



Caltrans Construction Stormwater Pollution Prevention Training

**Water Pollution Control
Contract Administration,
Inspection & Maintenance
on Construction Sites**

Module 3

Introduction: Your Facilitators

- ➔ Who am I?
- ➔ What is my background?
- ➔ What is my stormwater background?

Introduction: About You

- ➔ Who are you?
- ➔ What is your stormwater background?
- ➔ What do you want to learn from this class?

Introduction: Course Administration

- ➔ Sign-in/Attendance Forms
- ➔ Breaks
- ➔ Restrooms
- ➔ Emergency Exits
- ➔ Classroom Etiquette

RE Responsibilities Before Construction

→ Course Highlights

- ⇒ **RE Responsibilities Before Construction**
- ⇒ Standard Special Provisions (SSPs)
- ⇒ RE Responsibilities During Construction
- ⇒ Project Closeout Responsibilities
- ⇒ Inspection Procedures
- ⇒ Mock Inspection
- ⇒ Maintenance of BMPs
- ⇒ Communication



RE Responsibilities Before Construction

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- ➔ Mock Inspection
- ➔ Maintenance of BMPs
- ➔ Communication

➔ Visit Jobsite

➔ Review the RE Pending File

➔ Appoint your SWPPP Inspector

➔ Conduct Pre-Construction Meetings

➔ WPC Strategies

➔ Review and Approve SWPPP

Review the RE Pending File

Information Handout items that may be provided:

- ➔ Vicinity Map
- ➔ Soils/Geotechnical or Project Materials Report or other Reports
- ➔ List of Pre-Construction Stormwater Quality Control Practices
- ➔ List of Permanent Post-Construction Stormwater Control Measures



Review the RE Pending File

Information Handout items that may be provided (Cont.):

- ➔ Layout Sheets showing suggested BMP locations
- ➔ Explanation of Construction Site BMPs
- ➔ Drainage Information
- ➔ Construction Site Estimates
- ➔ Storm Water Data Report (SWDR)
- ➔ Copy of Submitted Notice of Construction (NOC)
- ➔ Site-specific Inspection Sheet
- ➔ Other Plans and Permits
- ➔ Other Information



What If RE Pending File is Incomplete?

- ➔ Determine whether documentation is necessary
 - ⇒ Not all projects need all listed contents of a pending file
- ➔ Whether post construction BMPs are required should come from project development
- ➔ Contact the responsible party to obtain missing documentation



What If RE Pending File is Incomplete?

- ➔ **Call or meet with Project Development, CSWC, Project Manager**
- ➔ **Obtain missing documentation from outside source**
 - ⇒ Contractor

RE Responsibilities Before Construction

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→ **Appoint your SWPPP Inspector**

→ Conduct Pre-Construction Meetings

→ WPC Strategies

→ Review and Approve SWPPP

Appoint The SWPPP Inspector

- ➔ The project SWPPP inspector reports to the RE
- ➔ Desirable candidate qualifications:
 - ⇒ Construction inspection experience
 - ⇒ Overall project knowledge
 - ⇒ SWPPP inspector training
 - ⇒ Hydraulics or environmental engineering knowledge



RE Responsibilities Before Construction

⇒ Course Highlights

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- ⇒ Communication

- ⇒ Visit Jobsite
- ⇒ Review the RE Pending File
- ⇒ Appoint your SWPPP Inspector
- ⇒ **Conduct Pre-Construction Meetings**
- ⇒ WPC Strategies
- ⇒ Review and Approve SWPPP

Pre-Construction Meetings

- ➔ State Personnel
- ➔ Contractor Meeting



State Personnel Meeting

⇒ Who should attend?

⇒ RE

⇒ Appointed SWPPP inspector

⇒ Project Manager

⇒ Project Engineer

⇒ Environmental Engineer

⇒ Maintenance Representative

⇒ CSWC

⇒ Structures Personnel

⇒ RWQCB Representative (Invitation Required)

State Personnel Meeting

- ⇒ Discuss project-specific water pollution control issues
 - ⇒ Other plans and permits
 - ⇒ Environmentally sensitive areas
 - ⇒ Special Provision requirements
 - ⇒ The conceptual SWPPP – if applicable
 - ⇒ RE Pending File information

Contractor Meeting

➔ Who should attend?

- ➔ RE
- ➔ Contractor's Superintendent
- ➔ Contractor's Water Pollution Control Manager (WPCM)
- ➔ Contractor's SWPPP Preparer
- ➔ Appointed SWPPP Inspector
- ➔ CSWC
- ➔ RWQCB Representative (Invitation required)



- ## ➔ This water pollution control meeting can be integrated into the typical pre-construction meeting with the contractor, but is not recommended

Contractor Meeting

- ⇒ Discuss project-specific water pollution control issues
 - ⇒ Other plans and permits
 - ⇒ Environmentally sensitive areas
 - ⇒ Coordination of Special Provision requirements
 - ⇒ The conceptual SWPPP (if applicable)
 - ⇒ RE Pending File information

RE Responsibilities Before Construction

⇒ Course Highlights

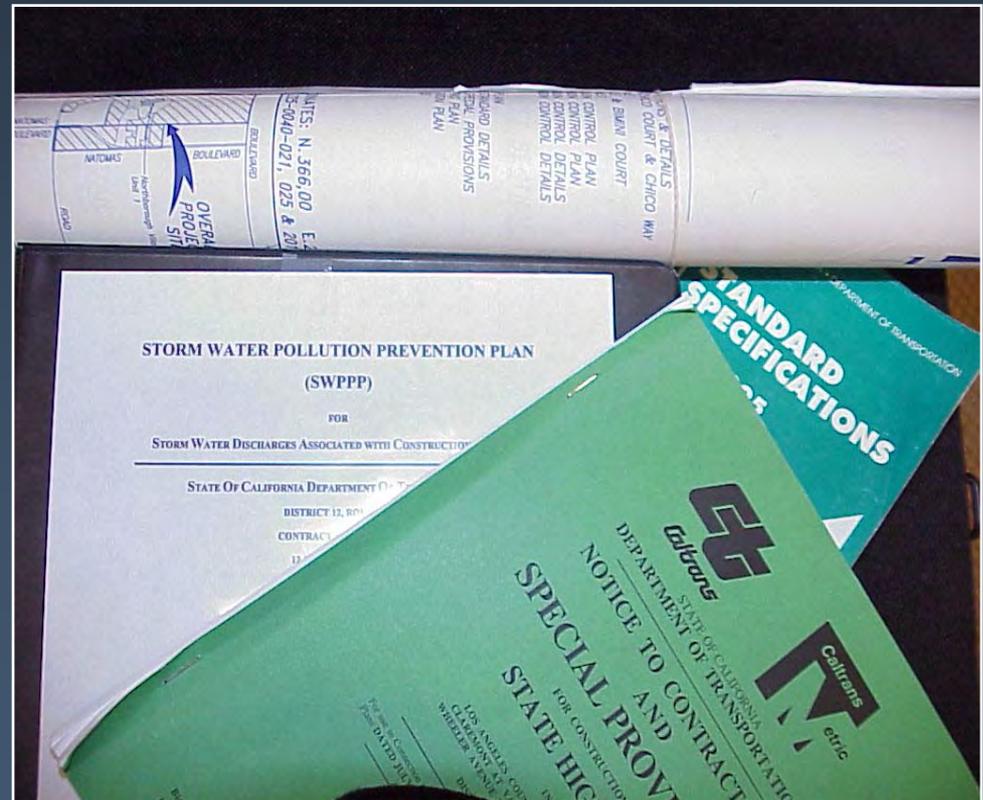
⇒ RE Responsibilities Before Construction

- ⇒ Standard Special Provisions (SSPs)
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- ⇒ Mock Inspection
- ⇒ Maintenance of BMPs
- ⇒ Communication

- ⇒ Visit Jobsite
- ⇒ Review the RE Pending File
- ⇒ Appoint your SWPPP Inspector
- ⇒ Conduct Pre-Construction Meetings
- ⇒ **WPC Strategies**
- ⇒ Review and Approve SWPPP

Contract Documents

- ➔ Standard Specifications
- ➔ Contract Special Provisions
- ➔ Project Plans
- ➔ Standard Plans



Standard Specifications

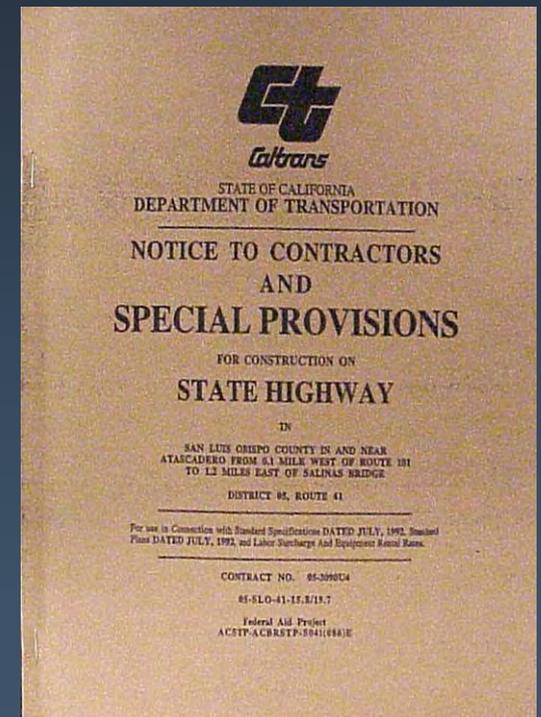
- ➔ **Section 7-1.01G, Water Pollution**
- ➔ **Section 10, Dust Control**
- ➔ **Section 16, Clearing and Grubbing**
- ➔ **Section 18, Dust Palliative**
- ➔ **Section 20, Erosion Control and Highway Planting**



Contract Special Provisions

➔ Section 10-1. Water Pollution Control

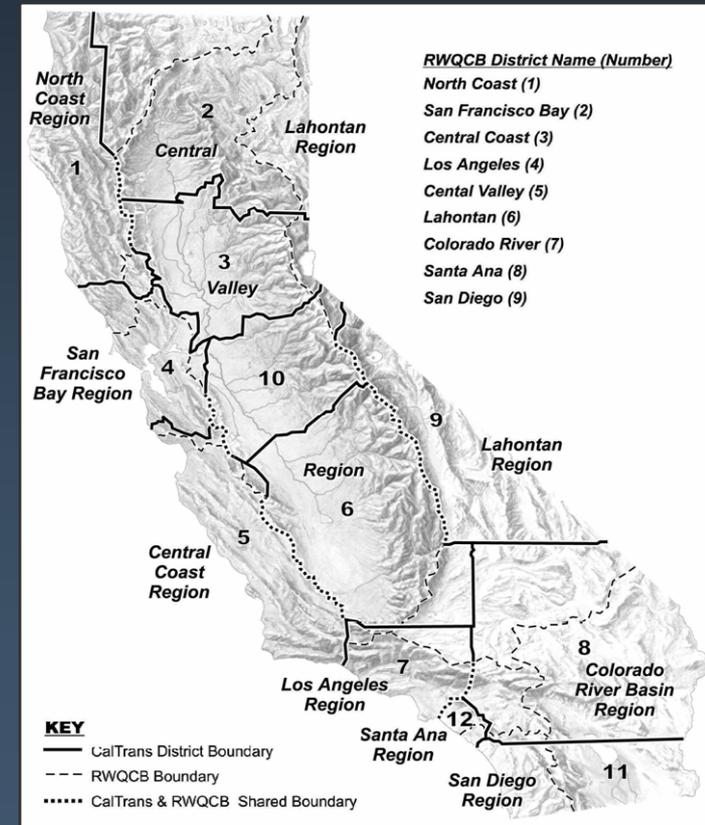
- ➔ Issued to satisfy the NPDES Permit requirements
- ➔ Requires use of the Storm Water Quality Handbooks
- ➔ Details water pollution control requirements
- ➔ **Recent Major Revisions**



Contract Special Provisions

➔ Contents of Water Pollution Control Specifications

- ➔ Identifies plan required (SWPPP or WPCP)
- ➔ Identifies appropriate RWQCB
- ➔ The SWPPP/WPCP contents and approval process
- ➔ Additional required BMPs
- ➔ Year round requirements



Contract Special Provisions

⇒ Contents of Water Pollution Control Specifications (Cont.)

- ⇒ Defines maximum active DSAs during the rainy season
- ⇒ Inspection and maintenance requirements

Contract Special Provisions

➔ Contents of Water Pollution Control Specifications (Cont.)

- ⇒ Winter Shutdown (if applicable)
- ⇒ Sampling and Analytical Requirements
- ⇒ Analytical Results and Evaluation
- ⇒ Move-In/Out for Permanent Erosion Control
- ⇒ 50/50 BMP Maintenance Sharing
- ⇒ Progress Payments/Detention/Retention

Standard Special Provisions (SSPs)

➔ Course Highlights

- ⇒ RE Responsibilities Before Construction
- ⇒ **Standard Special Provisions (SSPs)**
- ⇒ RE Responsibilities During Construction
- ⇒ Project Closeout Responsibilities
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- ⇒ Mock Inspection
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- ⇒ Communication



BMP Standard Special Provisions (SSPs)

- ➔ *Introduction*
- ➔ BMP Standard Special Provisions (SSPs)
- ➔ Challenges

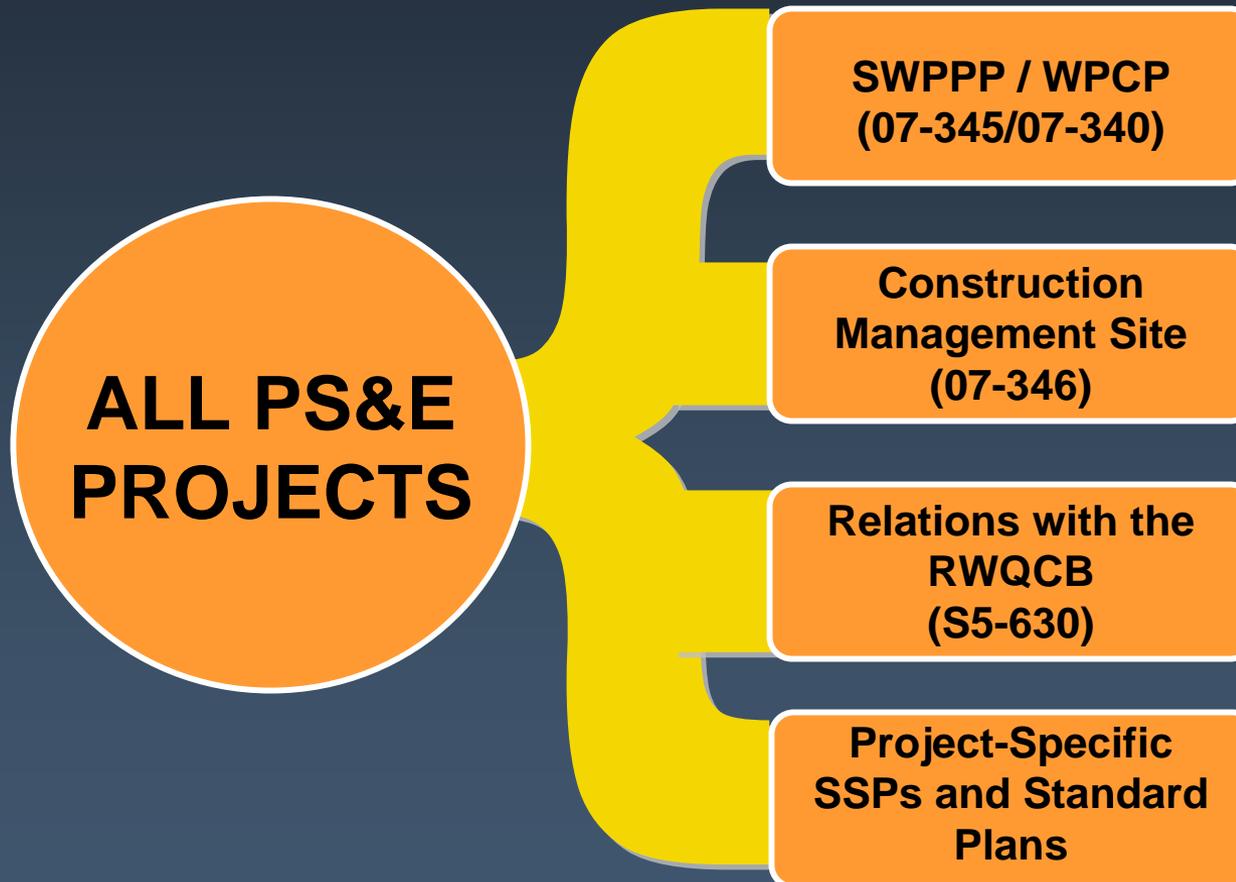
Reasons for recent revisions to SSPs

- ➔ **Inconsistent implementation of separate contract items Statewide**
- ➔ **Difficulties in estimating lump sums**
- ➔ **Permit compliance vs. contract conformance**
- ➔ **Inadequate bids**
- ➔ **Difficulties in contract enforcement**

BMP Standard Special Provisions (SSPs)

- ➔ Introduction
- ➔ *BMP Standard Special Provisions (SSPs)*
- ➔ Challenges

BMP Standard Special Provisions (SSPs)



BMP Standard Special Provisions (SSPs)

23 Construction Site BMP Items

SSP No.	Cost Code	SSP Description	Standard Plan	Detail or Plan
S5-760 E	071325	Environmentally Sensitive Area	(None)	(No Detail)
07-340 E	074020	Water Pollution Control (WPCP)	(None)	(No Detail)
07-345 E	074020	Water Pollution Control (SWPPP)	(None)	(No Detail)
07-346 E	074016	Construction Site Management	(None)	(No Detail)
07-350 E	074023	Temporary Erosion Control	(None)	(No Detail)
07-360 E	074041	SC-7, Street Sweeping	(None)	(No Detail)
07-380 E	074026	SS-8, Temporary Mulch	(None)	(No Detail)
07-381 E	074040	SS-3, Temp. Hydraulic Mulch (Bond Fiber Matrix)	(None)	(No Detail)
07-382 E	074039	SS-3, Temp. Hydraulic Mulch (Polymer Stabilized Fiber Matrix)	(None)	(No Detail)
07-390 E	074027	SS-7, Temporary Erosion Control Blanket	T54/55	Details 1 & 2
07-395 E	074034	SS-7, Temporary Cover	T53	Detail
07-405 E	074032	WM-8, Temporary Concrete Washout Facility	T59	Detail
07-406 E	074042	WM-8, Temporary Concrete Washout (Portable)	(None)	(No Detail)
07-415 E	074035	SC-4, Temporary Check Dam	T57	Detail
07-420 E	074028	SC-5, Temporary Fiber Roll	T56	Detail
07-430 E	074029	SC-1, Temporary Silt Fence	T51	Detail
07-446 E	071325	Temporary Fence (Type ESA)	(None)	Detail
07-460 E	074036	SC-9, Temporary Straw Bale Barrier	T52	Detail
07-470 E	074031	SC-6, Temporary Gravel Bag Berm	(None)	(No Detail)
07-480 E	074033	TC-1, Temporary Construction Entrance	T58	Detail
07-485 E	074037	Move-In/Move-Out (Temporary Erosion Control)	(None)	(No Detail)
07-490 E	074038	SC-10, Temporary Drainage Inlet Protection	(None)	Details 1 – 4
20-020 E	203026	Move-In/Move-Out (Erosion Control)	(None)	(No Detail)

BMP Standard Special Provisions (SSPs)

➔ NSSPs

SSP No.	SSP Description	Detail or Plan
19-010E	Earthwork “Trackwalking”	(No Detail)
07-495E	Temporary Creek Diversion System	Detail
07-436E	Temporary Sediment Basin	Detail
07-421E	Temporary Large Sediment Barrier	Detail
07-360E	Street Sweeping “Bridge Work”	(No Detail)
07-481E	Temporary Construction Roadway	Detail
07-432E	Temporary Reinforced Silt Fence (Type 1)	(No Detail)

BMP Standard Special Provisions (SSPs)

- ➔ Introduction
- ➔ BMP Standard Special Provisions (SSPs)
- ➔ *Challenges*

Challenges

- ➔ Missing BMPs
- ➔ Verify Installed Quantities
- ➔ Expect more CCOs
- ➔ REs should provide feedback on implementation and enforcement problems
- ➔ Carefully review SWPPPs and look for missing/needed BMPs
- ➔ More coordination with contractor at SWPPP review phase

Construction Procedure Directives

⇒ Construction Procedure Directives (CPDs)

CPD 01-8

New SWPPP Requirements & CCO Guidelines

➔ CPD 01-8 summarizes 2001 SWMP revisions that:

- May affect RE responsibilities for construction stormwater protection
- May require an amendment to the SWPPP for the construction site

➔ CPD 01-8 provides CCO guidelines to comply with 2001 SWMP

State of California

Business Transportation and Housing Agency

Memorandum

To: ALL CONSTRUCTION SENIORS and ABOVE
ALL RESIDENT ENGINEERS

Date: July 20, 2000

File: Division of Construction
CPD 01-8

From: DEPARTMENT OF TRANSPORTATION
CONSTRUCTION PROGRAM, MS 44

Subject: New Storm Water Pollution Prevention Plan (SWPPP) Requirements Pursuant to the National Pollutant Discharge Elimination System (NPDES) Permits for Caltrans & Contract Change Order (CCO) Guidelines for Construction

The attached contract change order (CCO) guidelines are to be used to comply with Caltrans *Statewide Storm Water Management Plan* (SWMP) which was approved by the State Water Resources Control Board (SWRCB) on May 19, 2001. Caltrans SWMP is a requirement of Caltrans *National Pollutant Discharge Elimination System (NPDES) Statewide Storm Water Permit* (Caltrans NPDES Permit) issued by the State Water Resources Control Board (SWRCB).

This document summarizes the May 2001 SWMP revisions that (1) may affect the resident engineer's responsibilities for storm water protection on the construction site and/or (2) may require an amendment to the Storm Water Pollution Protection Plan (SWPPP) for the construction site. This document also provides instructions for issuing CCOs to bring on-going construction projects into compliance with the May 2001 SWMP. A separate Construction Program Directive (CPD) may be issued for current construction projects that require Water Pollution Control Programs (WPCPs).

