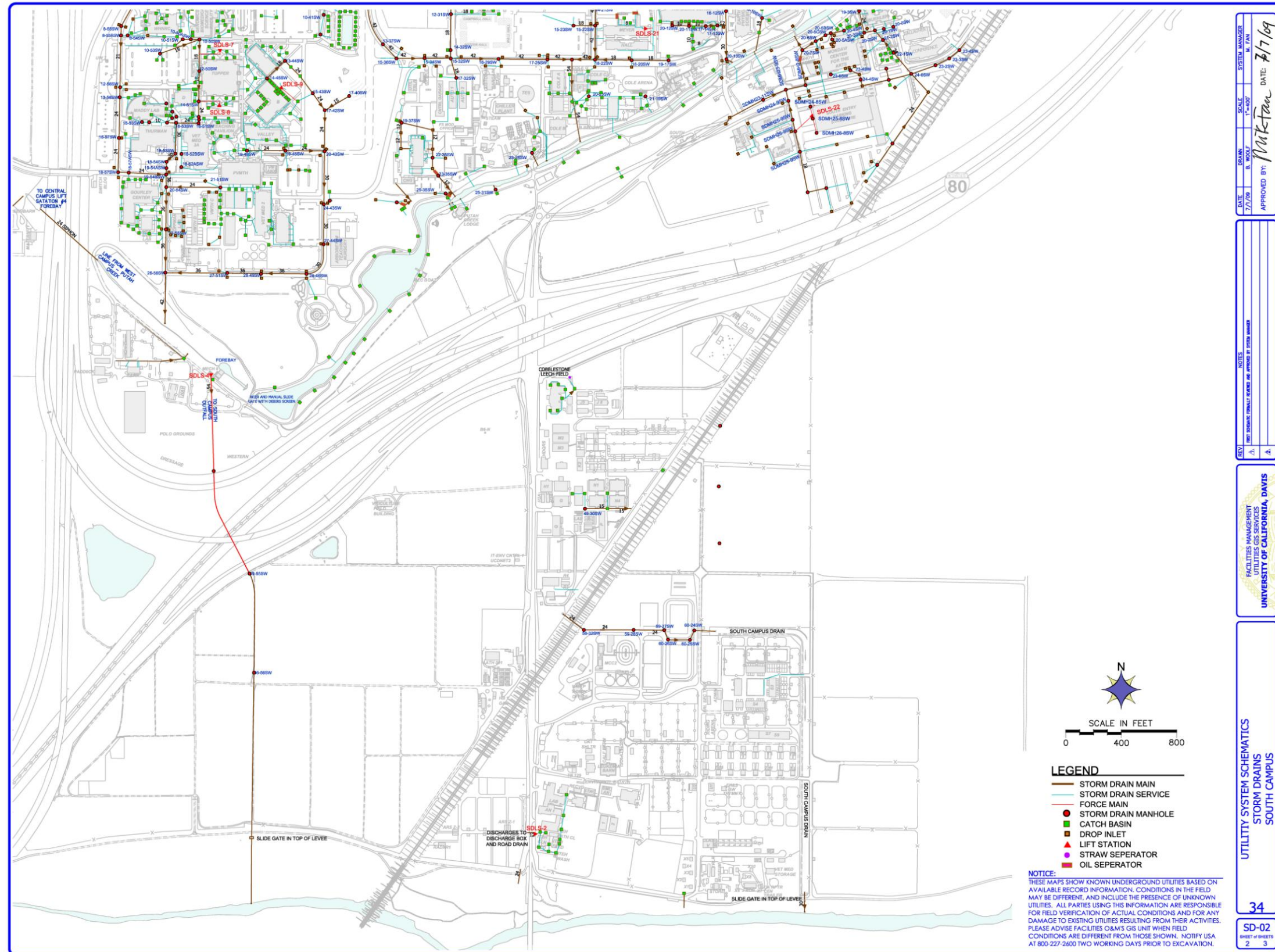


Figure B-7. UC Davis South Campus Storm Drains