Projects that are located in the Lahontan Regional Water Quality Control Board's jurisdiction must complete the implementation of this CPD by August 1, 2001, the implementation date for a new rainy season. All other CCOs should be completed by September 30, 2001. If you are unsure if your project requires a CCO, please contact your district construction storm water coordinator.

The CCOs for this CPD do not require Federal Highway Administration (FHWA) approval. The FHWA granted a prior blanket approval for all CCOs issued pursuant to this CPD on October 10, 2000. A copy of this approval is attached. In addition, the Division of Construction's review and approval will follow established requirements and procedures as identified in the *Construction Manual*.

An electronic Microsoft Word version copy of the change order guidelines including the checklist and templates are available on the Division of Construction's Intranet site at: <http://roadware.dot.ca.gov> or from your district construction storm water coordinator.

- ➔ **Material Safety Data Sheets (MSDSs) required for all hazardous materials used on Caltrans job sites**
- ➔ **Contractor must provide MSDSs to RE for each product intended for use**
- ➔ **Per Cal-OSHA, MSDSs “shall be maintained and kept in a readily accessible area”**
- ➔ **Key sources of MSDS information available on the internet**

State of California

Business, Transportation and Housing Agency

Memorandum

To: DEPUTY DISTRICT DIRECTORS, Construction
SENIOR CONSTRUCTION ENGINEERS
RESIDENT ENGINEERS

Date: March 12, 2002

File: Division of Construction
CPD 02-4

From: DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION - MS 44

Subject: Hazardous Materials Internet Information

BACKGROUND

Material Safety Data Sheets (MSDSs) are required for all hazardous materials used on the Department of Transportation's construction job sites. Copies of the MSDS for each material/product must be maintained by the resident engineer and carried in the field by employees who may be exposed to risk from these materials and products.

The contractor is required to provide a MSDS to the resident engineer for each product intended for use on the job site. After the contractor submits the required MSDS, the California Occupational Safety and Health Administration (Cal-OSHA) further requires that the MSDS "shall be maintained and kept in a readily accessible area." For the Division of Construction, this means that all MSDSs for the hazardous substances have to be available to the resident engineer, field inspectors, materials testers, construction surveyors, and any staff who may potentially be exposed to the hazardous material at the time it is used on the construction project. All MSDSs should be placed in a centralized MSDS binder or file. In addition to the compliance requirements, MSDSs should be current. This requires that they be updated regularly since they provide useful and necessary information on the properties of the chemicals and chemical products used on our construction projects. Anyone who may come into contact with hazardous materials must be familiar with the hazards, physical properties (flammability, corrosiveness, reactivity, toxicity), storage requirements, and handling information of the chemicals they are working around. It is vital for the personal safety that all personnel who may be exposed to these risks have access to the MSDS immediately in the event of an emergency such as a spill, fire, or physical contact with the chemical.

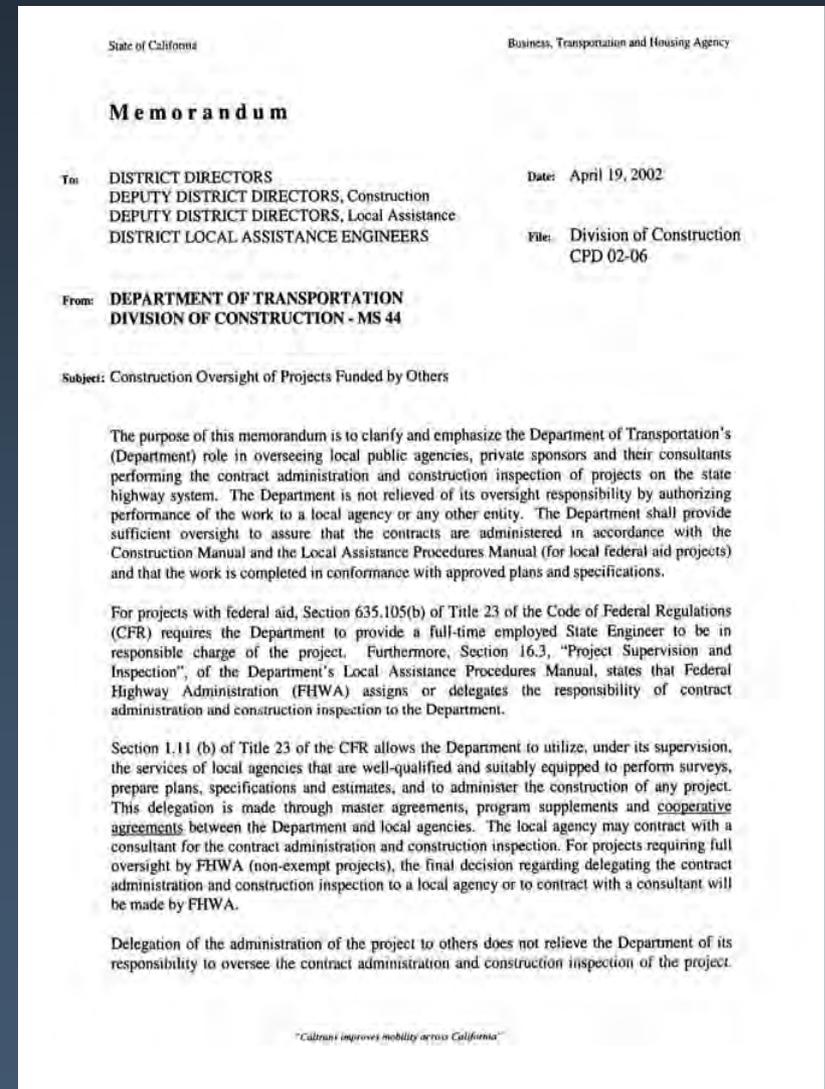
INTERNET SOURCES OF INFORMATION

There are key sources of MSDS information available on the Internet. The information these sites provide could be critical in the event the contractor fails to provide an MSDS or should additional information or clarification be required.

CPD 02-06

Construction Oversight of Projects Funded by Others

- ➔ Caltrans is not relieved of its oversight responsibility by authorizing work to a local agency or other entity
- ➔ For projects with federal aid, Caltrans must provide a full-time State Engineer to be in responsible charge of the project
- ➔ Delegation of the administration of the project to others does not relieve Caltrans of its responsibility to oversee the contract administration and construction inspection of the project



CPD 02-7

Water Pollution Control Inspections for Off-Site Contractor Activities

- ➔ The RE must inspect the contractor's operations for compliance with the specifications of the approved SWPPP or WPCP, including the deployment of BMPs
- ➔ The SWPPP, including conducting inspections, shall apply to all areas, whether or not they reside within Caltrans ROW, directly related to Caltrans construction projects
- ➔ Example sites may include staging areas, equipment storage yards, material borrow site, access roads, concrete batch plants, etc

State of California
DEPARTMENT OF TRANSPORTATION

Business, Transportation and Housing Agency

Memorandum

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To: DEPUTY DISTRICT DIRECTORS, Construction
CONSTRUCTION MANAGERS
SENIOR ENGINEERS, Construction
RESIDENT ENGINEERS, Construction

Date: September 23, 2002

File: CPD 02-7

From: ROBERT PIEPLOW
Chief
Division of Construction - MS 44

Subject: Water Pollution Control Inspections for Off-site Contractor Activities

Water pollution control inspection of off-site contractor's construction activities has been inconsistent throughout the districts.

In order to comply with the State Water Resources Control Board (SWRCB) requirements in the Department of Transportation (Department) "National Pollutant Discharge Elimination System (NPDES);" NPDES Permit CAS000003 (Permit), a site specific, Storm Water Pollution Prevention Plan (SWPPP), shall be developed and implemented for each construction project. Section H, item 8b of the Permit states: "The SWPPP shall apply to all areas that are directly related to the construction activity, including but not limited to staging areas, storage yards, material borrow areas and storage areas, access roads, etc., **whether or not they reside within the Department's right-of-way.**"

Pursuant to Chapter 7, Section 104B(2) of the *Construction Manual*, during the course of work, the resident engineer must do the following: "Inspect the contractor's operations for compliance with the specifications and the approved SWPPP or WPCP, including deployment of BMPs."

The Department *SWPPP/WPCP Preparation Manual* dated November 2000, SWPPP, Section 2, page 53 of 62, specifies: "If the contractor's yard for the project is not within the Caltrans right-of-way, but is located near the vicinity of the project, the water pollution control drawings shall show all BMPs to be used at contractor's yard."

The SWPPP, including conducting inspections, shall apply to all areas, whether or not they reside within the Department's right-of-way, directly related to the Department's

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CPD 02-10

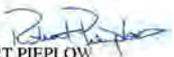
Hazardous Waste Procedures

- ➔ In the event that previously unknown hazardous waste or USTs are discovered during construction, follow the procedures in the Construction Manual
- ➔ Emergency on call hazardous waste contracts are to be used to assess and remediate hazardous waste finds
- ➔ If there is an imminent threat to life, health, or the environment, call maintenance forces for assistance

State of California Business, Transportation and Housing Agency

Memorandum *Flex your power!
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To: DEPUTY DISTRICT DIRECTORS, Construction Date: December 20, 2002
CONSTRUCTION SENIORS
RESIDENT ENGINEERS File: Division of Construction
CPD 02-10

From: 
ROBERT PIEPLOW
Chief
Division of Construction - MS 44

Subject: Hazardous Waste Procedures

Requirements for hazardous waste or potentially hazardous waste discovered during construction are set forth in Section 7-106 of the *Construction Manual*. To ensure safety and legal requirements are met under such circumstances, resident engineers must follow the step-by-step procedures described in this section and shown in Table 7-1.1, "Unknown Hazards Procedures."

In the event that previously unknown hazardous waste or underground tanks are discovered during construction, follow the procedures in the *Construction Manual*. Emergency on call hazardous waste contracts are to be used to assess and remediate hazardous waste finds. Section 25914 of the Health and Safety Code prohibits having the construction contractor or his subcontractors undertake hazardous waste work not identified in the contract. The only exceptions to this are:

1. Specific items of hazardous waste or asbestos abatement work to be performed as a part of the contract;
2. Contractor cleanup of accidental spills of hazardous materials caused by his own forces; and
3. Contractor cleanup due to his own actions that created hazardous material situations (i.e., improper/illegal disposal, etc.).

If there is an imminent threat to life, health, or the environment, maintenance forces may be called in for assistance. However, the resident engineer should take over responsibility for managing the situation as soon as it is safely possible to do so.

If you have any questions, please call Roger Cook at CALNET 8-464-2735 or (916) 654-2735.

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CPD 03-1

24-hour Contractor Required Water Pollution Control Training

➔ Contractors SWPPP preparer and Water Pollution Control Manager (WPCM) must have a minimum of 24 hours of formal stormwater training or be a CPESC

➔ The CPESC or 24-hour training provided by Caltrans approved instructors meet Caltrans requirements for 24-hour formal training

➔ Course outlines for these classes are located on Caltrans website

State of California Business, Transportation and Housing Agency

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To: DEPUTY DISTRICT DIRECTORS, Construction
CONSTRUCTION MANAGERS
SENIOR CONSTRUCTION ENGINEERS
RESIDENT ENGINEERS, Construction

Date: January 30, 2003

From: ROBERT PIEPLOW *Robert Pieplow*
Chief
Division of Construction - MS 44

File: Division of Construction
CPD 03-1

Subject: 24-hour Contractor Required Water Pollution Control Training

The Department of Transportation (Department) is required by the *National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated With Construction Activity* (General Permit) to ensure that all persons responsible for complying with the General Permit, and for implementing water pollution measures, are appropriately trained.

The Storm Water Pollution Prevention Plan (SWPPP) and Water Pollution Control Program (WPCP) Preparation Manual (November 2000) and project Standard Special Provisions require that the contractor's SWPPP preparer and Water Pollution Control Manager (WPCM) have a minimum of 24 hours of formal storm water management training or certification as a Certified Professional in Erosion and Sediment Control (CPESC). The Department has allowed adequate time for the industry to develop appropriate formal training programs and for contractor's staff to complete the required training.

As of this date, the CPESC or the 24-hour training provided by AEI-CASC Engineering or Global Environmental Network, Inc. meet the Department's specification requirements for 24-hours formal storm water management training. The course outlines for these classes are located on the Department's Internet page (http://www.dot.ca.gov/hq/construc/stormwater/swppp_training.html) to assist in the review of contractor's SWPPP submittals. College and university courses may also satisfy the SSP requirement. Approved categories of classes are listed on the Department's web page (http://www.dot.ca.gov/hq/construc/swppp_ctraining.html). These classes shall be used to evaluate the contractor's SWPPP submittal against the Department approved training. The resident engineer should contact his district/region construction storm water coordinator regarding the evaluation of the 24-hour training requirements if one of the above pre-approved methods is not listed in the 24-hour training submitted in the SWPPP.

All projects with bid dates of **February 1, 2003**, or later must include the SSP requirement for training of the contractor's SWPPP preparer and WPCM

c: TGrasso, AGC
District Directors
BFelker, RBuckley, DValls

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CPD 04-5

Disposal of Portland Cement Concrete Liquid Residues

- ➔ The contractor must dispose of portland cement concrete liquid residues outside the highway ROW at a facility permitted by the RWQCB
- ➔ The contractor must provide the name and location of the disposal facility to the RE before disposal
- ➔ The contractor must submit final proof of delivery to the RE after disposal at the off-site disposal facility

State of California

Business, Transportation and Housing Agency

Memorandum

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To: DEPUTY DISTRICT DIRECTORS, Construction
DEPUTY DIVISION CHIEFS, Structure Construction
CONSTRUCTION MANAGERS
SENIOR CONSTRUCTION ENGINEERS
RESIDENT ENGINEERS

Date: July 8, 2004

File: Division of Construction
CPD 04-5

From: 
ROBERT PIEPLOW
Chief
Division of Construction

Subject: Disposal of Portland Cement Concrete Liquid Residues

Portland cement concrete liquid residues are generated by, but not limited to, the following operations:

- Portland cement concrete pavement and bridge deck grooving and grinding;
- Grouting soundwalls, prestressing ducts, column casings, and other grouting operations;
- Mortar placing operations;
- Portland cement concrete saw cut operations;
- Portland cement concrete truck washouts;
- Mineral and chemical admixtures.

The California Regional Water Quality Control Board (RWQCB) has jurisdiction over portland cement concrete liquid residues disposal sites. The Department communicates disposal of portland cement concrete liquid residues through the *Standard Specifications* and "Materials Information" furnished to contractors.

Section 42-1.02, "Grooving - Construction," and Section 42-2.02, "Grinding - Construction," of the *Standard Specifications* requires the contractor to dispose of portland cement concrete liquid residues from groove and grind pavement operations at the location listed in and in the manner specified in the "Materials Information." Section 51-1.17, "Finishing Bridge Decks," of the *Standard Specifications* requires the contractor to dispose of residues from grooving and grinding operations outside the highway right-of-way in accordance with Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the *Standard Specifications*.

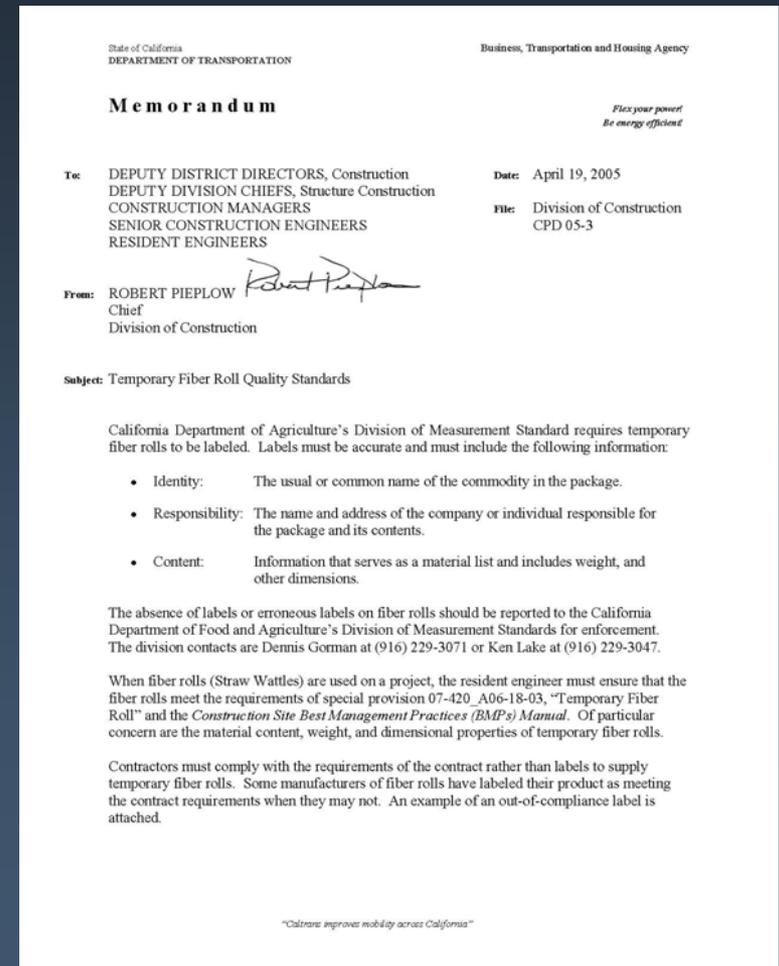
In accordance with federal and state law, state regulations, and the contract, the contractor must dispose of portland cement concrete liquid residues outside the highway right-of-way in accordance with Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the *Standard Specifications* at a facility permitted by the RWQCB.

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CPD 05-3

Temporary Fiber Roll Quality Standards

- ➔ Temporary fiber rolls must be labeled to include: Identity; Responsibility; and Content
- ➔ The absence of labels or erroneous labels should be reported to the California Dept. of Food and Agriculture's Division of Measurement Standards
- ➔ When fiber rolls are used on a project, the RE must ensure that the fiber rolls meet the requirements of special provision 07-420_A06-18-03



CPD 05-8

Availability of Storm Water Pollution Prevention Documents to State Agencies and Public

- ➔ SWPPPs and WPCPs are public records that are not exempt from public disclosure
- ➔ The RE must send a copy of the SWPPP or WPCP within ten calendar days from receipt of the request
- ➔ The RE forwards all requests for SWPPPs or WPCPs on completed projects to the district NPDES coordinator

State of California
DEPARTMENT OF TRANSPORTATION

Business, Transportation and Housing Agency

Memorandum

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To: DEPUTY DISTRICT DIRECTORS, Construction
DEPUTY DIVISION CHIEFS, Structure Construction
CONSTRUCTION MANAGERS
SENIOR CONSTRUCTION ENGINEERS
RESIDENT ENGINEERS
CONSTRUCTION STORM WATER COORDINATORS

Date: August 26, 2005

File: Division of Construction
CPD 05-8

From: ROBERT PIEFLOW
Chief
Division of Construction



Subject: Availability of Storm Water Pollution Prevention Documents to State Agencies and Public

On June 7, 2005, the State Water Resources Control Board issued a policy that directs the Regional Water Quality Control Boards (RWQCBs) to respond promptly to requests by environmental groups and the public for access to Storm Water Pollution Prevention Plans (SWPPPs).

RWQCBs may not always be in possession of all SWPPPs but they have the authority to require the submittal of a SWPPP at any time, including up to 30 days prior to commencement of significant soil disturbance activities. As a result, resident engineers may soon receive requests from the RWQCBs staff for the submittal of SWPPPs for their respective construction projects. In addition, members of the public or environmental groups may directly contact the resident engineer to request copies of the SWPPPs or Water Pollution Control Programs (WPCPs) for an ongoing construction project. SWPPPs and WPCPs are public records that are not legally exempt from public disclosure. The public has the right to inspect or obtain a copy of these documents.

The resident engineer must send a copy of the requested SWPPP or WPCP document within ten calendar days from receipt of the request. The construction storm water coordinator shall review the document for accuracy and completeness before release. If deficiencies are detected during the review, amendments shall be facilitated by the resident engineer and a revised copy of the document provided to the requestor.

If a copy of the requested document cannot be provided within ten calendar days of the initial request, the requestor shall be notified that the document will be provided within an extended period of up to 14 additional calendar days; a total of 24 calendar days of the initial request. This written notification of extended delivery shall be provided within ten calendar days of initial receipt of a written request.

"Caltrans improves mobility across California"

CPD 06-4

Revised – Seed Samples for Erosion Control Work

- ➔ On all projects with erosion control work, seed samples are to be taken from the contractor and submitted for quality assurance
- ➔ Two consultants are now receiving the seed samples and verifying their compliance with the project

State of California
DEPARTMENT OF TRANSPORTATION

Business, Transportation and Housing Agency

Memorandum

*Flex your power!
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To: DEPUTY DISTRICT DIRECTORS, Construction
DEPUTY DIVISION CHIEFS, Structure Construction
CONSTRUCTION MANAGERS
SENIOR CONSTRUCTION ENGINEERS
RESIDENT ENGINEERS

Date: April 18, 2006

File: Division of Construction
CPD 06-4

From: ROBERT PIEPLOW 
Chief
DIVISION OF CONSTRUCTION

Subject: Revised - Seed Samples for Erosion Control Work

The Landscape Architecture Program is continuing to conduct a detailed review of seed supplied on construction and highway planting projects. To assist in executing this program, two consulting firms are now receiving the seed samples and verify their compliance with the project specifications until June 2009. This directive supersedes CPD 04-8, dated August 13, 2004.

On all projects with erosion control work, seed samples and supporting documentation are to be taken from the contractor and submitted for testing for quality assurance. Please follow the procedures below when taking these samples.

Under the standard special provisions (SSP) 20-010, 20-030, 20-040, 20-050, and 20-530, "A sample of approximately 30 grams (1 ounce) of seed will be taken from each seed container by the Engineer." To implement the *Standard Specifications* and SSP, the seed sample submittals are to be accompanied with the following documentation:

- Seed samples of each seed type (plant species)
- A completed Form TL-0101, "Sample Identification Card" with contact information
- A copy of applicable project special provisions
- A copy of the vendor's original seed label
- A copy of the vendor's seed lot test results

Until further notice please submit all seed samples and documentation as listed below.

For Northern California Districts 1, 2, 3, 4, &10 and the District 5 counties of Monterey, San Benito, & Santa Cruz to:

"Caltrans improves mobility across California"

CPD 06-12

Solid Waste Disposal and Recycling Report

➔ A reminder that REs and construction staff have obligations to ensure successful data collection for the solid waste disposal and recycling report

➔ Form CEM-2025 “Solid Waste Disposal and Recycling Report,” has been changed to Form CEM-4401

➔ The new form is modified for easier data collection

State of California
DEPARTMENT OF TRANSPORTATION

Business, Transportation and Housing Agency

Memorandum

*Flex your power!
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To: DEPUTY DISTRICT DIRECTORS, Construction
DEPUTY DIVISION CHIEFS, Structure Construction
CONSTRUCTION MANAGERS
SENIOR CONSTRUCTION ENGINEERS
RESIDENT ENGINEERS

Date: December 15, 2006

File: Division of Construction
CPD 06-12

From: ROBERT PIEPLOW
Chief
Division of Construction

Robert Pieplow

Subject: Solid Waste Disposal and Recycling Report

The purpose of this Construction Procedure Directive (CPD) is to remind resident engineers and construction staff of their obligations to ensure successful data collection for the solid waste disposal and recycling report.

All contractors must be informed or reminded, in writing, immediately of the following:

1. Form CEM-2025, “Solid Waste Disposal and Recycling Report,” has been changed to Form CEM-4401, “Solid Waste Disposal and Recycling Report.”
2. The form is modified for easier data collection.
3. Either Solid Waste Disposal and Recycling Report, Form CEM-2025 or Form CEM-4401, is acceptable for ongoing contracts.
4. January 15, 2007, is the deadline for submitting completed reports.
5. The required \$10,000 deduction will be implemented for non-compliance.

A sample letter to the contractor and the Form CEM-4401, “Solid Waste Disposal and Recycling Report,” are attached for your convenience. Send this form with your reminder letter to the contractor as soon as possible.

Resident engineers must review, sign and forward all Solid Waste Disposal and Recycling Reports directly to the district recycling coordinators, not later than February 1, 2007. A copy of each report must also be sent to the statewide recycling coordinator in the Division of Design and to the district construction office.

“Caltrans improves mobility across California”

CPD 06-6

2007 Time Extension on Existing Variance for Aerially Deposited Lead

- ➔ DTSC issued a letter on April 6, 2006 stating that the existing variance for ADL is extended until June 30, 2007
- ➔ Caltrans is continuing to work with the DTSC to renew the variance
- ➔ The Division of Environmental Analysis' website has additional information regarding the ADL variance

State of California
Business, Transportation and Housing Agency

Memorandum

*Plus your power!
Be energy efficient!*

To: DEPUTY DISTRICT DIRECTORS, Construction
DEPUTY DIVISION CHIEFS, Structure Construction
CONSTRUCTION MANAGERS
SENIOR CONSTRUCTION ENGINEERS
RESIDENT ENGINEERS

Date: July 28, 2006

File: Division of Construction
CPD 06-6

From: ROBERT PIEPLOW 
Chief
Division of Construction

Subject: 2007 Time Extension on Existing Variance for Aerially Deposited Lead

The Department of Toxic Substances Control (DTSC) issued a letter on April 6, 2006 to all districts currently holding an aerially deposited lead (ADL) variance and planning to renew it. The letter states that the existing variance for ADL is extended until June 30, 2007. The Department of Transportation is continuing to work with DTSC to renew the variance.

The Division of Environmental Analysis' web site has additional information regarding the ADL variance at:

<http://www.dot.ca.gov/hq/env/haz/index.htm>

This Construction Procedures Directive (CPD) supersedes CPD 05-5 and CPD 05-7.

If you have any questions or comments regarding this construction procedures directive, please contact Chuck Suszko, Chief, Office of Construction Engineering at (916) 227-7314.

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RE Responsibilities During Construction

- ➔ Course Highlights
 - ⇒ RE Responsibilities Before Construction
 - ⇒ Standard Special Provisions (SSPs)
 - ⇒ **RE Responsibilities During Construction**
 - ⇒ Project Closeout Responsibilities
 - ⇒ Inspection Procedures
 - ⇒ Mock Inspection
 - ⇒ Maintenance of BMPs
 - ⇒ Communication



RE Responsibilities During Construction

➔ Course Highlights

- ➔ RE Responsibilities Before Construction
- ➔ Standard Special Provisions (SSPs)
- ➔ **RE Responsibilities During Construction**
- ➔ Project Closeout Responsibilities
- ➔ Inspection Procedures
- ➔ Mock Inspection
- ➔ Maintenance of BMPs
- ➔ Communication

➔ Starting Construction

- ➔ Inspections
- ➔ Notice of Discharge
- ➔ Payments / Sanctions
- ➔ Annual Certification / Documentation
- ➔ SWPPP Amendments

Starting Construction

- ➔ No work having the potential to cause water pollution can start before RE approval of the SWPPP/WPCP
- ➔ Contractor should not:
 - ⇒ Move-in equipment or pollutant causing materials
 - ⇒ Disturb soil areas
 - ⇒ Track sediment onto adjacent roads



Starting Construction

➔ Conditional Approval

- ⇒ After submission of a SWPPP/WPCP, the RE may conditionally approve the SWPPP while minor revisions are being completed. Construction activities such as traffic control, which will not threaten water quality, may proceed without an approved SWPPP if allowed by the RE
- ⇒ RE is responsible for ensuring the Contractor submits a SWPPP for approval

➔ Consider the following:

- ⇒ Season
- ⇒ Contractor's Schedule
- ⇒ Type of activity
- ⇒ Location of activity

RE Responsibilities During Construction

➔ Course Highlights

- ➔ RE Responsibilities Before Construction
- ➔ Standard Special Provisions (SSPs)
- ➔ **RE Responsibilities During Construction**
- ➔ Project Closeout Responsibilities
- ➔ Inspection Procedures
- ➔ Mock Inspection
- ➔ Maintenance of BMPs
- ➔ Communication

➔ Starting Construction

➔ **Inspections**

➔ Notice of Discharge

➔ Payments / Sanctions

➔ Annual Certification /
Documentation

➔ SWPPP Amendments

Inspections

➔ Contractor

- ⇒ Review contractor inspection reports
- ⇒ Inspect BMP Implementation

➔ Caltrans

- ⇒ Inspect the contractor's operations for water pollution control compliance
- ⇒ If compliance inspection rating of **3 or 4** is received RWQCB notification may be required if critical deficiencies not corrected—CPD 01-08

Attachment H
Storm Water Quality Construction Inspection Checklist

GENERAL INFORMATION				
Project Name				
Caltrans Contract N°				
Contractor				
Inspector's Name				
Inspector's Title				
Signature				
Date of Inspection				
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain			<input type="checkbox"/> After a rain event
	<input type="checkbox"/> 24-hr intervals during extended rain			<input type="checkbox"/> Other _____
Season (Check Applicable)	<input type="checkbox"/> Rainy		<input type="checkbox"/> Non-Rainy	
Storm Data	Storm Start Date & Time:		Storm Duration (hrs):	
	Time elapsed since last storm (Circle Applicable Units)	Min	Hr	Days
			Approximate Rainfall Amount (mm)	

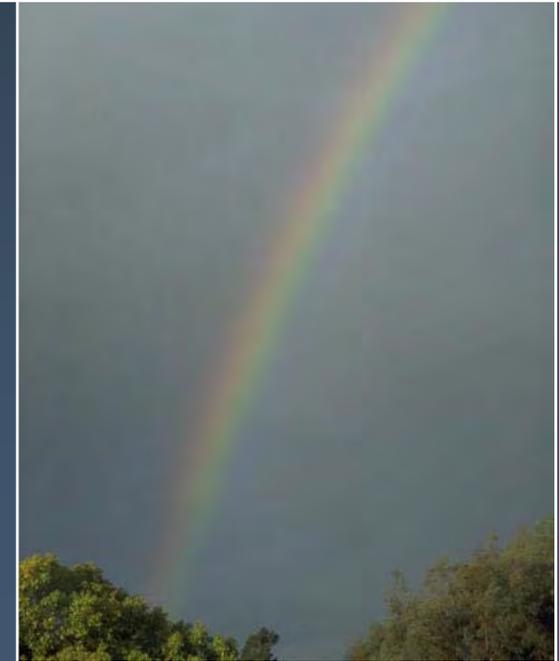
PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE LIMITS FROM SPECIAL PROVISIONS			
Total Project Area	_____ Hectares	_____ Acres	
Rainy Season DSA Limit	_____ Hectares	_____ Acres	
Field Estimate of Active DSAs	_____ Hectares	_____ Acres	

OTHER REQUIREMENTS				
Requirement	Yes	No	N/A	Corrective Action
Preservation of Existing Vegetation				
Is temporary fencing provided to preserve vegetation in areas where no construction activity is planned?				
Location:				
Location:				
Location:				

Inspections

➔ Frequency

- ⇒ Prior to anticipated storm events
- ⇒ During extended storm events (once each 24-hour period)
- ⇒ After actual storm events
- ⇒ Weekly during rainy season
- ⇒ Every 2 weeks during non-rainy season
- ⇒ Daily within the Lake Tahoe Region
- ⇒ As specified in the Special Provisions



Inspections

- ➔ **Prior to an anticipated storm event, confirm:**
 - ⇒ Active areas limited as specified (rainy season)
 - ⇒ The protection of active and non-active DSAs
 - ⇒ The control of off-site stormwater run-on
 - ⇒ The condition of drainage systems
 - ⇒ BMPs are properly implemented



Inspections

➔ During a storm event:

- ⇒ Best time to review BMPs!
- ⇒ Confirm the proper functioning of BMPs
- ⇒ Ensure BMPs do not cause flooding or traffic hazard
- ⇒ Repair or revise BMPs as conditions allow
- ⇒ Good learning experience



Inspections

➔ After an actual storm event:

- ⇒ Identify BMPs that failed
- ⇒ Identify BMPs that need maintenance
- ⇒ Repair, revise and maintain BMPs as necessary
- ⇒ Good learning experience



Compliance Inspections - The “ACCRP”

What is the ACCRP, and why is it important to us?

Annual Construction Compliance
Review Plan

CTSW-RT-05-000.00.1



Department of Transportation
Sacramento, California

August 2005

The “ACCRP”

ACCRP stands for Annual Construction Compliance Review Plan

- It is the document that determines how the Stormwater Compliance Inspectors are to inspect and compile compliance ratings.
- It is important because it could be considered an indication of the compliance of the water pollution control requirements of the project.
- It is important to know the grading system that will determine when or if we can terminate the consent decree.

The “ACCRP”

Critical Elements:

- Project Priority Status and Inspection frequency.
 - **Status 1, 2 or 3**
 - **Rainy season and Non-rainy season inspection frequency**
 - **Follow-up inspection frequency**
 - **Priority Status adjustment**
- Identifies Compliance Rating criteria
- Appeals process
- Current inspection forms

The “ACCRP”

Project Priority Status and Inspection frequency:

Project Priority Status	Inspection Team Size	Rainfall Area	Routine Inspection Frequency		Follow-up Inspection by Compliance Rating		Priority Status Adjustment Criteria	
			Non-Rainy	Rainy	Rating	Frequency *		
1	1	2, 3, 4, & 5	Non-Rainy	Every 2 months	1	Routine Inspection	Following three consecutive rainy season inspections with a 1 or 2 rating, a project may be modified to Priority 2 status.	
			Rainy	Every month				
		1 & 6	Non-Rainy	Every 1½ months	2	Routine inspection, or as determined by inspector		
			Rainy	Every month				
2	1	2, 3, 4, & 5	Non-Rainy	Every 3 months	3	Within 2 weeks		Following two 3 or 4 ratings within a 6-month period, a project may be modified to Priority 1 status. Following an uncontested Notice of Violation from a Regional Water Quality Control Board, the project will be modified to a priority 1 status.
			Rainy	Every 2½ months				
		1 & 6	Non-Rainy	Every 2 months	4	Within 1 week		
			Rainy	Every 2 months				
3	1	2, 3, 4, & 5	Non-Rainy	Every 3 months	4	Within 1 week		
			Rainy	Every 3 months				
		1 & 6	Non-Rainy	Every 3 months	4	Within 1 week		
			Rainy	Every 3 months				

* These frequencies are approximate time periods.

The “ACCRP”

Identifies Compliance Rating criteria:

1 Rating

There are no significant deficiencies that require correction. Criteria meeting this rating include:

- The approved SWPPP appropriately addresses all categories of BMPs and is applicable to the current project operations and season.
- Appropriate treatment control provided for dewatering operations.
- Non-storm water and waste management BMPs properly implemented.
- Sediment tracking is minimal to non-existent.
- No evidence of wind erosion.
- All temporary soil stabilization BMPs implemented in accordance with the project’s SWPPP requirements.
- Sediment controls are implemented in accordance with the approved SWPPP.

The “ACCRP”

Identifies Compliance Rating criteria:

2 Rating

The project has minor deficiencies. The inspector will list each of the minor deficiencies and can include corrective actions to be taken prior to the next scheduled inspection.

Minor deficiencies include the following:

- Site inspections by project staff are not being conducted in accordance with expected frequencies.
- Approved SWPPP does not reflect current operations and an amendment is recommended.
- Any non-storm water or waste management BMPs improperly maintained.
- Soil stabilization or sediment controls are not properly maintained.
- Evidence of active wind erosion on unstabilized slopes/stock piles.
- Minor tracking less than approximately 50 feet from project entrance or exit points.

The “ACCRP”

Identifies Compliance Rating criteria:

3 Rating

Excessive **minor** deficiencies and/or **major** deficiencies are encountered. This rating will be applied if either a total of six or more minor deficiencies requiring correction are observed and/or **Major** deficiencies exist on the project.

Major deficiencies are defined as follows:

- Approved SWPPP does not reflect current operations and amending of the document is past due or needed ASAP.
- Hazardous materials or waste is stored within the project without implementation of BMPs.
- Any discharge of sediment or deleterious substances resulting from dewatering operations conducted without implementation of required BMPs for dewatering.

The “ACCRP”

Identifies Compliance Rating criteria:

4 Rating

There are **critical** deficiencies that would likely result in a violation of the permit if a storm water runoff event were to occur. The inspector will note the deficiencies and make recommendations for corrective action. Critical deficiencies are defined as follows:

- No approved SWPPP
- Any observed discharge of storm water or non-storm water from the project that, in the judgment of the inspector, is generated by the construction activity, and is uncontrolled.
- Absence of linear barriers and/or perimeter controls required by the applicable BMP implementation manual.
- There are identified storm water inlets or receiving waters within or adjacent to the project site in close proximity to DSAs without control measures in place that pose an immediate threat of untreated storm water discharges.
- Working in an active stream channel or other water body without proper implementation of required BMPs.
- No corrective action taken for potential hazardous materials/waste deficiencies noted in (3) above.
- Sampling and analysis plan (SAP) requirements have not been properly implemented.

The “ACCRP”

Identifies Compliance Rating criteria:

Appeal Process

The process was as follows:

- The inspector shall provide the Resident Engineer or the Resident Engineer’s onsite representative a copy of the inspection report immediately following a project site review.
- The R.E. will notify the District Construction Storm Water Coordinator (CSWC) of any disputed unfavorable rating and submit supporting documentation/photos, etc.
- The District CSWC investigates the disputed rating, and, if appropriate, completes an appeal of inspection form and submits this form (by fax or email) along with a copy of the original inspection summary sheet and supporting documentation to the HQ Division of Environmental Analysis (DEA) Construction Storm Water (CSW) Coordinator. All appeal requests and supporting documentation must be submitted to the DEA-CSW Coordinator within 5 working days of the initial site inspection. Once a timely appeal request is submitted, the initial rating will be suspended until the appeals process is completed and the inspection rating is resolved.

The “ACCRP”

- The DEA-CSW Coordinator will receive and distribute all appeal information, including any photo documentation requested of the inspector, to an Appeal Panel that will determine whether the initial rating is justified. The panel will review all of the available information and determine whether there is substantial reason to modify the initial inspection rating. The decision to change a rating will be by majority vote of the panel. The panel may consult with various Departmental personnel to assign a final rating.
- The Appeal Panel will consist of one representative from each of the following:
 - 1) HQ-DEA, Office of Storm Water Policy, Permitting and Planning;
 - 2) HQ-Division of Construction, Office of Construction Practices;
 - 3) District NPDES Coordinator or his/her designated representative who is either identified in the District’s Regional Work Plan or is supervised by the District or Regional NPDES Coordinator. The District CSWC cannot participate as a member of the Appeal Panel.
- The DEA-CSW Coordinator will notify the R.E. and District CSWC of the panel’s findings. If the appeal process results in a final rating that is still unacceptable to the R.E., the R.E. shall notify the District Construction Chief for the project within two working days of notification.
- The DEA Chief for Storm Water Policy, Permitting & Planning shall review and make the final decision regarding any contested rating rendered as a result of an appeal inspection, at the request of the project’s (District) Construction Chief.

The "ACCRP"

Current inspection forms :

SWPPP Rainy Season - COMPLIANCE INSPECTION CHECKLIST

Contract No. _____	Date: _____
--------------------	-------------

2. SEDIMENT CONTROL PRACTICES

For DSAs with a slope rate $\geq 1:20$ and a slope length ≥ 3.0 m (10 ft). Are linear sediment barriers properly implemented?

YES NO Deficiencies: No Significant Minor Major Critical

Further Explanation: _____

Are sediment controls used in flow paths/conveyances properly implemented?

YES NO Deficiencies: No Significant Minor Major Critical

Further Explanation: _____

Desilting Basins Only -For **ACTIVE AND NON-ACTIVE DSAs (AREAS 1 AND 6 ONLY)** with slope rate $\geq 1:20$ and a slope length ≥ 3.0 m (10 ft). Are desilting basins properly implemented in addition to linear sediment barriers?

YES NO Deficiencies: No Significant Minor Major Critical

Further Explanation: _____

Are sediment controls used in flow paths/conveyances properly implemented?

YES NO Deficiencies: No Significant Minor Major Critical

Further Explanation: _____

Desilting Basins Only -For **ACTIVE DSAs (AREAS 2, 3, 4, AND 5 ONLY)** with a slope rate $\geq 1:2$ and a slope length ≥ 15.0 m (50 ft). Are desilting basins properly implemented in addition to linear sediment barriers?

YES NO Deficiencies: No Significant Minor Major Critical

Further Explanation: _____

Are desilting basins properly implemented in addition to other sediment controls?

YES NO Deficiencies: No Significant Minor Major Critical

Further Explanation: _____

Inspection performed during or immediately following a rain event, are the implemented BMPs effective in controlling sediment discharge? YES NO

Further Explanation: _____

Sediment Discharged: None Minor Major Localized Widespread

Number of BMPs observed *No. deficient due to: (1) _____ (2) _____ (3) _____ (4) _____ (5) _____

Comments / BMPs Observed: _____

*Key: (1) Installed Incorrectly (2) Wrong Location (3) Lack of Maintenance (4) Wrong Application (5) Indeterminate

SWPPP Rainy Season - COMPLIANCE INSPECTION CHECKLIST

Contract No. _____	Date: _____
--------------------	-------------

3. WIND EROSION CONTROL

Are wind erosion control BMPs properly implemented throughout the construction site?

YES NO Deficiencies: No Significant Minor Major Critical

For active wind during time of inspection, are implemented BMPs effective in controlling wind erosion?

YES NO Deficiencies: No Significant Minor Major Critical

Number of BMPs observed *No. deficient due to: (1) _____ (2) _____ (3) _____ (4) _____ (5) _____

Comments / BMPs Observed: _____

Approved wind erosion control: (A) Hydraulic Mulch, (B) Hydroseeding, (C) Soil Binders, (D) Straw Mulch, (E) Geotextiles, (F) Final Erosion Control Per the Plans and Specifications

*Key: (1) Installed Incorrectly (2) Wrong Location (3) Lack of Maintenance (4) Wrong Application (5) Indeterminate

4. TRACKING CONTROL PRACTICES

Project Related Non-Project Related

Are sediment tracking control BMPs properly implemented throughout the construction site?

YES NO Deficiencies: No Significant Minor Major Critical

Further Explanation: _____

For active construction during inspection, are implemented BMPs effective in controlling sediment tracking?