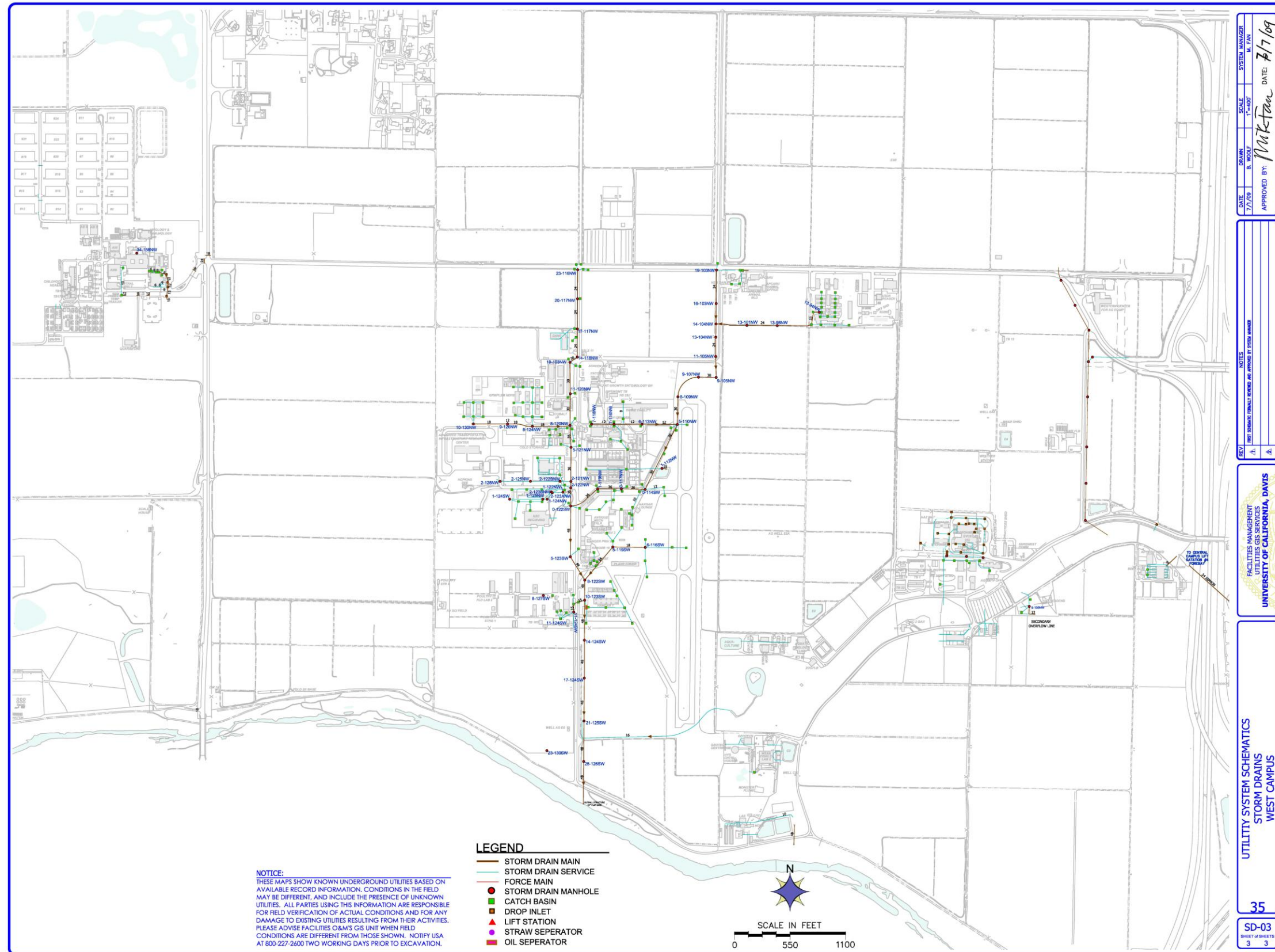


Figure B-8. UC Davis West Campus Storm Drains