YES NO Deficiencies: No Significant Minor Major Critical

Further Explanation: _____

Number of BMPs observed *No. deficient due to: (1) _____ (2) _____ (3) _____ (4) _____ (5) _____

Further Explanation: _____

*Key: (1) Installed Incorrectly (2) Wrong Location (3) Lack of Maintenance (4) Wrong Application (5) Indeterminate

The "ACCRP"

Current inspection forms :

SWPPP Rainy Season - COMPLIANCE INSPECTION CHECKLIST	
Contract No.	Date:
5. NON-STORM WATER CONTROL & 6. WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL	
Are the following BMPs properly implemented where required?	
Temporary Stream Crossing <input type="checkbox"/> YES <input type="checkbox"/> NO Deficiencies: <input type="checkbox"/> No Significant <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Critical	Further Explanation:
Clear Water Diversion <input type="checkbox"/> YES <input type="checkbox"/> NO Deficiencies: <input type="checkbox"/> No Significant <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Critical	Further Explanation:
Spill Prevention and Control <input type="checkbox"/> YES <input type="checkbox"/> NO Deficiencies: <input type="checkbox"/> No Significant <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Critical	Further Explanation:
Solid Waste Management <input type="checkbox"/> YES <input type="checkbox"/> NO Deficiencies: <input type="checkbox"/> No Significant <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Critical	Further Explanation:
Hazardous Waste Management <input type="checkbox"/> YES <input type="checkbox"/> NO Deficiencies: <input type="checkbox"/> No Significant <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Critical	Further Explanation:
Contaminated Soil Management <input type="checkbox"/> YES <input type="checkbox"/> NO Deficiencies: <input type="checkbox"/> No Significant <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Critical	Further Explanation:
Concrete Waste Management <input type="checkbox"/> YES <input type="checkbox"/> NO Deficiencies: <input type="checkbox"/> No Significant <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Critical	Further Explanation:
Sanitary/Septic Waste Management <input type="checkbox"/> YES <input type="checkbox"/> NO Deficiencies: <input type="checkbox"/> No Significant <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Critical	Further Explanation:
Liquid Waste Management <input type="checkbox"/> YES <input type="checkbox"/> NO Deficiencies: <input type="checkbox"/> No Significant <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Critical	Further Explanation:
Materials Handling (Material Delivery & Storage and Material Use)	
<input type="checkbox"/> YES <input type="checkbox"/> NO Deficiencies: <input type="checkbox"/> No Significant <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Critical	Further Explanation:
Vehicle and Equipment Operations (Cleaning, Fueling, and Maintenance)	
<input type="checkbox"/> YES <input type="checkbox"/> NO Deficiencies: <input type="checkbox"/> No Significant <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Critical	Further Explanation:
Paving Operation <input type="checkbox"/> YES <input type="checkbox"/> NO Deficiencies: <input type="checkbox"/> No Significant <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Critical	Further Explanation:
Stockpile Management Deficiencies: <input type="checkbox"/> No Significant <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Critical	Further Explanation:

SWPPP Rainy Season - COMPLIANCE INSPECTION CHECKLIST	
Contract No.	Date:
5. NON-STORM WATER CONTROL & 6. WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL	
(Continued)	
Are the following BMPs properly implemented where required?	
Water Conservation Deficiencies: <input type="checkbox"/> No Significant <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Critical	Further Explanation:
Potable Water/Irrigation Deficiencies: <input type="checkbox"/> No Significant <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Critical	Further Explanation:
Dewatering Operation Deficiencies: <input type="checkbox"/> No Significant <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Critical	Further Explanation:
Illicit Discharge/Illegal Dumping Observed? <input type="checkbox"/> YES <input type="checkbox"/> NO	Further Explanation:
Pile Driving Operations <input type="checkbox"/> YES <input type="checkbox"/> NO Deficiencies: <input type="checkbox"/> No Significant <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Critical	Further Explanation:
Concrete Curing <input type="checkbox"/> YES <input type="checkbox"/> NO Deficiencies: <input type="checkbox"/> No Significant <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Critical	Further Explanation:
Material and Equipment Use Over Water: <input type="checkbox"/> YES <input type="checkbox"/> NO Deficiencies: <input type="checkbox"/> No Significant <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Critical	Further Explanation:
Concrete Finishing <input type="checkbox"/> YES <input type="checkbox"/> NO Deficiencies: <input type="checkbox"/> No Significant <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Critical	Further Explanation:
Structure Demolition/Removal Over or Adjacent to Water	
<input type="checkbox"/> YES <input type="checkbox"/> NO Deficiencies: <input type="checkbox"/> No Significant <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Critical	Further Explanation:
Were there any Non-Storm water discharges observed? <input type="checkbox"/> YES <input type="checkbox"/> NO	
If Yes, Were implemented BMPs effective in controlling water pollution?	
<input type="checkbox"/> N/A Deficiencies: <input type="checkbox"/> No Significant <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Critical	Further Explanation:
Number of BMPs observed: <input type="checkbox"/> *No. deficient due to: (1) _____ (2) _____ (3) _____ (4) _____ (5) _____	
*Key: (1) Installed Incorrectly (2) Wrong Location (3) Lack of Maintenance (4) Wrong Application (5) Indeterminate	

The "ACCRP"

Current inspection forms :

SWPPP Rainy Season - COMPLIANCE INSPECTION CHECKLIST

Contract No: _____ Date: _____

6. Project File Review

Documentation File Review Checklist:

Yes	No	N/A	Documentation in Project Files:
<input type="checkbox"/>	<input type="checkbox"/>		All Contractor Inspection Reports as of 2 weeks prior to today's inspection
<input type="checkbox"/>	<input type="checkbox"/>		Last Inspection report dated: _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Signed/Dated SWPPP (by Contractor in SECTION 100.1 and by Caltrans in SECTION 100.2) on site
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Approved Amendments for variances observed during inspection
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Annual Certification(s)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Active DSAs comply with limits in Special Provisions?
<input type="checkbox"/>	<input type="checkbox"/>		If No, is RE approval of DSA modification on file? Date of approval: _____
<input type="checkbox"/>	<input type="checkbox"/>		Sampling and Analysis Plan
Dewatering:			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does Special Provisions and approved SWPPP address dewatering if applicable for project?
<input type="checkbox"/>	<input type="checkbox"/>		If yes, does plan address:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Discharge Points?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BMPs/Control Measures?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Monitoring Protocols?

Rev 10/03

Appeal Memorandum:

State of California Business, Transportation and Housing Agency

M e m o r a n d u m

To: Thomas Huff Date: xx/xx/xx
 Sr. Landscape Architect
 Division of Environmental Analysis

**DEPARTMENT OF TRANSPORTATION
 ENVIRONMENTAL PROGRAM - MS27**

(916) 653-4176 - Ofc
 (916) 826-4198 - Mobil
 (916) 653-6366 - Fax

File No.: County, Rte., PM/KPA
 Contract No. 00-123456

From: Resident Engineer:
 Phone No.:

Subject: **Appeal of inspection performed on xx/xx/xx**

Rating: Reason of Appeal:	
INFORMATION SUMMARY SHEET and COMPLIANCE INSPECTION CHECKLIST COMMENTS	RESPONSE/COMMENT

cc: Dist. Const. Div. Chief, Senior Const. RE, Dist. SW Coord., Const. SW Coord., HQ SW Coord.

Rev 10/03



RE Responsibilities During Construction

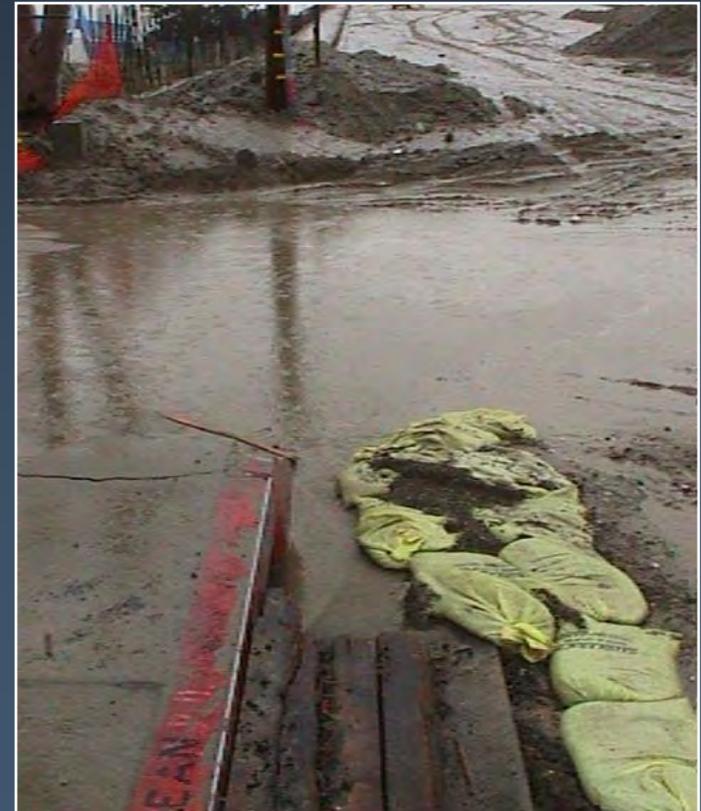
→ Course Highlights

- ⇒ RE Responsibilities Before Construction
- ⇒ Standard Special Provisions (SSPs)
- ⇒ **RE Responsibilities During Construction**
- ⇒ Project Closeout Responsibilities
- ⇒ Inspection Procedures
- ⇒ Mock Inspection
- ⇒ Maintenance of BMPs
- ⇒ Communication

- ⇒ Starting Construction
- ⇒ Inspections
- ⇒ **Notice of Discharge**
- ⇒ Payments / Sanctions
- ⇒ Annual Certification / Documentation
- ⇒ SWPPP Amendments

Notice Of Discharge

- ➔ Action required upon discovery of a discharge or if the project receives a written notice or order from any regulatory agency
- ➔ Failure to report is subject to \$32,500 fine
- ➔ See Section 9.4 of the SWMP for noncompliance reporting



Notice Of Discharge

➔ Applicable Discharges:

- ⇒ Stormwater from a DSA that discharged to a waterway without treatment by a BMP
- ⇒ Stormwater discharged to a waterway or storm drain system where control measures have been overwhelmed or not properly maintained or installed
- ⇒ Prohibited non-stormwater discharges/spills
- ⇒ Where water quality samples indicate elevated sediment or non-visible pollutants
- ⇒ Others as directed by RE



Notice Of Discharge

- ➔ Actions for noncompliant discharges:
 - ⇒ If possible, cease construction activity and/or mitigate discharge impacts
 - ⇒ RE to verbally notify CSWC
 - ⇒ Contractor to rectify the noncompliant condition
 - ⇒ Contractor to complete Notice of Discharge and submit to RE

Attachment K

Notice of Discharge

To: Name of Caltrans Resident Engineer

Date: Insert Date

Subject: Notice of Discharge

Project Name: Insert Project Name

Caltrans Contract Number: contract number

In accordance with the Caltrans NPDES Statewide Permit for Storm Water Discharges Associated with Construction Activity, the following instance of discharge is noted:

Date, time, and location of discharge

Insert description and date of event

Nature of the operation that caused the discharge

Insert description of operation

Initial assessment of any impact caused by the discharge

Insert assessment

Existing BMP(s) in place prior to discharge event

List BMPs in place

Date of deployment and type of BMPs deployed after the discharge.

BMPs deployed after the discharge (with dates)

Steps taken or planned to reduce, eliminate and/or prevent recurrence of the discharge

Insert steps taken to prevent recurrence

Implementation and maintenance schedule for any affected BMPs

Insert implementation and maintenance schedule

If further information or a modification to the above schedule is required, notify the contact person below.

Notice Of Discharge

⇒ Contents:

- ⇒ Date, time, and location of discharge
- ⇒ Nature of operation
- ⇒ Assessment of impact
- ⇒ The BMPs deployed before the discharge
- ⇒ The BMPs deployed after the discharge
- ⇒ Steps planned to reduce, eliminate and/or prevent re-occurrence
- ⇒ An implementation and maintenance schedule

RE Responsibilities During Construction

➔ Course Highlights

- ➔ RE Responsibilities Before Construction
- ➔ Standard Special Provisions (SSPs)
- ➔ **RE Responsibilities During Construction**
- ➔ Project Closeout Responsibilities
- ➔ Inspection Procedures
- ➔ Mock Inspection
- ➔ Maintenance of BMPs
- ➔ Communication

➔ Starting Construction

➔ Inspections

➔ Notice of Discharge

➔ **Payments / Sanctions**

➔ Annual Certification /
Documentation

➔ SWPPP Amendments

Progress Payments

- ➔ Cost Break Down (Schedule of Values or specific items)
- ➔ Manage SWPPP items like other contract items
- ➔ 50/50 BMP Maintenance sharing – specific BMPs are identified in Specials
- ➔ Move-In/Out (Permanent Erosion Control)

Contractual Sanctions

⇒ Enforcement tools:

- ⇒ Suspending any work that would exacerbate the noncompliance or interfere with or prevent the contractor's efforts to correct the deficiency (Standard Specifications 8-1.05)
- ⇒ Withholding funds from contract progress payments as specified in the contract (Special Provisions 10-1)

Contractual Sanctions

⇒ Enforcement Tools:

- ⇒ Hold contractor responsible for all costs and liabilities resulting from a failure to comply with Water Pollution Control special provisions (Special Provisions 10-1)
- ⇒ Discharge any subcontractor or person employed by the contractor who Caltrans deems to be incompetent or who acts in a disorderly or improper manner (Standard Specifications 5-1.12)

Contractual Sanctions

⇒ Available negative reinforcement:

- ⇒ Assessing liquidated damages including passing along fines for permit violations (Standard Specifications 8-1.07)
- ⇒ Bringing in a separate contractor or Caltrans Maintenance to complete the work (Standard Specifications 8-1.08)
- ⇒ Initiating termination of the contract (Standard Specifications 8-1.11)

Local Agency Project Sanctions

- ➔ Encroachment Permits (Oversight Projects Generally <\$1,000,000):
 - ⇒ Caltrans has the right to revoke encroachment permit for violation of the encroachment permit conditions, special provisions, or other stipulated requirements
 - ⇒ Without an encroachment permit, the local agency and their contractor are required to suspend all work on the project site
 - ⇒ The local agency and their contractor can be required to provide additional bonding, to deposit additional funds, and to pay additional fees in order for the encroachment permit to be reissued
 - ⇒ Before revoking the encroachment permit, meet with the resident engineer to discuss the issues, ask for an action plan to correct any deficiencies, and discuss possible Caltrans action if the deficiencies are not corrected. If the resident engineer does not correct the deficiencies after several meetings (usually 3), contact the local agency's person responsible for the encroachment permit, and discuss the situation
 - ⇒ The oversight engineer should discuss the situation with the deputy district director for construction and the district encroachment permit engineer before having the encroachment permit revoked

Local Agency Project Sanctions

- ➔ Cooperative Agreement (Oversight Projects Generally >\$1,000,000):
 - ⇒ If the Local Agency violates the terms and conditions of the Project construction encroachment permit, the State may require the Local Agency, at the Local Agency expense to return to its original condition or to a condition of acceptable permanent operation. If the Local Agency fails to do so, the State reserves the right to finish the Project or place the Project in satisfactory permanent operation condition
 - ⇒ Caltrans can take over a project and complete it, then be reimbursed with gas tax funds that were due the local agency
 - ⇒ Local Agency agrees to consider any request by State to discontinue the services of any personnel considered by State to be unqualified on the basis of credentials, professional expertise, and failure to perform in accordance with the scope of work and/or other pertinent criteria.

Local Agency Project Sanctions

- ➔ Deficiencies require sanctions by Caltrans. Process Review Committee or DLAE shall impose one of the following sanctions, depending on the severity and circumstances of the deficiency:
 - ➔ Freeze on all future programming of federal or state funds until corrective action is implemented.
 - ➔ Freeze progress payments for a federal-aid project until the project's Major Project Deficiency is corrected.
 - ➔ Percentage of federal or state funds for a project withdrawn.
 - ➔ All federal or state funds withdrawn from a project.
- ➔ Whether or not sanctions are imposed against a local agency, the local agency shall be expected to develop an action plan and implement it to correct the deficiencies
- ➔ Failure to correct the deficiencies in a timely manner shall be grounds for imposing additional sanctions

RE Responsibilities During Construction

→ Course Highlights

- ⇒ RE Responsibilities Before Construction
- ⇒ Standard Special Provisions (SSPs)
- ⇒ **RE Responsibilities During Construction**
- ⇒ Project Closeout Responsibilities
- ⇒ Inspection Procedures
- ⇒ Mock Inspection
- ⇒ Maintenance of BMPs
- ⇒ Communication

- ⇒ Starting Construction
- ⇒ Inspections
- ⇒ Notice of Discharge
- ⇒ Payments / Sanctions
- ⇒ **Annual Certification / Documentation**
- ⇒ SWPPP Amendments

Annual Compliance Certification

- ➔ Contractor to complete, sign and submit to RE
 - ⇒ Before June 15 of each year
 - ⇒ RE to sign and return to contractor
 - ⇒ File in the project records
 - ⇒ \$10,000 fine and/or up to 2 years imprisonment for knowingly falsifying records

Attachment M
Annual Certification of Compliance Form

INSTRUCTIONS

- By June 15th of each year, the Contractor shall complete and submit this form to the Resident Engineer for approval as required in Section 100.3 of the SWPPP. Annual certification of compliance is based on the site inspections required in the SWPPP.
- Completed and signed Annual Certifications and Approvals shall be included in Section 100.3 of the SWPPP following the required text of the section.
- This Annual Certification of Compliance form does not need to be completed at the initial approval, but it shall be submitted during the first year of the initial SWPPP approval.

Annual Certification of Compliance for the Construction Contractor

Project Name: _____

Caltrans Contract Number: _____

Contractor Company Name: _____

Contractor Address: _____

Construction Start Date: _____ Completion Date: _____

Description of Work:

Work Now in Progress:

 Caltrans Storm Water Quality Handbooks
SWPPP/WPCP Preparation Manual
November 2000

Annual Certification of Compliance
1 of 3

Annual Compliance Certification

➔ **Form Requirements for the Contractor**

- ⇒ Project Name
- ⇒ Caltrans Contract Number
- ⇒ Contractors Company Name
- ⇒ Contractors Address
- ⇒ Construction Start and Completion Dates
- ⇒ Description of Work
- ⇒ Work In Progress
- ⇒ Work planned for the Next 12 Months
- ⇒ Contractors Signature and Date

Annual Compliance Certification

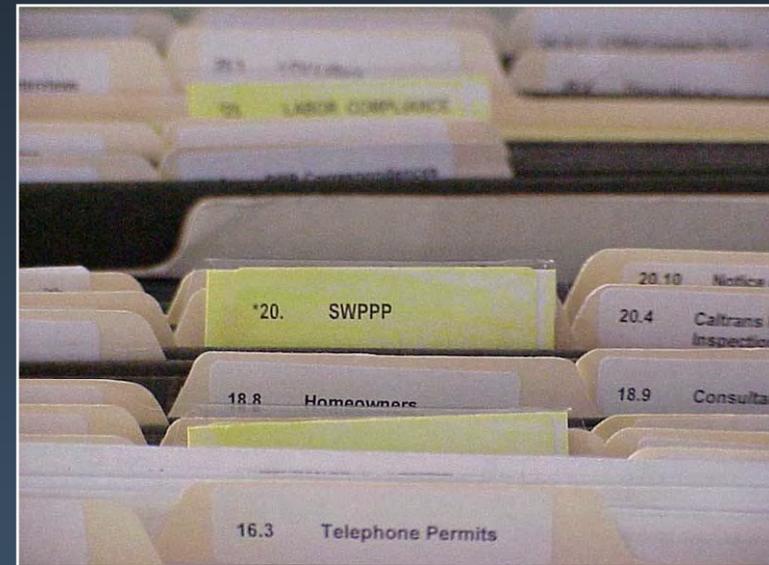
➔ Approval of the Resident Engineer

- ⇒ Are stormwater pollution control measures being implemented in accordance with the approved SWPPP?
- ⇒ Are the project site and activities in compliance with the Caltrans Statewide Permit, NPDES General Permit, or local permit?
- ⇒ If no is answered to either of these questions the RE must:
 - File a notice of non-compliance within 30 days of identification
 - Document follow up actions
 - Notify the contractor
 - Initiate corrective actions in accordance with the contract
- ⇒ RE Signature and Date

Contract Documentation

➔ Category 20 files

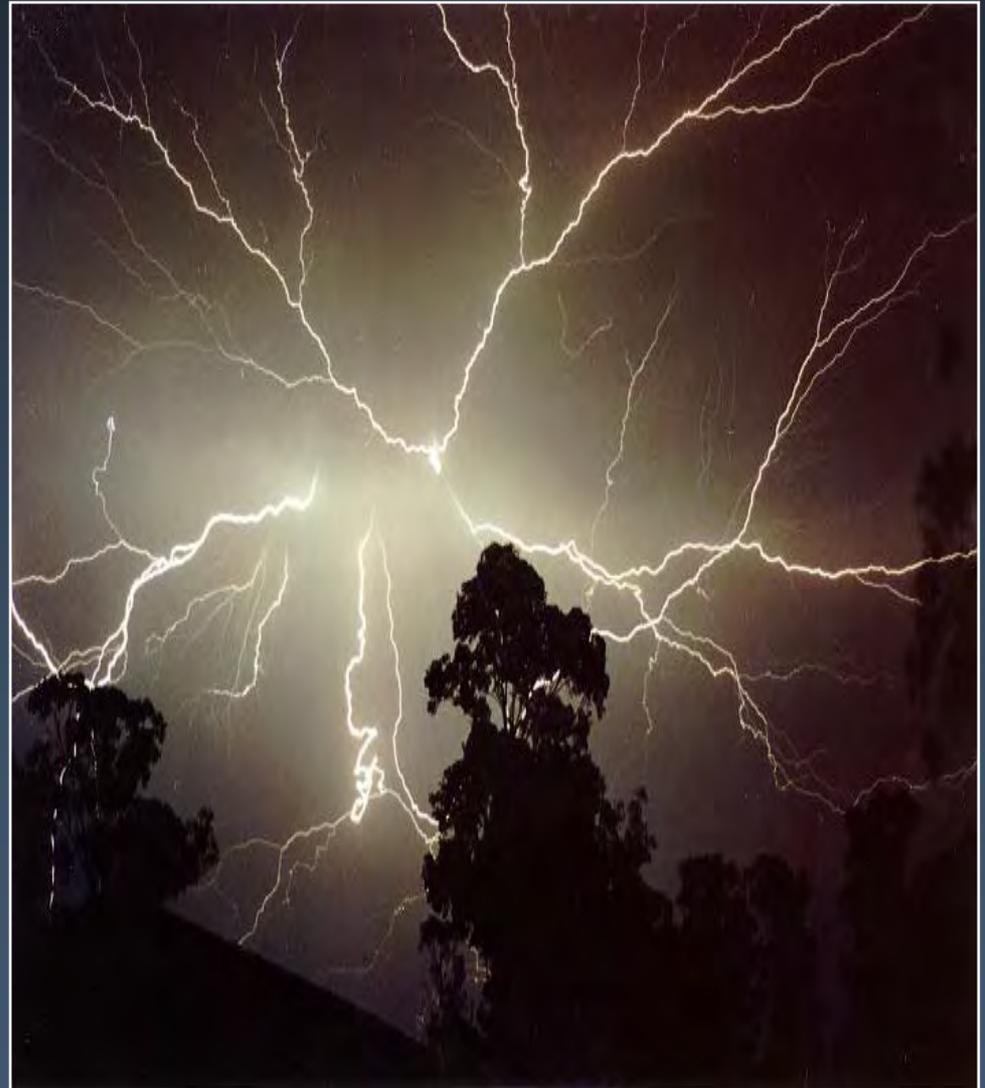
- ⇒ SWPPP/WPCP
- ⇒ Amendments
- ⇒ Annual certification
- ⇒ Contractor inspection reports
- ⇒ Caltrans inspection reports
- ⇒ Correspondence with the contractor
- ⇒ SWTF inspection reports
- ⇒ Correspondence with regulatory agencies



Project Closeout Responsibilities

➔ Course Highlights

- ⇒ RE Responsibilities Before Construction
- ⇒ Standard Special Provisions (SSPs)
- ⇒ RE Responsibilities During Construction
- ⇒ **Project Closeout Responsibilities**
- ⇒ Inspection Procedures
- ⇒ Mock Inspection
- ⇒ Maintenance of BMPs
- ⇒ Communication



Project Closeout Responsibilities

➔ Course Highlights

- ➔ RE Responsibilities Before Construction
- ➔ Standard Special Provisions (SSPs)
- ➔ RE Responsibilities During Construction
- ➔ **Project Closeout Responsibilities**
- ➔ Inspection Procedures
- ➔ Mock Inspection
- ➔ Maintenance of BMPs
- ➔ Communication

- ➔ Maintenance Review
- ➔ Relief for Maintenance
- ➔ Contract Acceptance
- ➔ Terminating Permit Coverage
- ➔ Post-construction meeting with Design
- ➔ Retention of Records

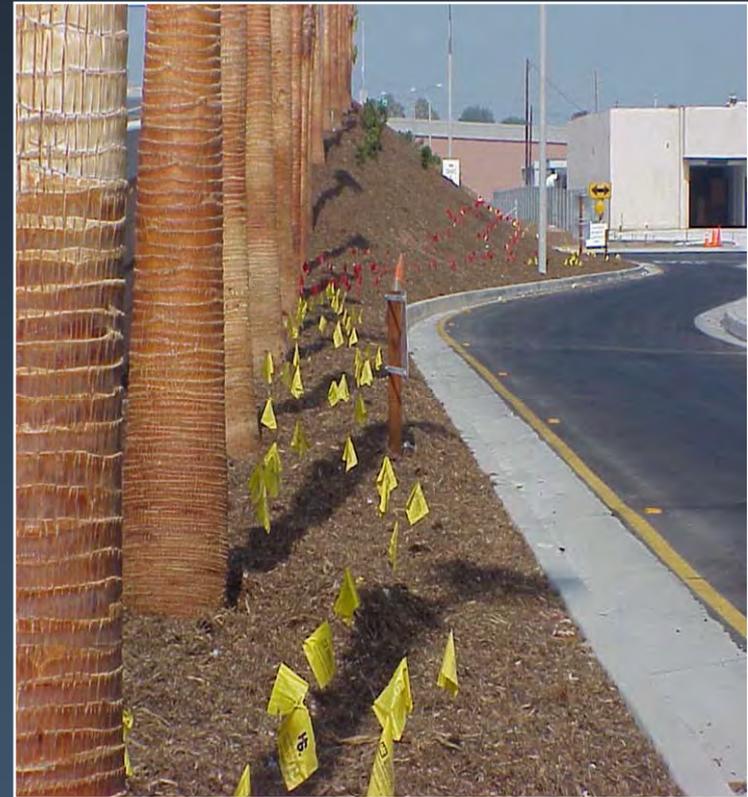
Maintenance Review

- ➔ **Conduct at 90% complete**
- ➔ **Conduct with Maintenance Superintendent/Supervisor**
- ➔ **During field review, discuss:**
 - ⇒ Temporary BMPs to remain
 - ⇒ Permanent structural stormwater BMP devices
 - ⇒ Requested field adjustments
- ➔ **Furnish information pertaining to permanent BMP devices (RE Pending File)**



Relief From Maintenance

- ➔ Construction Manual 2-07 and Standard Specifications Section 7-1.15
- ➔ Upon request, the Contractor may be relieved from the duty of maintaining and protecting certain completed portions of the work
- ➔ To qualify, such portions must be completed in all respects (including water pollution control) in accordance with the requirements of the contract and to the satisfaction of the RE



Contract Acceptance

- ➔ **Construction Manual 2-07 and Standard Specifications Section 7-1.17**
- ➔ **Post construction BMP devices implemented**
 - ⇒ Final erosion control
 - ⇒ Planting and irrigation
- ➔ **Temporary controls removed and properly disposed**



Terminating Permit Coverage

- ➔ Complete construction
- ➔ Meet final stabilization requirements
- ➔ Notice of Completion of Construction (NCC)



Terminating Permit Coverage

➔ Final Stabilization Requirements

⇒ **Special Provision requirements**

⇒ **NPDES permit requirements**

- Areas where construction has been completed in conformance with the contract plans and permanent erosion control is in place and functional.
- Erosion control is considered functional when a uniform vegetative cover equivalent to 70 percent of the native background vegetation coverage has been established or equivalent stabilization measures have been employed.



Terminating Permit Coverage

- ➔ The Notice of Completion of Construction (NCC) equivalent to the NOT
- ➔ Take photographs documenting compliance with permit conditions and include with NCC
- ➔ Insert into SWPPP Attachment P at end of project
- ➔ Only required for SWPPP projects

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION
NOTICE OF COMPLETION OF CONSTRUCTION
CP-CEM-2003 (NEW 4/12/2000)
IN COMPLIANCE WITH CALTRANS STATEWIDE NPDES STORM WATER PERMIT Order No. 99-06 DWQ, NPDES No. CAS000003

I. IDENTIFICATION

PROJECT	CONTRACT NUMBER EA	DATE MM/DD/YYYY			
CITY (if applicable)	COUNTY	ROUTE	KILOMETER POST / POST MILE (S)	START DATE	END DATE

II. CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARDS

<input type="checkbox"/> Region 1, North Coast	<input type="checkbox"/> Region 5, Central Valley	<input type="checkbox"/> Region 6, Laboran	<input type="checkbox"/> Region 7, Colorado River
<input type="checkbox"/> Region 2, San Francisco Bay	<input type="checkbox"/> Sacramento	<input type="checkbox"/> South Lake Tahoe	<input type="checkbox"/> Region 8, Santa Ana
<input type="checkbox"/> Region 3, Central Coast	<input type="checkbox"/> Fresno	<input type="checkbox"/> Victorville	<input type="checkbox"/> Region 9, San Diego
<input type="checkbox"/> Region 4, Los Angeles	<input type="checkbox"/> Redding		

III. CALTRANS DISTRICT

NAME/NUMBER	PROJECT CONTACT
ADDRESS	POSITION TITLE
CITY	PHONE
ZIP	

IV. BASIS OF COMPLETION

1. The construction job is complete and requirements met as of Date: _____

2. Construction activities have been suspended, as of Date: _____ Expected Start Up Date: _____

3. Site can not discharge storm water to waters of the United States Reason: _____

4. Discharge is now subject to NPDES Permit No. _____ Date: _____

V. DESCRIPTION OF COMPLETION (Attach site photographs)

VI. 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 to those persons directly responsible for gathering the information, the information submitted is true, accurate, and complete to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of _____

SIGNATURE _____

PRINT/TYPE NAME _____

DATE _____

TITLE _____

Available online at <http://www.dot.ca.gov/hq/construc/cpb/CEM2003.pdf>

Terminating Permit Coverage

- ➔ Until all requirements for completion are met, the project must still comply with the permit including:
 - ⇒ The SWPPP must remain on site during working hours
 - ⇒ Site inspections continue prior to, during, and after storm events
 - ⇒ The June 15 Annual Certification of Compliance
 - ⇒ Notice of Discharge reporting

Post-Construction Meeting With Design

➔ Lessons Learned

- ➔ Discussion of what worked and what didn't work
- ➔ Allows for incorporation of lessons learned into future designs



Retention Of Records

- ➔ Retain the following records for a period of at least 3 years from the date generated:
 - ⇒ Approved SWPPP documents and amendments
 - ⇒ Records of all inspections
 - ⇒ Compliance certifications
 - ⇒ Notification of Construction
 - ⇒ Notice of Discharge reporting
 - ⇒ Notice of Completion of Construction/Notice of Intent

Summary

- ➔ The REs SWPPP responsibilities are many!
 - ⇒ Assistance should be obtained when necessary, especially for larger projects
- ➔ Resources available to you
 - ⇒ CSWC
 - ⇒ Manuals - BMP / SWPPP-WPCP / Construction
 - ⇒ HQ Construction Assistance Program
- ➔ Be proactive, not reactive!

Inspection Procedures

◆ Course Highlights

- RE Responsibilities Before Construction
- Standard Special Provisions (SSPs)
- RE Responsibilities During Construction
- Project Closeout Responsibilities
- ***Inspection Procedures***
- Mock Inspection
- Maintenance of BMPs
- Communication



Inspection Procedures Outline

- ◆ Pre-Site Inspection Preparation Work
- ◆ Review Field Inspection Techniques

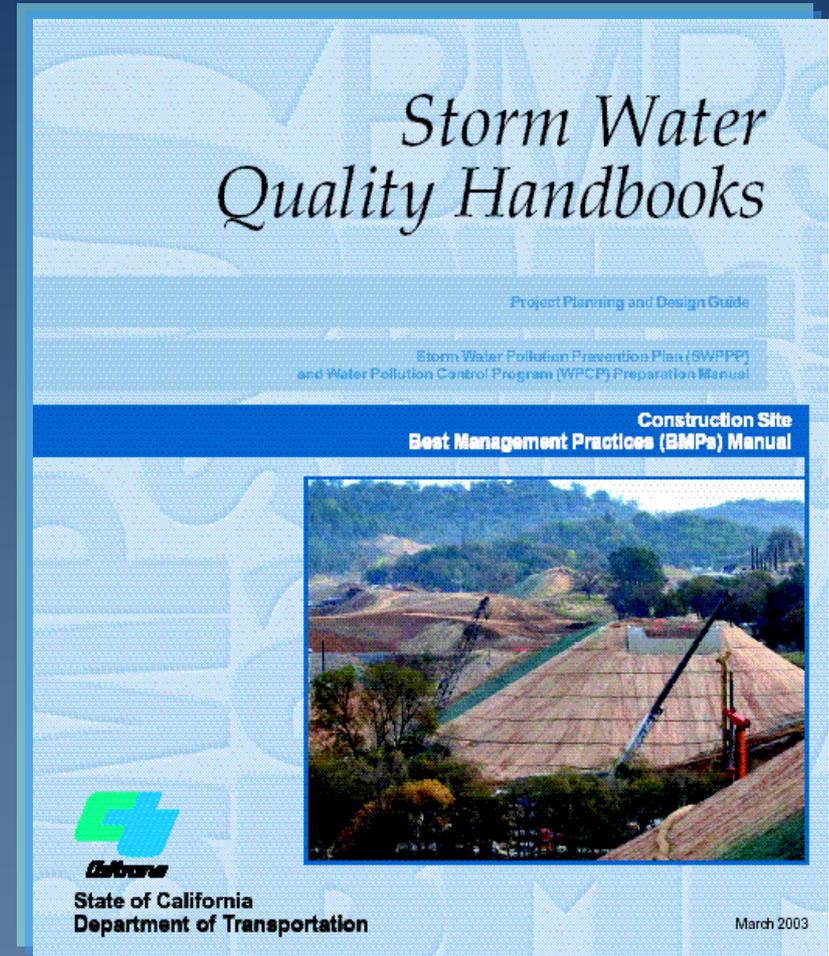
Pre-Site Inspection Preparation Work

- ◆ Review the Plans / Contract Documents
 - BMP Reference Manual
 - Standard Specifications
 - Project Plans
 - Special Provisions
 - Storm Water Pollution Prevention Plans - SWPPP WPCP Prep Manual
 - ◆ Water Pollution Control Drawings
 - ◆ Project Schedule
 - Project File
 - Permits



Pre-Site Inspection Preparation Work

- ◆ Caltrans Storm Water Quality Handbooks
 - Construction Site BMPs Reference Manual, 2003 edition

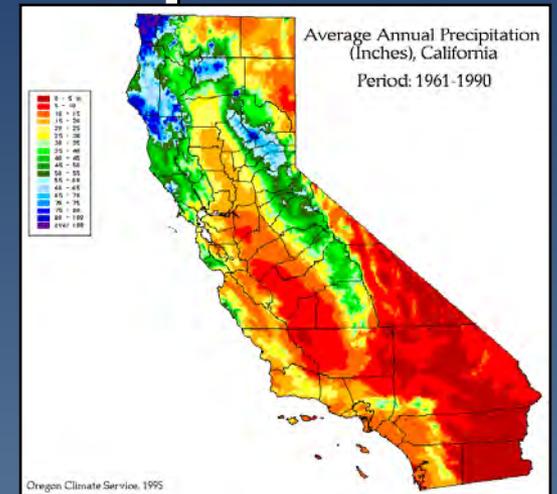


Pre-Site Inspection Preparation Work

Know and Understand the Compliance Requirements

◆ Definitions

- Designation of Rainy Seasons
- Area Definitions
- DSA Protection by Temporary Soil Stabilization and Temporary Sediment Controls
- Active Areas
- Non-Active Areas



Pre-Site Inspection Preparation Work

- ◆ Implementation requirements – SWPPP/WPCP Preparation Manual
 - Figure 1-1
 - Tables 1-2, 1-3, and 1-4



Figure 1-1 DESIGNATION OF RAINY SEASONS

Introduction and Background

Introduction and Background

Table 1-2

RAINFALL AREA DEFINITIONS		
Rainfall Area	Applicability	Elevation
1	District 1 in the following areas: all of Del Norte and Humboldt Counties within 25 miles of the coast in Mendocino County	>3,900 ft
2	District 1 (except within Area 1); Districts 3, 4 and 5; District 10	>800 ft
3	District 1 (except within Area 1); District 2 within the North Coast, Lahontan, and Central Valley RWQCB jurisdictions Districts 3, 4 and 5; District 10	800 ft - 3,900 ft
4	District 8 within the Central Valley RWQCB jurisdiction District 7 within the Central Coast, Los Angeles, and Central Valley RWQCB jurisdictions District 11 within the Santa Ana and San Diego RWQCB jurisdictions District 12	>11,000 ft
5	District 8 within the Central Valley RWQCB jurisdiction District 7 within the Central Coast, Los Angeles, and Central Valley RWQCB jurisdictions District 8 within the Santa Ana and San Diego RWQCB jurisdictions District 11 within the San Diego RWQCB jurisdiction District 12	1,600 ft - 3,900 ft
6	Statewide	>3,900 ft
7	District 8 within the Lahontan RWQCB jurisdiction District 7 within the Lahontan RWQCB jurisdiction District 8 within the Lahontan and Colorado River Basin RWQCB jurisdictions District 9 District 11 within the Colorado River Basin RWQCB jurisdiction	>3,900 ft

Section 1
10 of 19

Introduction and Background

Table 1-3

REQUIRED COMBINATION OF TEMPORARY SOIL STABILIZATION AND TEMPORARY SEDIMENT CONTROLS AND BARRIERS ⁽¹⁾						
NON-ACTIVE DISTURBED SOIL AREAS						
SEASON	RAINFALL AREAS ⁽²⁾	TEMPORARY BMP	SLOPE (%)(³)			
			≤ 1.20	1.21 - 1.4	1.41 - 1.2	> 1.2
RAINY ⁽⁴⁾	1 & 6	SOIL STABILIZATION ⁽⁵⁾	X ⁽⁶⁾	X ⁽⁶⁾	X ⁽⁶⁾	X ⁽⁶⁾
		SEDIMENT BARRIER ⁽⁵⁾	X	X	X	X
		DESIGN BASIN ⁽⁵⁾		X	X	X
		DESIGN TRENCH ⁽⁵⁾	X	X	X	X
NON-RAINY ⁽⁴⁾	1	SOIL STABILIZATION ⁽⁵⁾	X ⁽⁶⁾	X ⁽⁶⁾	X	X
		SEDIMENT BARRIER ⁽⁵⁾	X	X	X	X
		DESIGN BASIN ⁽⁵⁾		X	X	X
		DESIGN TRENCH ⁽⁵⁾	X	X	X	X

- Unless otherwise noted, the BMP is required for the slope indications indicated on slope lengths greater than 10 ft.
- The maximum slope length is 100 ft for slope indications between 1.20 (V)H and 1.2 (V)H and 30 ft for steeper slopes.
- Required in addition to the temporary sediment barrier, where feasible. Feasibility will depend on site specific factors such as available right-of-way within the project limits, topography, soil type, disturbed soil area within watershed, and climate conditions. Implementation of controls not required except prior to predicted rain events.
- The indicated temporary BMP is required at all slope lengths.
- Sediment controls and barriers include all temporary sediment control construction BMPs identified in the Statewide Storm Water Management Plan (SSWMP). Linear barrier systems are required to what are referred to in the General Construction Permit as perimeter controls. The intent is to provide a barrier to prevent the transport of sediment at the downslope edge of disturbed soil areas.
- Implementation of soil stabilization controls are required within 14 days of completion of soil disturbing activities or one day prior to predicted rain events, whichever occurs first.
- Refer to Section 1.4.3 for procedures.

Section 1
17 of 19

Introduction and Background

Table 1-4

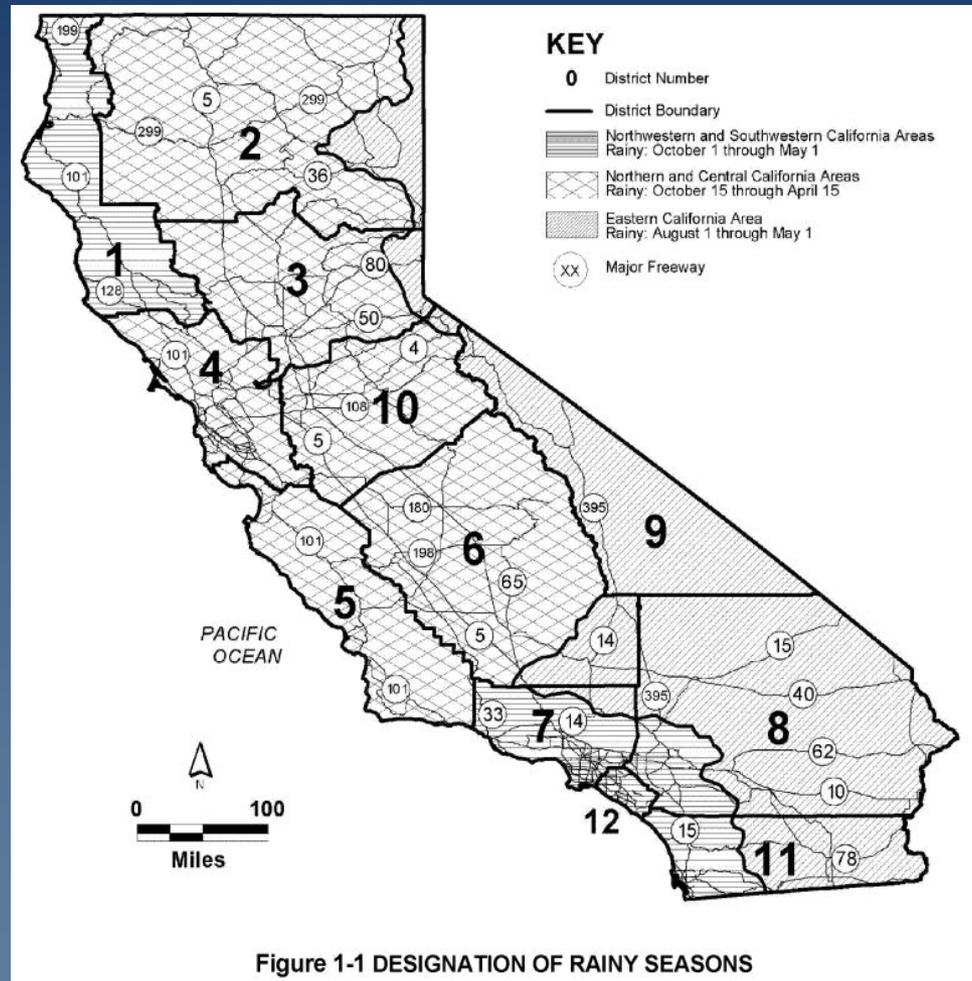
REQUIRED COMBINATION OF TEMPORARY SOIL STABILIZATION AND TEMPORARY SEDIMENT CONTROLS AND BARRIERS ⁽¹⁾					
ACTIVE DISTURBED SOIL AREAS ⁽¹⁾					
SEASON	RAINFALL AREAS ⁽²⁾	TEMPORARY BMP	SLOPE (%)(³)		
			≤ 1.20	> 1.20 ≤ 1.2	> 1.2
RAINY ⁽⁴⁾	1 & 6	SOIL STABILIZATION ⁽⁵⁾	X	X	X
		SEDIMENT BARRIER ⁽⁵⁾	X	X	X
		DESIGN BASIN ⁽⁵⁾		X	X
		DESIGN TRENCH ⁽⁵⁾	X	X	X
NON-RAINY ⁽⁴⁾	2, 3, 4 & 5	SOIL STABILIZATION ⁽⁵⁾	X	X	X
		SEDIMENT BARRIER ⁽⁵⁾	X	X	X
		DESIGN BASIN ⁽⁵⁾		X	X
		DESIGN TRENCH ⁽⁵⁾	X	X	X
NON-RAINY ⁽⁴⁾	3	SOIL STABILIZATION AND SEDIMENT CONTROL PRACTICES TO BE DETERMINED BY APPLICABLE RWQCB ⁽⁶⁾			
		SOIL STABILIZATION			
		SEDIMENT BARRIER			
		DESIGN BASIN			
NON-RAINY ⁽⁴⁾	7	SOIL STABILIZATION AND SEDIMENT CONTROL PRACTICES TO BE DETERMINED BY APPLICABLE RWQCB ⁽⁶⁾			
		SOIL STABILIZATION			
		SEDIMENT BARRIER			
		DESIGN BASIN			

- Unless otherwise noted, the BMP is required for the slope indications indicated on slope lengths greater than 10 ft.
- Required in addition to the temporary sediment barrier, where feasible. Feasibility will depend on site specific factors such as available right-of-way within the project limits, topography, soil type, disturbed soil area within watershed, and climate conditions. Implementation of soil stabilization controls are not required except prior to predicted rain.
- The indicated temporary BMP is required on slope lengths greater than 30 ft.
- Sediment controls and barriers include all temporary sediment control construction BMPs identified in the Statewide Storm Water Management Plan (SSWMP). Linear barrier systems are required to what are referred to in the General Construction Permit as perimeter controls. The intent is to provide a barrier to prevent the transport of sediment at the downslope edge of disturbed soil areas.
- Refer to Section 1.4.3 for procedures.

Section 1
18 of 19

Section 1
11 of 19

How the Tables Work



How the Tables Work

Table 1-2

RAINFALL AREA DEFINITIONS		
Rainfall Area	Applicability	Elevation
1	District 1 in the following areas: all of Del Norte and Humboldt Counties within 20 miles of the coast in Mendocino County	≤3,900 ft
2	District 1 (except within Area 1) District 2 within the North Coast, Lahontan, and Central Valley RWQCB jurisdictions Districts 3, 4 and 5 District 10	<800 ft
3	District 1 (except within Area 1) District 2 within the North Coast, Lahontan, and Central Valley RWQCB jurisdictions Districts 3, 4 and 5 District 10	800 ft – 3,900 ft
4	District 6 within the Central Valley RWQCB jurisdiction District 7 within the Central Coast, Los Angeles, and Central Valley RWQCB jurisdictions District 8 within the Santa Ana and San Diego RWQCB jurisdictions District 11 within the San Diego RWQCB jurisdiction District 12	<1,600 ft
5	District 6 within the Central Valley RWQCB jurisdiction District 7 within the Central Coast, Los Angeles, and Central Valley RWQCB jurisdictions District 8 within the Santa Ana and San Diego RWQCB jurisdictions District 11 within the San Diego RWQCB jurisdiction District 12	1,600 ft – 3,900 ft
6	Statewide	>3,900 ft
7	District 6 within the Lahontan RWQCB jurisdiction District 7 within the Lahontan RWQCB jurisdiction District 8 within the Lahontan and Colorado River Basin RWQCB jurisdictions District 9 District 11 within the Colorado River Basin RWQCB jurisdiction	≤3,900 ft

How the Tables Work

Table 1-3

REQUIRED COMBINATION OF TEMPORARY SOIL STABILIZATION AND TEMPORARY SEDIMENT CONTROLS AND BARRIERS ⁽⁶⁾						
NON-ACTIVE DISTURBED SOIL AREAS						
SEASON	RAINFALL AREA(S)	TEMPORARY BMP	SLOPE (V:H) ⁽¹⁾			
			≤ 1:20	> 1:20 ≤ 1:4	> 1:4 ≤ 1:2	> 1:2
RAINY ⁽²⁾	1 & 6	SOIL STABILIZATION ⁽⁵⁾	X ⁽⁷⁾	X ⁽⁷⁾	X ⁽⁷⁾	X ⁽⁷⁾
		SEDIMENT BARRIER ⁽⁵⁾	X	X	X	X
		DESILTING BASIN ⁽⁵⁾		X	X	X
	2, 3, 4 & 5	SOIL STABILIZATION ⁽⁵⁾	X ⁽⁷⁾	X ⁽⁷⁾	X ⁽⁷⁾	X ⁽⁷⁾
		SEDIMENT BARRIER		X	X	X
		DESILTING BASIN				
	7	SOIL STABILIZATION AND SEDIMENT CONTROL PRACTICES TO BE DETERMINED BY APPLICABLE RWQCB ⁽⁸⁾				
NON-RAINY	1	SOIL STABILIZATION ⁽⁵⁾	X ⁽⁴⁾	X ⁽⁴⁾	X	X
		SEDIMENT BARRIER		X ⁽⁴⁾	X	X
		DESILTING BASIN				
	2 & 4	SOIL STABILIZATION				
		SEDIMENT BARRIER				
		DESILTING BASIN				
	3 & 5	SOIL STABILIZATION				
		SEDIMENT BARRIER				X ⁽⁴⁾
		DESILTING BASIN				
	6	SOIL STABILIZATION ⁽⁵⁾	X ⁽⁴⁾	X ⁽⁴⁾	X	X
		SEDIMENT BARRIER		X ⁽⁴⁾	X	X
		DESILTING BASIN ⁽⁵⁾				X
	7	SOIL STABILIZATION AND SEDIMENT CONTROL PRACTICES TO BE DETERMINED BY APPLICABLE RWQCB ⁽⁸⁾				

- (1) Unless otherwise noted, the temporary BMP is required for the slope inclinations indicated on slope lengths greater than 10 ft.
- (2) The maximum slope length is 100 ft for slope inclinations between 1:20 (V:H) and 1:2 (V:H) and 50 ft for steeper slopes, otherwise slope benching or other techniques shall be employed.
- (3) Required in addition to the temporary sediment barrier, where feasible. Feasibility will depend on site-specific factors such as available right-of-way within the project limits, topography, soil type, disturbed soil area within watershed, and climate conditions.
- (4) Implementation of controls not required except at least 24 hours prior to all predicted rain events.
- (5) The indicated temporary BMP is required on all slope lengths.
- (6) Sediment controls and barriers include all temporary sediment control construction BMPs identified in the Statewide Storm Water Management Plan (SWMP). Linear barrier systems are equivalent to what are referred to in the General Construction Permit as perimeter controls. The intent is prevent the transport of sediment at the downslope edge of disturbed soil areas.
- (7) Implementation of soil stabilization controls are required within 14 days of cessation of soil disturbing activities or one day prior to all predicted rain events, whichever occurs first.
- (8) Refer to Section 1.4.5 for procedure.

How the Tables Work

Table 1-4

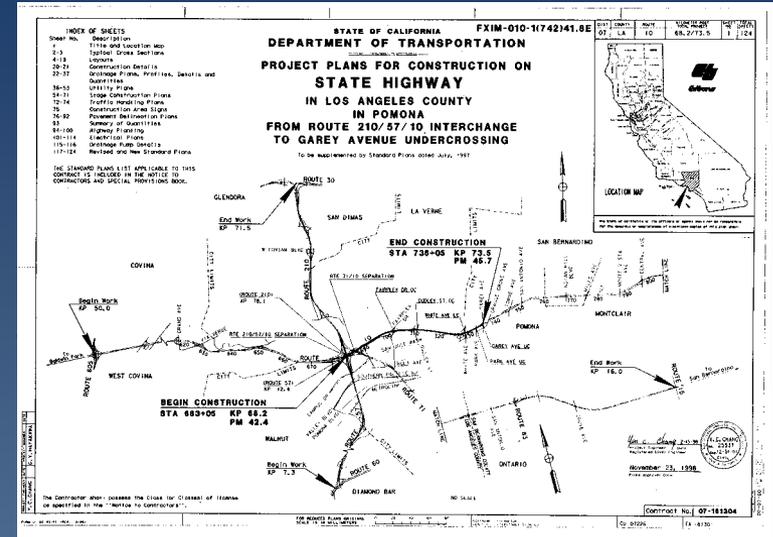
REQUIRED COMBINATION OF TEMPORARY SOIL STABILIZATION AND TEMPORARY SEDIMENT CONTROLS AND BARRIERS ⁽⁶⁾					
ACTIVE DISTURBED SOIL AREAS ⁽³⁾					
SEASON	RAINFALL AREA(S)	TEMPORARY BMP	SLOPE (V:H) ⁽¹⁾		
			≤ 1:20	> 1:20 ≤ 1:2	> 1:2
RAINY	1 & 6	SOIL STABILIZATION		X	X
		SEDIMENT BARRIER ⁽⁴⁾	X	X	X
		DESILTING BASIN ⁽²⁾		X	X
	2, 4 & 5	SOIL STABILIZATION			
		SEDIMENT BARRIER		X	X
		DESILTING BASIN ⁽²⁾			X
	3	SOIL STABILIZATION			X ⁽⁵⁾
		SEDIMENT BARRIER		X	X
		DESILTING BASIN ⁽²⁾			X
	7	SOIL STABILIZATION AND SEDIMENT CONTROL PRACTICES TO BE DETERMINED BY APPLICABLE RWQCB ⁽⁷⁾			
NON-RAINY	1	SOIL STABILIZATION			
		SEDIMENT BARRIER		X	X
		DESILTING BASIN ⁽²⁾			X
	2, 3, 4 & 5	SOIL STABILIZATION			
		SEDIMENT BARRIER			
		DESILTING BASIN			
	6	SOIL STABILIZATION			
		SEDIMENT BARRIER		X	X
		DESILTING BASIN ⁽²⁾			X
	7	SOIL STABILIZATION AND SEDIMENT CONTROL PRACTICES TO BE DETERMINED BY APPLICABLE RWQCB ⁽⁷⁾			

- (1) Unless otherwise noted, the BMP is required for the slope inclinations indicated on slope lengths greater than 10 ft.
- (2) Required in addition to the temporary sediment barrier, where feasible. Feasibility will depend on site-specific factors such as available right-of-way within the project limits, topography, soil type, disturbed soil area within watershed, and climate conditions.
- (3) Implementation of soil stabilization controls are not required except prior to predicted rain.
- (4) The indicated temporary BMP required on all slope lengths.
- (5) The indicated temporary BMP required on slope lengths greater than 50 ft.
- (6) Sediment controls and barriers include all temporary sediment control construction BMPs identified in the Statewide Storm Water Management Plan (SWMP). Linear barrier systems are equivalent to what are referred to in the General Construction Permit as perimeter controls. The intent is to provide a barrier to prevent the transport of sediment at the downslope edge of disturbed soil areas.
- (7) Refer to Section 1.4.5 for procedures.

Pre-Site Inspection Preparation Work

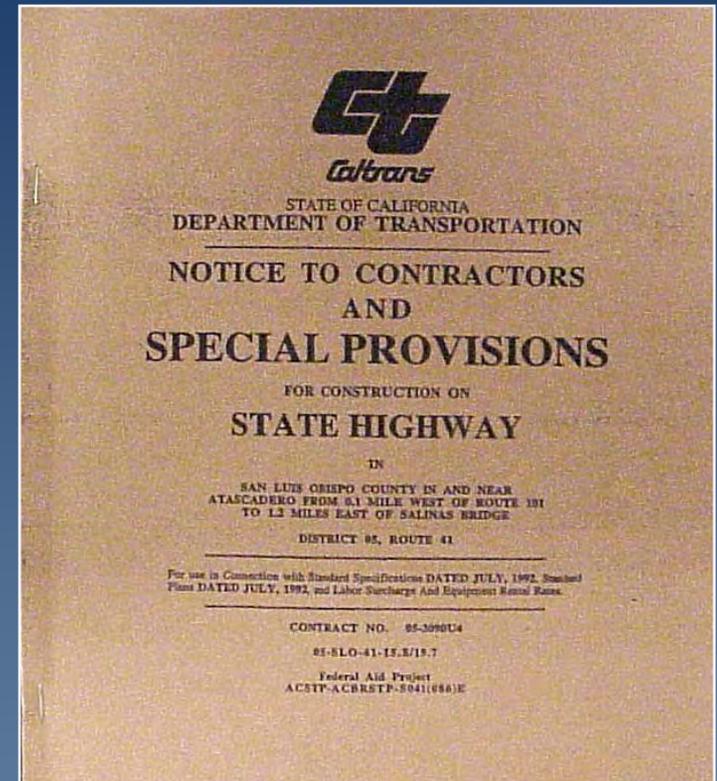
Review Project Plans

- ◆ Project plans should be reviewed in the context of water pollution control
- ◆ Prior to initial inspection or prior to rainy season inspection, review for:
 - general layout
 - existing drainage courses
 - what is being constructed
 - R of W limits
- ◆ Review Current Stage as it relates to Water Pollution Control



Pre-Site Inspection Preparation Work

- ◆ **Review the Special Provisions**
 - Table of Contents
 - Section 10 - Water Pollution Control
 - Temporary BMPs
 - Section 10 - Erosion Control (Permanent)
 - Relations with Other Agencies
 - Bid Items
 - Special requirements



Pre-Site Inspection Preparation Work

Review the Special Provisions

- ◆ Table of Contents
 - Quickly outlines scope of work

ORDER OF WORK

CLEARING AND GRUBBING

EARTHWORK

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Pre-Site Inspection Preparation Work

Review the Special Provisions

- ◆ Section 10 - Water Pollution Control
- ◆ Due dates for SWPPP / WPCP submittal
- ◆ SWPPP Implementation
 - Rainy season dates
 - Active DSA size limits
- ◆ BMP Maintenance and Inspection Requirements

WATER POLLUTION CONTROL

10.1.02 WATER POLLUTION CONTROL (STORM WATER POLLUTION PREVENTION PLAN)

Water pollution control work shall conform to the provisions in Section 7-1.01G, "Water Pollution," of the Standard Specifications and these special provisions.

This project lies within the boundaries of the North Coast Regional Water Quality Control Board and shall conform to the requirements of the National Pollutant Discharge Elimination System (NPDES) Permit for General Construction Activities No. CAS000002, Order No. 99-08-DWQ, and the NPDES Permit for the State of California Department of Transportation Properties, Facilities, and Activities, No. CAS000003, Order No. 99-06-DWQ issued by the State Water Resources Control Board. These permits, hereafter referred to as the "Permits," regulate storm water discharges associated with construction activities.

Water pollution control work shall conform to the requirements in the "Storm Water Pollution Prevention Plan (SWPPP) and Water Pollution Control Program (WPCP) Preparation Manual" and the "Construction Site Best Management Practices (BMPs) Manual," and addenda thereto issued up to, and including, the date of advertisement of the project, hereafter referred to respectively as the "Preparation Manual" and the "Construction Site BMP Manual" and collectively as the "Manuals." Copies of the Manuals and the Permits may be obtained from the Department of Transportation, Material Operations Branch, Publication Distribution Unit, 1900 Royal Oaks Drive, Sacramento, California 95815, Telephone: (916) 445-3520. Copies of the Manuals may also be obtained from the Department's Internet Web Site at: <http://www.dot.ca.gov/hq/construct/stormwater.html>.

The Contractor shall know and fully comply with the applicable provisions of the Manuals, Permits, and Federal, State, and local regulations that govern the Contractor's operations and storm water discharges from both the project site and areas of disturbance outside the project limits during construction. The Contractor shall maintain copies of the Permits at the project site and shall make the Permits available during construction.

Unless arrangements for disturbance or use of areas outside the project limits are made by the Department and made part of the contract, it is expressly agreed that the Department assumes no responsibility for the Contractor or property owner with respect to any arrangements made between the Contractor and property owner. The Contractor shall implement, inspect and maintain all necessary water pollution control practices to satisfy all applicable Federal, State, and Local laws and regulations that govern water quality for areas used outside of the highway right-of-way or areas arranged for the specific use of the Contractor for this project. Installing, inspecting, and maintaining water pollution control practices on areas outside the highway right-of-way not specifically arranged for and provided for by the Department for the execution of this contract will not be paid for.

The Contractor shall be responsible for the costs and for liabilities imposed by law as a result of the Contractor's failure to comply with the provisions set forth in this section "Water Pollution Control", including but not limited to, compliance with the applicable provisions of the Manuals, Permits and Federal, State and local regulations. Costs and liabilities include, but are not limited to, fines, penalties, and damages whether assessed against the State or the Contractor, including those levied under the Federal Clean Water Act and the State Porter Cologne Water Quality Act.

In addition to the remedies authorized by law, money due the Contractor under the contract, in an amount determined by the Department, may be retained by the State of California until disposition has been made of the costs and liabilities.

When a regulatory agency or other third party identifies a failure to comply with the permit or any other local, State, or federal requirement, the Engineer may retain money due the Contractor, subject to the following:

- The Department will give the Contractor 30 days notice of the Department's intention to retain funds from partial payments which may become due to the Contractor prior to acceptance of the contract. Retention of funds from payments made after acceptance of the contract may be made without prior notice to the Contractor.
- No retention of additional amounts out of partial payments will be made if the amount to be retained does not exceed the amount being withheld from partial payments pursuant to Section 9-1.06, "Partial Payments," of the Standard Specifications.
- If the Department has retained funds and it is subsequently determined that the State is not subject to the costs and liabilities in connection with the matter for which the retention was made, the Department shall be liable for interest on the amount retained for the period of the retention, and the rate of interest payable shall be 6 percent per annum.

Conformance with the provisions of this section "Water Pollution Control" shall not relieve the Contractor from the Contractor's responsibilities, as provided in Section 7, "Legal Relations and Responsibilities," of the Standard Specifications.

The Contractor shall notify the Engineer immediately upon request from the regulatory agencies to enter, inspect, sample, monitor or otherwise access the project site or the Contractor's records pertaining to water pollution control work.

STORM WATER POLLUTION PREVENTION PLAN PREPARATION, APPROVAL AND AMENDMENTS

As part of the water pollution control work, a Storm Water Pollution Prevention Plan, hereafter referred to as the "SWPPP," is required for this contract. The SWPPP shall conform to the provisions in Section 7-1.01G, "Water Pollution,"

Pre-Site Inspection Preparation Work

Review the Special Provisions

- ◆ Temporary BMPs
- ◆ Minimum BMP requirements for all BMP categories
- ◆ Required BMPs identified in the plans
- ◆ BMPs identified in a conceptual SWPPP (some districts)

Pre-Site Inspection Preparation Work

Review the Special Provisions

◆ Section 10 - Erosion Control (Permanent)

10-1.22 EROSION CONTROL (TYPE C)

Erosion control (Type C) shall conform to the provisions in Section 20-3, "Erosion Control," of the Standard Specifications and these special provisions.

Erosion control (Type C) work shall consist of incorporating straw and applying seed and commercial fertilizer to embankment slopes 1:4 (vertical:horizontal) or steeper, and other areas designated by the Engineer. Erosion control (Type C) shall be applied during the period starting November 15 and ending March 15; or, if the slope on which the erosion control is to be placed is finished during the winter season as specified in "Water Pollution Control" elsewhere in the Special Provisions, the erosion control shall be applied immediately; or, if the slope on which the erosion control is to be placed is finished outside both specified periods and the contract work will be completed before November 15, the erosion control shall be applied as a last item of work.

Erosion control materials, soil surface preparation shall conform to the provisions in Section 20-3 of the Standard Specifications, except that rills and gullies exceeding 50 mm in depth or width shall be filled. temporary erosion control materials and other debris shall be removed from areas to be protected.

MATERIALS.—Materials shall conform to the provisions in Section 20-2, "Materials," of the Standard Specifications and the following:

SEED.—Seed shall conform to the provisions in Section 20-2.10, "Seed," of the Standard Specifications. Individual seed species shall be measured and mixed in the presence of the Engineer.

Seed not required to be labeled under the California Food and Agricultural Code shall be tested for purity and germination by a seed laboratory certified by the Association of Official Seed Analysts, or a seed technologist certified by the Society of Commercial Seed Technologists.

Seed shall have been tested for purity and germination not more than one year prior to application of seed. Results from testing seed for purity and germination shall be furnished to the Engineer prior to applying seed.

LEGUME SEED.—Legume seed shall be pellet-inoculated or industrial-inoculated.

Pellet-inoculated seed shall be inoculated in accordance with the provisions in Section 20-2.10, "Seed," of the Standard Specifications.

Inoculated seed shall have a calcium carbonate coating.

Pellet-inoculated seed shall be sown within 90 days after inoculation.

Industrial-inoculated seed shall be inoculated with Rhizobia and coated using an industrial process by a manufacturer whose principal business is seed coating and seed inoculation.

Industrial-inoculated seed shall be sown within 180 calendar days after inoculation.

EROSION CONTROL

Pre-Site Inspection Preparation Work

Review the Special Provisions

◆ Relations with Other Agencies

5-1.18 RELATIONS WITH CALIFORNIA DEPARTMENT OF FISH AND GAME

A portion of this project is located within the jurisdiction of the California Department of Fish and Game. An agreement regarding a stream or lake has been entered into by the Department of Transportation and the Department of Fish and Game. The Contractor shall be fully informed of the requirements of this agreement as well as rules, regulations, and conditions that may govern the Contractor's operations in these areas and shall conduct the work accordingly.

Copies of the agreement may be obtained at the Department of Transportation, Plans and Bid Documents Section, MS 26, 1120 N Street, Room 200, Sacramento, CA 95814, Telephone 916-654-4490, and are available for inspection at the office of the District Director of Transportation at the Northern Region Construction Office at 379-A Colusa Highway, Yuba City, California 95991.

It is unlawful for any person to divert, obstruct or change the natural flow of the bed, channel or bank of a stream, river or lake without first notifying the Department of Fish and Game, unless the project or activity is noticed and constructed in conformance with conditions imposed under Fish and Game Code Section 1601.

Attention is directed to Sections 7-1.01, "Laws to be Observed," 7-1.01G, "Water Pollution," and 7-1.12, "Indemnification and Insurance," of the Standard Specifications.

Modifications to the agreement between the Department of Transportation and the Department of Fish and Game are proposed by the Contractor shall be submitted in writing to the Engineer for transmittal to the Department of Fish and Game for their consideration.

When the Contractor is notified by the Engineer that a modification to the agreement is under consideration, the Contractor shall be performed which is inconsistent with the original agreement or proposed modification to the agreement shall be performed on the proposed modifications. Compensation for delay will be determined in conformance with Section 8-1.09, "Right of Way Delays," of the Standard Specifications.

The provisions of this section shall be made a part of every subcontract executed pursuant to the contract. Modifications to any agreement between the Department of Transportation and the Department of Fish and Game will be fully binding on the Contractor. The provisions of this section shall be made a part of every subcontract executed pursuant to this contract.

5-1.19 RELATIONS WITH CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

The location of the Sacramento River Bridge is within an area controlled by the Regional Water Quality Control Board. A Regional Water Quality Control Board Order has been issued covering work to be performed under this contract. The Contractor shall be fully informed of rules, regulations, and conditions that may govern the Contractor's operations in these areas and shall conduct the work accordingly.

Copies of the order may be obtained at the Department of Transportation, Plans and Bid Documents Section, MS 26, 1120 N Street, Room 200, Sacramento, CA 95814, Telephone 916-654-4490, and are available for inspection at the office of the District Director of Transportation at the Northern Region Construction Office at 379-A Colusa Highway, Yuba City, California 95991.

Attention is directed to Section 7-1.11, "Preservation of Property," and Section 7-1.12, "Indemnification and Insurance," of the Standard Specifications.

5-1.20 RELATIONS WITH STATE RECLAMATION BOARD

Attention is directed to Section 7-1.11, "Preservation of Property," and Section 7-1.12, "Indemnification and Insurance," of the Standard Specifications.

The location of the Sacramento River Bridge is within an area controlled by the State Reclamation Board. A Reclamation Board Order No. 16914 GM has been approved by the State Reclamation Board covering work to be performed under this contract. The Contractor shall be fully informed of rules, regulations and conditions that may govern his operations in the area and shall conduct the work accordingly.

Attention is directed to the conditions in the application that have been approved by the Reclamation Board for this project.

No stockpiles of material, temporary buildings or equipment shall remain in the floodway during the flood season from October 15th to May 1st.

Changes in the above listed conditions proposed by the Contractor shall be submitted to the Engineer for transmittal to the State Reclamation Board for approval. Changes shall not be implemented until approved in writing by the State Reclamation Board.

Attention is directed to Section 8-1.06, "Time of Completion," of the Standard Specifications. Days during which the Contractor's operations are restricted in the floodway by the requirements of this section shall be considered to be nonworking days if these restrictions cause a delay in the current controlling operation or operations.

RELATIONS WITH CALIFORNIA DEPARTMENT OF FISH AND GAME

RELATIONS WITH CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

Pre-Site Inspection Preparation Work

Review the Special Provisions

◆ Special requirements

Maintenance

Reporting Requirements

MAINTENANCE

To ensure the proper implementation and functioning of water pollution control practices, the Contractor shall regularly inspect and maintain the construction site for the water pollution control practices identified in the SWPPP. The construction site shall be inspected by the Contractor as follows:

- A. Prior to a forecast storm;
- B. After a precipitation event which causes site runoff;
- C. At 24 hour intervals during extended precipitation events;
- D. Routinely, a minimum of once every two weeks outside of the defined rainy season;
- E. Routinely, a minimum of once every week during the defined rainy season.

The Contractor shall use the Storm Water Quality Construction Site Inspection Checklist provided in the Preparation Manual or an alternative inspection checklist provided by the Engineer. One copy of each site inspection record shall be submitted to the Engineer within 24 hours of completing the inspection.

REPORTING REQUIREMENTS

Report of Discharges, Notices or Orders

If the Contractor identifies any discharge into receiving waters in a manner causing, or potentially causing, a condition of pollution, or if the project receives a written notice or order from any regulatory agency, the Contractor shall immediately inform the Engineer. The Contractor shall submit a written report to the Engineer within 7 days of the discharge event, notice, or order. The report shall include the following information:

- A. The date, time, location, nature of the operation, and type of discharge, including the cause or nature of the notice or order.
- B. The water pollution control practices deployed before the discharge event, or prior to receiving the notice or order.
- C. The date of deployment and type of water pollution control practices deployed after the discharge event, or after receiving the notice, or order, including additional measures installed or planned to reduce or prevent recurrence.
- D. An implementation and maintenance schedule for any affected water pollution control practices.

Report of First-Time Non-Storm Water Discharge

The Contractor shall notify the Engineer at least 3 days in advance of each first-time non-storm water discharge event, excluding exempted discharges. The Contractor shall notify the Engineer of each different operation causing a non-storm water discharge and shall obtain field approval for each first-time non-storm water discharge. Non-storm water discharges shall be monitored at each first-time occurrence and routinely thereafter.

Annual Certifications

By June 15 of each year, the Contractor shall complete and submit an Annual Construction Activity Certification as contained in the Preparation Manual to the Engineer.

PAYMENT

The contract lump sum price paid for prepare storm water pollution prevention plan shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals for doing all the work involved in developing, preparing, obtaining approval of, revising, and amending the SWPPP, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

Attention is directed to Section 9-1.06, "Partial Payments," and Section 9-1.07, "Payment After Acceptance," of the Standard Specifications. Payments for prepare storm water pollution prevention plan will be made as follows:

- A. After the SWPPP has been approved by the Engineer, 75 percent of the contract item price for prepare storm water pollution prevention plan will be included in the monthly partial payment estimate; and
- B. After acceptance of the contract in conformance with the provisions in Section 7-1.17, "Acceptance of Contract," of the Standard Specifications, payment for the remaining 25 percent of the contract item price for prepare storm water pollution prevention plan will be made in conformance with the provisions in Section 9-1.07.

Pre-Site Inspection Preparation Work

Review the Special Provisions

◆ Bid Items

COPY OF ENGINEER'S ESTIMATE
(NOT TO BE USED FOR BIDDING PURPOSES)
04-241524

Item	Item Code	Item	Unit of Measure	Estimated Quantity
1	013513	TEMPORARY CREEK DIVERSION SYSTEM	LS	LUMP SUM
2	070010	PROGRESS SCHEDULE (CRITICAL PATH)	LS	LUMP SUM
3	070018	TIME-RELATED OVERHEAD	WDAY	870
4	074018	HEALTH AND SAFETY PLAN	LS	LUMP SUM
5	074019	PREPARE STORM WATER POLLUTION PREVENTION PLAN	LS	LUMP SUM
6	074020	WATER POLLUTION CONTROL	LS	LUMP SUM
7	020972	TEMPORARY COVER	LS	LUMP SUM
8	020973	TEMPORARY DRAINAGE INLET PROTECTION	EA	30
9	020974	TEMPORARY CONCRETE WASHOUT FACILITY	LS	LUMP SUM
10	020975	TEMPORARY ENTRANCE/EXIT	LS	LUMP SUM
11	020976	DRAINAGE INLET PROTECTION	EA	86
		FLARED END SECTION PROTECTION	EA	13
		SECTION	EA	6
			M	2500
			M2	17 700
				12
				32
				3
				230
				16

Contract No.

8	020973	TEMPORARY DRAINAGE INLET PROTECTION	EA	30
9	020974	TEMPORARY CONCRETE WASHOUT FACILITY	LS	LUMP SUM
10	020975	TEMPORARY ENTRANCE/EXIT	LS	LUMP SUM

Pre-Site Inspection Preparation Work

Review the Stormwater Pollution Prevention Plan

◆ Important Sections

- Sections 100 and 200

- ◆ Is plan certified by the contractor and approved by the RE ?
- ◆ Are there any relevant amendments?

- Section 300

- ◆ Unique Site Features
- ◆ Project Schedule / Water Pollution Control Schedule

Pre-Site Inspection Preparation Work

Review the Stormwater Pollution Prevention Plan

◆ Important Sections

– Section 500

- ◆ What does the checklist identify as BMPs for erosion, sediment, and non-stormwater controls?
- ◆ Look at narrative to determine how BMPs will be incorporated into the project
- ◆ Review vicinity map and WPCD's

– Section 600.4 (Sampling and Analysis)

- ◆ Sediment

– Section 600.5 (Sampling and Analysis)

- ◆ Non-Visible

Pre-Site Inspection Preparation Work

Review the Water Pollution Control Program

◆ Important Sections

- Section 10
 - ◆ Is plan certified by the contractor and approved by the RE ?
- Section 20
 - ◆ Unique Site Features
 - ◆ Project Schedule / Water Pollution Control Schedule
- Section 30
 - ◆ What are identified BMPs for erosion, sediment, and non-stormwater controls?
 - ◆ Review vicinity map and WPCD's
- Section 40
 - ◆ Are there any relevant amendments?

Inspection Form

- ◆ Attachment H
 - Instructions
 - Checklist

Special Provisions or Conceptual SWPPP may require different form

Attachment H

Stormwater Quality Construction Site Inspection Checklist

GENERAL INFORMATION			
Project Name			
Caltrans Contract N°			
Contractor			
Inspector's Name			
Inspector's Title			
Signature			
Date of Inspection			
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain	<input type="checkbox"/> After a rain event	
	<input type="checkbox"/> 24-hr intervals during extended rain	<input type="checkbox"/> Other _____	
Season (Check Applicable)	<input type="checkbox"/> Rainy	<input type="checkbox"/> Non-Rainy	
Storm Data	Storm Start Date & Time:		Storm Duration (hrs):
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days	Approximate Rainfall Amount (mm)

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE LIMITS FROM SPECIAL PROVISIONS			
Total Project Area	_____ Hectares	_____ Acres	
Rainy Season DSA Limit	_____ Hectares	_____ Acres	
Field Estimate of Non-Active DSAs	_____ Hectares	_____ Acres	
Field Estimate of Active DSAs	_____ Hectares	_____ Acres	

Field Inspection Techniques



Field Inspection Techniques

Stormwater Inspection Tips

- ◆ Take a copy of approved SWPPP on field inspection
- ◆ Use an inspection form
- ◆ Contractor should participate in inspection
- ◆ Inspect the entire site including the perimeter
- ◆ Start inspection from lowest point or from area where discharge possibility is the highest

Field Inspection Techniques

Stormwater Inspection Tips

- ◆ Walk interior and perimeter of Contractors yard
- ◆ Invite Structures Construction personnel
- ◆ Identify existing conditions
- ◆ Take photographs
- ◆ Identify changes in construction that may require amendments to the SWPPP or WPCP
- ◆ If Contractors yard is off the Right of Way check with RE before entry

Field Inspection Techniques

Rainy Season Inspections

- ◆ Evaluate Active and Non-Active Construction Areas



Field Inspection Techniques

Rainy Season Inspections

◆ Frequency

- At least weekly
- Prior to a forecast storm
- After a rain event that causes runoff from the construction site and
- At 24-hour intervals during extended rain events and
- As specified in project
- Special Provisions



Field Inspection Techniques

Rainy Season Inspections

◆ Implementation Requirements

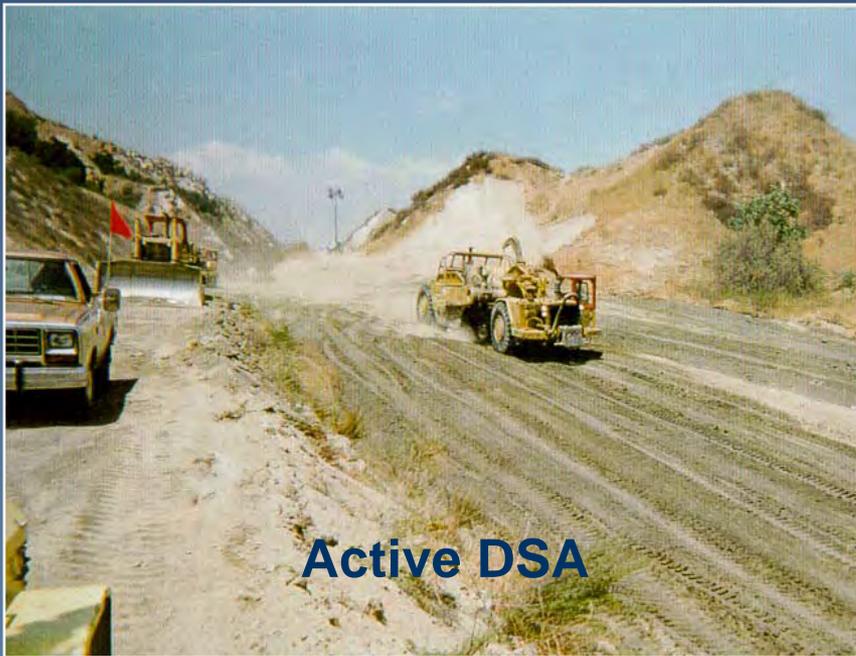
- Are the Recommended Combination of BMPs being implemented per Tables 1-3 and 1-4
- Are the appropriate Non-Stormwater Management BMPs being used
- Are the appropriate Waste Management and Materials Pollution Control BMPs being used



Field Inspection Techniques

Non-Rainy Season Inspections

- ◆ Evaluate Active and Non-Active Construction Areas



Field Inspection Techniques

Non-Rainy Season Inspections

◆ Frequency

- At least every 2 weeks
- Prior to a forecast storm
- After a rain event that causes runoff from the construction site and
- At 24-hour intervals during extended rain events and
- As specified in project Special Provisions or District requirements



Field Inspection Techniques

Non-Rainy Season Inspections

◆ Implementation Requirements

- Are the Recommended Combination of BMPs being implemented per Tables 1-3 and 1-4
- Are the appropriate Non-Stormwater Management BMPs being used
- Are the appropriate Waste Management and Materials Pollution Control BMPs being used



Inspections

- ◆ **Prior to an anticipated storm event, confirm:**
 - Active areas limited as specified (rainy season)
 - The protection of active and nonactive DSAs
 - The control of off-site stormwater run-on
 - The condition of drainage systems
 - BMPs are properly implemented



Inspections

- ◆ **During a storm event:**
 - Best time to review BMPs!
 - Confirm the proper functioning of BMPs
 - Ensure BMPs do not cause flooding or traffic hazard
 - Repair or revise BMPs as conditions allow
 - Good learning experience



Inspections

- ◆ **After an actual storm event:**
 - Identify BMPs that failed
 - Identify BMPs that need maintenance
 - Repair, revise and maintain BMPs as necessary
 - Good learning experience



Field Inspection Techniques

Sampling and Analysis

Sedimentation / Siltation or Turbidity

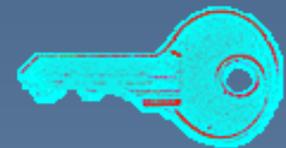
- ◆ Monitor weather reports
- ◆ Identify site conditions
- ◆ If applicable notify RE and contractor
- ◆ Sampling by contractor is mandatory

Field Inspection Techniques

Sampling and Analysis

Non-Visible Pollutants

- ◆ **Monitor weather reports**
- ◆ **When to Inspect**
 - Prior to a storm event
 - Every 24 hours during extended storm events
 - After storm events
- ◆ **Identify site conditions**
 - Spills, leaks, malfunction or breaches of BMPs



Field Inspection Techniques

Sampling and Analysis

Non-Visible Pollutants continued

- ◆ Contractor to institute correction procedures
- ◆ If applicable notify contractor and RE
- ◆ Contractor to sample if pollutants are not covered, contained or disposed of properly

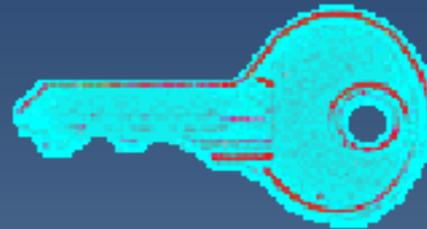
Field Inspection Techniques

Sampling and Analysis

◆ Make sure potential non-visible pollutants are:

◆ C³

- Cleaned-up
- Covered
- Contained



Mock Inspection

◆ Course Highlights

- RE Responsibilities Before Construction
- Standard Special Provisions (SSPs)
- RE Responsibilities During Construction
- Project Closeout Responsibilities
- Inspection Procedures
- ***Mock Inspection***
- Maintenance of BMPs
- Communication



Class Exercises

- ◆ Class Exercise - Conduct Mock Inspection
 - Fill out Inspection Form
 - Use photos to Identify Field Situation
- ◆ Class Exercise – Fill out SWPPP forms
 - SWPPP Amendment
 - Annual Compliance Certification
 - Notice of Discharge
 - Trained Contractor Personnel Log

Mock Inspection

- ◆ Hand Out: Blank Inspection Form (Found in SWPPP / WPCP Prep Manual - Attachment "H")
- ◆ Hand Out: Special Provisions Front Page

Attachment H

Stormwater Quality Construction Site Inspection Checklist

GENERAL INFORMATION			
Project Name			
Caltrans Contract N ^o			
Contractor			
Inspector's Name			
Inspector's Title			
Signature			
Date of Inspection			
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain	<input type="checkbox"/> After a rain event	
	<input type="checkbox"/> 24-hr intervals during extended rain	<input type="checkbox"/> Other	
Season (Check Applicable)	<input type="checkbox"/> Rainy	<input type="checkbox"/> Non-Rainy	
Storm Data	Storm Start Date & Time:		Storm Duration (hrs):
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days	Approximate Rainfall Amount (mm)

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE LIMITS FROM SPECIAL PROVISIONS			
Total Project Area	_____ Hectares	_____ Acres	
Rainy Season DSA Limit	_____ Hectares	_____ Acres	
Field Estimate of Non-Active DSAs	_____ Hectares	_____ Acres	
Field Estimate of Active DSAs	_____ Hectares	_____ Acres	

Mock Inspection

GENERAL INFORMATION				
Project Name				
Caltrans Contract N°				
Contractor				
Inspector's Name				
Inspector's Title				
Signature				
Date of Inspection				
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain		<input type="checkbox"/> After a rain event	
	<input type="checkbox"/> 24-hr intervals during extended rain		<input type="checkbox"/> Other _____	
Season (Check Applicable)	<input type="checkbox"/> Rainy		<input type="checkbox"/> Non-Rainy	
Storm Data	Storm Start Date & Time:		Storm Duration (hrs):	
	Time elapsed since last storm (Circle Applicable Units)	Min. Hr. Days	Approximate Rainfall Amount (mm)	

Mock Inspection

- ◆ Use the Special Provisions Handout to fill in:
 - Project Name
 - Caltrans Contract
- ◆ You are the:
 - Contractor
 - Inspector/Title
- ◆ Use today's date

GENERAL INFORMATION				
Project Name				
Caltrans Contract N°				
Contractor				
Inspector's Name				
Inspector's Title				
Signature				
Date of Inspection				
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain			<input type="checkbox"/> After a rain event
	<input type="checkbox"/> 24-hr intervals during extended rain			<input type="checkbox"/> Other _____
Season (Check Applicable)	<input type="checkbox"/> Rainy		<input type="checkbox"/> Non-Rainy	
Storm Data	Storm Start Date & Time:		Storm Duration (hrs):	
	Time elapsed since last storm (Circle Applicable Units)	Min.	Hr.	Days
			Approximate Rainfall Amount (mm)	

Mock Inspection

- ◆ Inspection type is after a rain event
- ◆ It's the rainy season
- ◆ The storm started yesterday at 2:00 p.m.
- ◆ There hasn't been rain for a week
- ◆ It rained 1 inch
- ◆ Check National Weather Service website or other for actual duration and rainfall

GENERAL INFORMATION				
Project Name				
Caltrans Contract N ^o				
Contractor				
Inspector's Name				
Inspector's Title				
Signature				
Date of Inspection				
Inspection Type (Check Applicable)	<input type="checkbox"/> Prior to forecast rain			<input type="checkbox"/> After a rain event
	<input type="checkbox"/> 24-hr intervals during extended rain			<input type="checkbox"/> Other _____
Season (Check Applicable)	<input type="checkbox"/> Rainy		<input type="checkbox"/> Non-Rainy	
Storm Data	Storm Start Date & Time:		Storm Duration (hrs):	
	Time elapsed since last storm (Circle Applicable Units)	Min.	Hr.	Days
			Approximate Rainfall Amount (mm)	

<http://www.nws.noaa.gov/>

- Favorites
- Ad
- Local forecast by "City, St"
- Warnings
- Observations
- Forecasts
- Forecast Maps/Models
- Weather Safety
- Education
- Information Center
- Weather Radio
- Publications...
- Careers
- Contact Us
- FAQ
- Comments...



National Oceanic and Atmospheric Administration

National Weather Service

WORKING TOGETHER TO SAVE LIVES

weather.gov



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News

Organization

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Enter Search Here

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Local forecast by "City, St"

City, St

Go

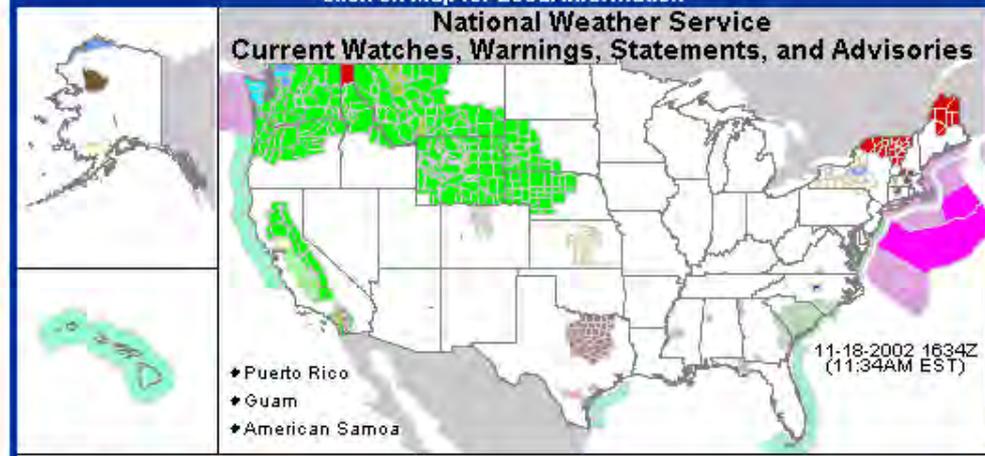
World's Largest Archive of Climate Data At Your Fingertips

All weather and climate data gathered by the National Weather Service, military services, the Federal Aviation Administration, and the Coast Guard is archived at NOAA's [National Climatic Data Center \(NCDC\)](#). The NCDC compiles the weather data (temperatures, precipitation totals, heating and cooling degree days, and more) collected from thousands of sites in the U.S.

[Details...](#)

Click on Map for Local Information

National Weather Service Current Watches, Warnings, Statements, and Advisories



- ♦ Puerto Rico
- ♦ Guam
- ♦ American Samoa

Winter Storm Warning		Flood Statement	
High Wind Warning		Short Term Forecast	
Freeze Warning		Hazardous Weather Outlook	
Flood Warning		Storm Warning	
Tornado Watch		Gale Warning	
High Wind Watch		Small Craft Advisory	
Flood Watch			

- Favorites
- Ad
- Local forecast by city and state
- Current Hazards
- Watches/Warnings
- Local Outlook
- National Outlooks
- Current Conditions
- Observations
- Radar Imagery
- Satellite Imagery
- Soundings
- River Levels
- Precipitation
- Buoy Reports
- Road Conditions
- Forecasts
- Local Forecasts
- Aviation
- Fire Weather
- Hydrology
- Marine
- Computer Models
- Climate
- Local Climate Data
- National Climate
- Climate Prediction
- Weather Safety
- Weather Radio
- Safety Tips
- Storm Ready
- Other Information
- Local Programs

Local forecast by city and state

Go

Local News:

- Check out the [Prototype Gridded Temperature Forecast](#)
- New [Temperature and Precipitation Records Page](#)
- New [Hazardous Weather Outlook Product](#)
- [CPC El Nino Update Report](#)
- [Yolo Bypass at Lisbon Stage Changes](#)

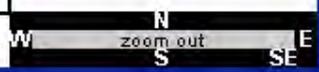
Place cursor over area and click for your NWS forecast



Click on map for forecasts, warnings, and observations for a specific location. Click here for a summary of all warnings and advisories

- Dense Fog Advisory
- Short Term Forecast
- Hazardous Weather Outlook
- Small Craft Advisory

11-18-2002 1643Z (08:43AM PST)



Mock Inspection

PROJECT AREA SUMMARY AND DISTURBED SOIL AREA (DSA) SIZE LIMITS FROM SPECIAL PROVISIONS

Total Project Area	_____	Hectares	_____	Acres
Rainy Season DSA Limit	_____	Hectares	_____	Acres
Field Estimate of Active DSAs	_____	Hectares	_____	Acres

- ◆ Use the NOC to identify the Total Project Area
- ◆ Use the Special Provisions Handout to find:
 - Rainy Season DSA Limit
- ◆ The Field Estimate of Active DSAs is less than 5 acres

Mock Inspection “NOC”

V. CONSTRUCTION SITE INFORMATION

DESCRIPTION AND TYPE OF WORK

ADDITIONAL RELATED REQUIRED APPROVALS: DTSC Variance CWA 404/401 DFG 1601 NPDES/WDRs OTHER

DESCRIBE:

TOTAL CONSTRUCTION AREA:		ACRES	HECTARES	TOTAL DISTURBED AREA:		ACRES	HECTARES
			4.5				
RECEIVING WATER NAME				PROJECT IN OR ADJACENT TO RECEIVING WATER?			
				<input type="checkbox"/> YES			
PROJECT DISCHARGES TO?		<input type="checkbox"/> GROUNDWATER INFILTRATION		BASIN LOCATION:		MUNICIPAL/OTHER SYSTEM NAME:	

Mock Inspection

Rainy Season DSA limit

Throughout the defined rainy season, the active disturbed soil area of the project site shall be not more than 2 hectares. The Engineer may approve, on a case-by-case basis, expansions of the active disturbed soil area limit. Soil stabilization and sediment control materials shall be maintained on site sufficient to protect disturbed soil areas. A detailed plan for the mobilization of sufficient labor and equipment shall be maintained to deploy the water pollution control practices required to protect disturbed soil areas prior to the onset of precipitation.

Rainy Season Implementation Requirements

Soil stabilization and sediment control practices conforming to the requirements of these special provisions shall be provided throughout the rainy season, defined as between October 15 and April 15.

An implementation schedule of required soil stabilization and sediment control practices for disturbed soil areas shall be completed no later than 20 days prior to the beginning of each rainy season. The implementation schedule shall identify the soil stabilization and sediment control practices and the dates when the implementation will be 25 percent, 50 percent and 100 percent complete, respectively. For construction activities beginning during the rainy season, the Contractor shall implement applicable soil stabilization and sediment control practices. The Contractor shall implement soil stabilization and sediment control practices a minimum of 10 days prior to the start of the rainy season.

Throughout the defined rainy season, the active disturbed soil area of the project site shall be not more than 2 hectares. The Engineer may approve, on a case-by-case basis, expansions of the active disturbed soil area limit. Soil stabilization and sediment control materials shall be maintained on site sufficient to protect disturbed soil areas. A detailed plan for the mobilization of sufficient labor and equipment shall be maintained to deploy the water pollution control practices required to protect disturbed soil areas prior to the onset of precipitation.

Mock Inspection

Let's do it!!!

- ◆ We will spend time on each slide. Then review after you have filled out the inspection form.
- ◆ Assume that either those Requirements/boxes not addressed by a photo are not applicable or there is no problem there.
- ◆ Locations must be described using the photographs.

Mock Inspection

What's wrong?

What would you do?



Mock Inspection

What's wrong?

What would you
do?



Mock Inspection

What's
wrong?

What would
you do?



Mock Inspection

What's wrong?

What would you do?



Mock Inspection

What's wrong?

What would
you do?



Mock Inspection

What's wrong?

What would you do?



Mock Inpsection

What's wrong?

What would you do?



Mock Inspection

What's wrong?

What would you do?



Mock Inspection

Let's Review our Inspection Forms

- ◆ Finding the correct place on the form to record information more difficult than it looks
- ◆ Let's compare our results with the rest of the class
- ◆ Now let's review the photos one more time and discuss our solutions

Mock Inspection

What's wrong?

What would you do?



Stabilize conveyance from outfall to lined channel

Mock Inspection

What's wrong?

What would you do?



Have Porta-Potti Fixed or removed from site

Mock Inspection

What's wrong?

What would you do?



Place in secondary containment

Mock Inspection

Use drip pans, fix leaks

What's wrong?

What would you do?



Clean up and dispose of contaminated soil properly

Mock Inspection

What's wrong?

What would you do?

Slope drain or stabilized conveyance

Install sediment control at toe of slope



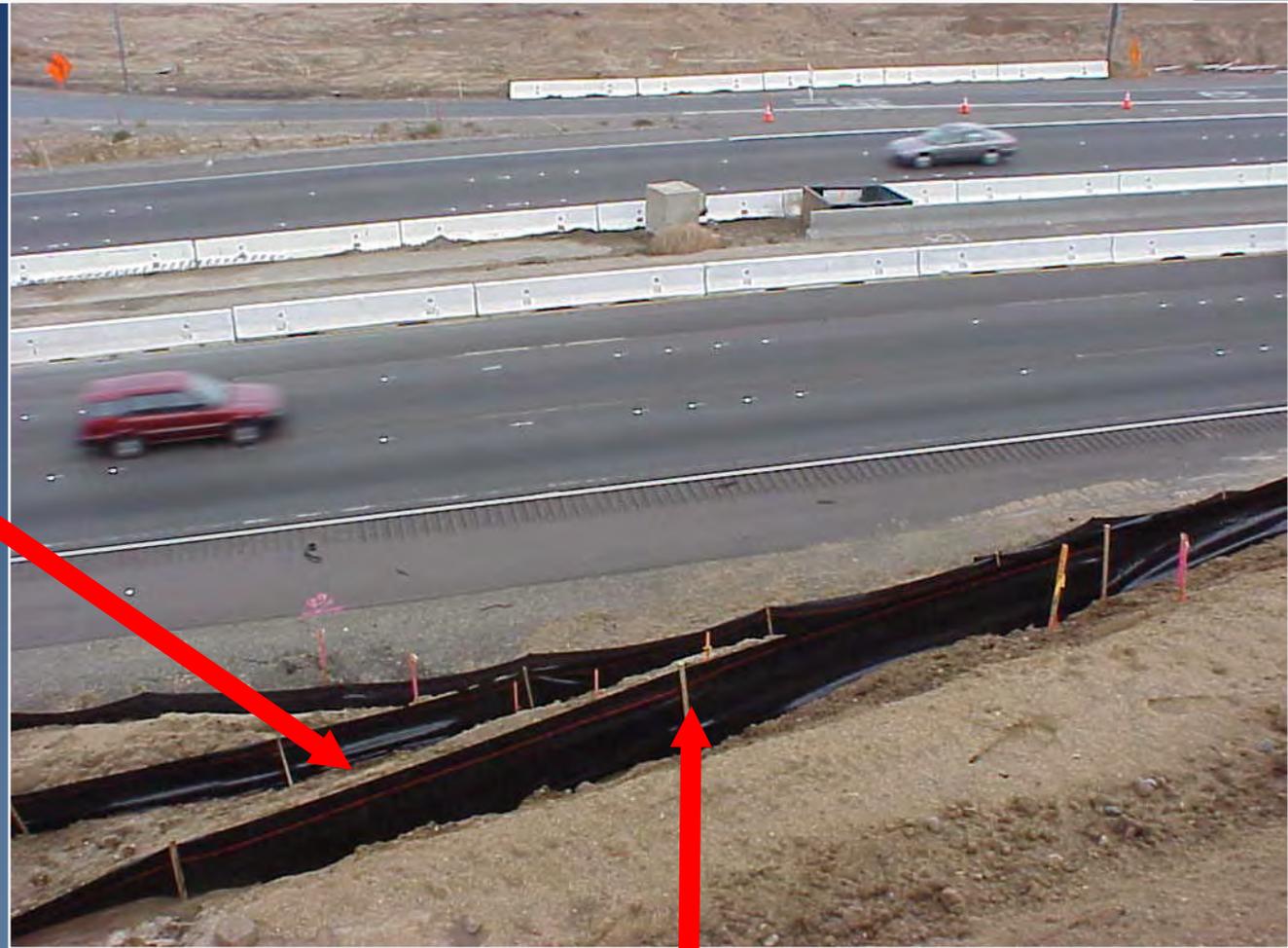
Convey water away from slope

Mock Inspection

What's wrong?

What would you do?

Bonus points for non active DSA that requires soil stabilization



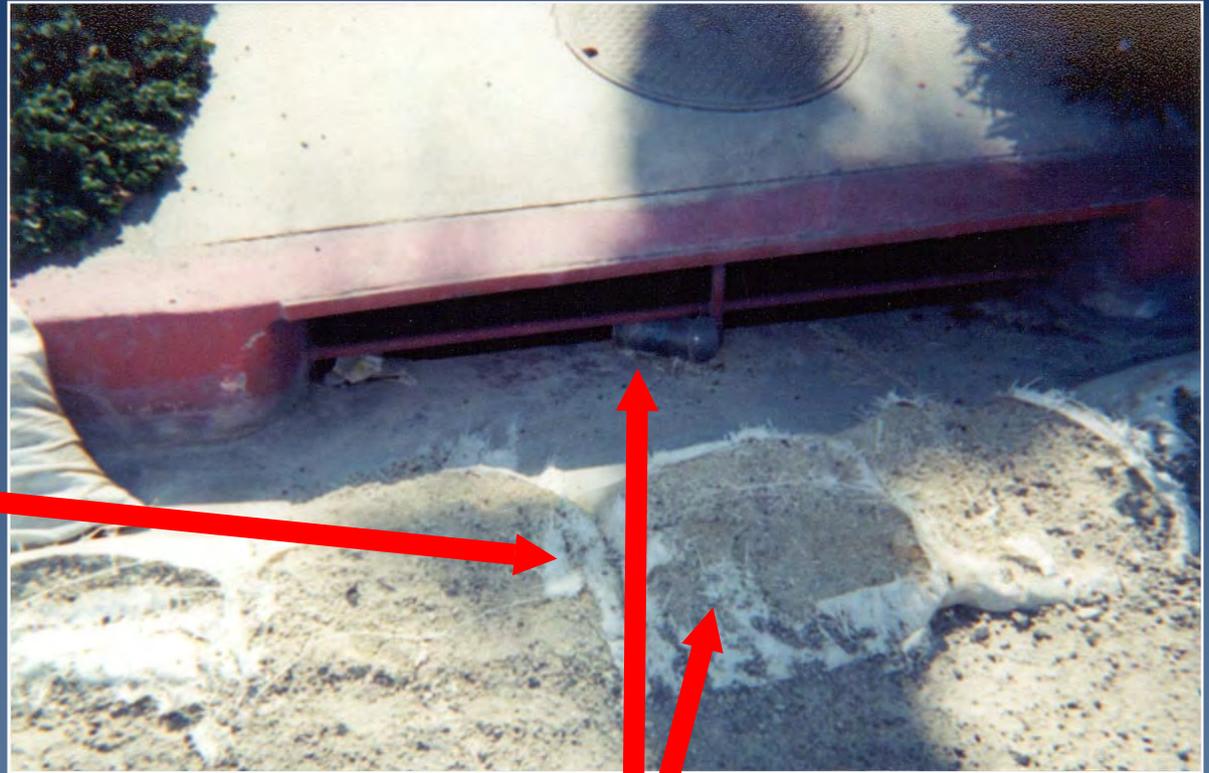
Silt fence installed backward / use fiber rolls to breakup slope length 167

Mock Inspection

What's wrong?

What would you do?

Bonus points for not using sand bags use gravel bags for inlet protection



Maintenance is needed and remove trash and debris from inlet

Mock Inspection

What's wrong?

What would you do?



**Stabilize egress with
rock and fabric**

**SWEEP AND VACUUM SEDIMENT
FROM ROADWAY**

Other Important Forms

Fill out other forms required during the implementation of the SWPPP during construction

- ◆ Notice of Discharge
- ◆ Annual Compliance Certification
- ◆ Trained Contractor Personnel Log
- ◆ SWPPP Amendment
- ◆ Amendment Log

Notice of Discharge

- ◆ Handout – Blank [Notice of Discharge](#)
- ◆ Assume that you are on the same project but during the inspection you observed the following slides.
- ◆ Assume all project information is the same.
- ◆ Fill out the Notice of Discharge
- ◆ Hint: If you can't see it; its not there.

Notice of Discharge



Notice of Discharge



Notice of Discharge



Notice of Discharge



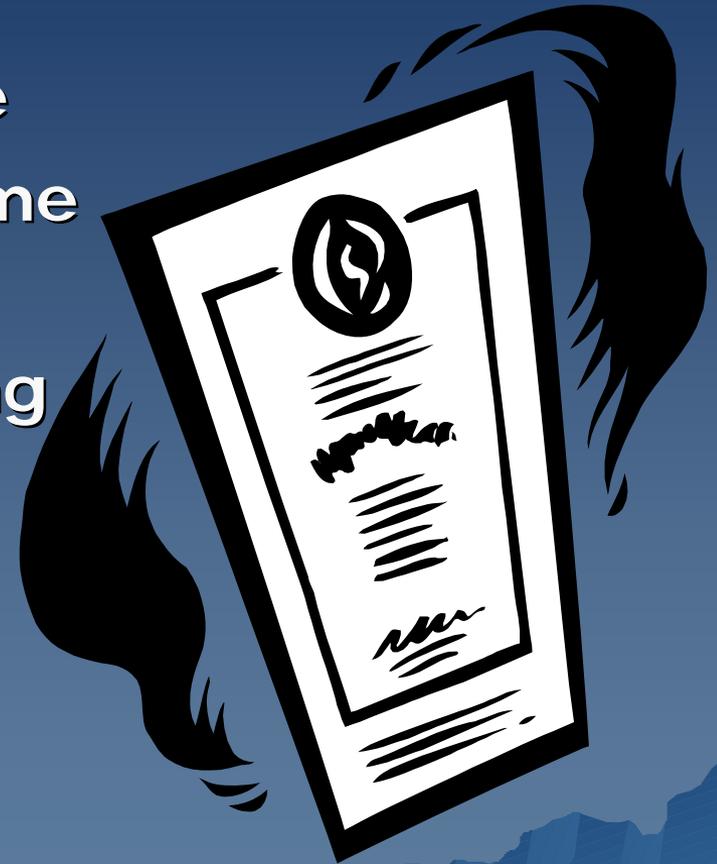
Trained Contractor Personnel Log

- ◆ Handout – Blank Stormwater Management Training Log (Attachment I)
- ◆ Review Section 500.7 and Attachment I Instructions
- ◆ Review CPD regarding training for WPCM and SWPPP preparers
- ◆ [Link to Log](#)



Annual Certification of Compliance

- ◆ Handout – Blank Annual Certification of Compliance
- ◆ Assume that this is the same project as previous
- ◆ Work in progress: trenching and planting
- ◆ Worked Planned: Same
- ◆ [Link to Form](#)



SWPPP Amendment

- ◆ Handout – Blank SWPPP Amendment Form and Log
- ◆ Assume that this is the same project as previous
- ◆ We want to add gravel bag berms at the top of the slope
- ◆ Mark up Revisions on WPCD

[Link to Form](#)

Attachment C
Amendments

SWPPP Amendment No. ____

Project Name: _____

Caltrans Contract Number: _____

To Be Completed by Contractor

"I certify under a penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure 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."

Contractor's Signature

Date

Contractor's Name and Title

Contractor's Telephone Number

 Caltrans Stormwater Quality Handbooks
SWPPP/WPCP Preparation Manual
REVISED 4/2007

Amendments
4 of 9

SWPPP Amendment Log

- ◆ Write brief description of Amendment
- ◆ Fill out Log

Project Name: _____
Caltrans Contract Number: _____

Amendment No.	Date	Brief Description of Amendment	Prepared By

[Link to Form](#)

Maintenance of BMPs

◆ Course Highlights

- RE Responsibilities Before Construction
- Standard Special Provisions (SSPs)
- RE Responsibilities During Construction
- Project Closeout Responsibilities
- Inspection Procedures
- Mock Inspection
- ***Maintenance of BMPs***
- Communication



Maintenance of BMPs



Maintenance of BMPs is a critical requirement for an effective water pollution control program

Maintenance of BMPs



Silt fence maintenance

Improperly Implemented BMPs

- ◆ Construction Site Best Management Practice (BMP) Field Manual and Troubleshooting
 - Applications
 - Key Points
 - ◆ Installation
 - ◆ Design
 - ◆ Maintenance / Inspection
 - Preventive Measures and Troubleshooting



Improperly Implemented BMPs



Silt Fence SC-1

Preventive Measures and Troubleshooting Guide

Field Condition:	Common solutions are:
There is excessive sediment accumulation.	Remove sediment. Apply Hydraulic Mulch (SS-3) or Straw Mulch (SS-6) or other BMP upstream to reduce sediment in runoff.
Bottom of fence is not properly keyed in.	Trench, place fabric, and backfill.
Length of slope draining to silt fence is too long.	Shorten slope length using Fiber Rolls (SC-5) or equivalent. Slope shall be 61 m (200 ft) or less.
Storage capacity is inadequate due to sediment buildup.	Remove accumulated sediment when it reaches 1/3 the height of the barrier.
There is a lack of sufficient ponding area.	Fence should be installed with at least a 1m setback from the toe of slope where possible. Divert flow at top of slope.
Erosion occurs around barrier ends.	Turn ends of barriers into the up-slope area.
Silt fence is not installed along level enough contour.	Reinstall silt fence so that change in elevation does not exceed 1/3 the height of the linear barrier along the reach. Install cross barriers.
Slope draining to fence is too steep. Slope shall be less than 1:1 (V:H).	Shorten slope length using Fiber Rolls (SC-5) or equivalent. Increase setback of silt fence from the toe of slope.
Fence is installed in concentrated flow area.	Replace fence with proper BMP such as Check Dams (SC-4), if appropriate.
Cross barriers not installed or installed incorrectly.	Place cross barriers on the receiving side of the barrier at a maximum separation of 150 m. Cross barrier should be a minimum of 1/3 and a maximum of 1/2 the height of the linear barrier.
Stakes are too far apart.	Add stakes a maximum of 2.5 m apart.
Concentrated flows cause erosion to occur behind silt fence.	Place cross barrier check dams behind the barrier.

46

Silt fence installed incorrectly in a concentrated flow area

Improperly Implemented BMPs



Check Dam SC-4

Preventive Measures and Troubleshooting Guide

Field Condition:	Common solutions are:
Too much sediment has accumulated.	Remove accumulated sediment to recover holding capacity.
There is insufficient ponding area.	Space check dams farther apart. Increase height of dam.
The check dam is higher than the drainage channel.	Lower check dam so that it is 150 mm (6 in) lower than the channel side.
Check dams wash away.	Ensure that the drainage area is 4 ha (10 ac) or less. Replace check dams. Consider adding more dams upstream.
Wrong type of materials is used to construct barrier .	Use heavier materials such as larger rocks. Do not use straw bales or silt fence.

Silt fence installed incorrectly in a unstabilized concentrated flow area

Improperly Implemented BMPs



Sandbags blocking a DI, and causing a safety hazard

Improperly Implemented BMPs

Preventive Measures and Troubleshooting Guide

Field Condition:	Common solutions are:
Excessive sediment is entering the inlet.	Ensure that soil stabilization and sediment control devices are installed upstream of inlets. Ensure that the barriers around the inlet are installed correctly. Sandbags need to be tightly abutted. Filter fence needs to be keyed in so that water goes through filter fabric and not under it. Ensure that disturbed soil inside the protective device is prevented from entering drain by covering with plastic.
Material from broken bags is entering inlet.	Clean out inlet. Remove broken bags and replace as necessary.
Ponded water causes a traffic concern.	Use alternative BMPs upstream. Remove drain inlet protection if necessary.



Sandbags blocking a DI, and causing a safety hazard

Improperly Implemented BMPs



Uncontrolled concrete washout near an active DI

Improperly Implemented BMPs

Stabilized entrance / exit on right gets little use vs. unstabilized area on left



Improperly Implemented BMPs



Possible solution: Block other entrance / exit

Improperly Implemented BMPs



Incorrect use of silt fence

Improperly Implemented BMPs



Lack of soil stabilization has lead to failure of silt fence

Improperly Implemented BMPs

Preventive Measures and Troubleshooting Guide

Field Condition:	Common solutions are:
Soil stockpile erodes.	Cover stockpile with plastic sheeting or spray with a soil stabilizer. Protect with a temporary perimeter sediment barrier around the stockpile.
Stockpile is in flow line.	Remove stockpile from drainage path or protect with a berm, dike, or temporary diversion device.
Storm water run-on impacts the stockpile.	Protect the stockpile by using temporary perimeter sediment barriers such as berms, dikes, silt fencing, or sandbags.
Wind causes erosion and or blowing dust.	Cover stockpile or spray with a soil stabilizer. Use a water application to suppress dust.
Cold-mix stockpile is on the bare ground.	Remove stockpile and place on plastic or comparable material.
Cold-mix is stored in curb drainage way.	Remove stockpile from flow line.



Stockpile should be relocated, covered and protected from run-on₁₉₃

Communication

◆ Course Highlights

- RE Responsibilities Before Construction
- Standard Special Provisions (SSPs)
- RE Responsibilities During Construction
- Project Closeout Responsibilities
- Inspection Procedures
- Mock Inspection
- Maintenance of BMPs
- ***Communication***



Communication

Debriefing the Contractor

- ◆ Check with the project RE prior to the inspection regarding communication protocol

Communicate during inspection

- ◆ BMP requirements
 - Missing
 - Improper installation
 - Improper implementation
 - Deficiencies
- ◆ Maintenance requirements
- ◆ Non-compliance



Communication

Debriefing the RE

Communicate inspection findings

- ◆ **BMP requirements**

- Missing
- Improper installation
- Improper implementation
- Deficiencies

- ◆ **Maintenance requirements**

- ◆ **Non-compliance**



Communication

- ◆ **Regulatory inspections**
 - When to expect them
 - How to act
 - What to say
 - What not to say



Closing Comments

- ◆ Refer to the Caltrans Storm Water Quality Handbooks
- ◆ Refer to your project's Contract Special Provisions
- ◆ Ensure that your site has an approved SWPPP on site
- ◆ Ensure that your site is implementing the BMPs as required in the SWPPP or amend the SWPPP