Water Pollution Control Program (WPCP) Preparation Manual

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15. Abstract The Manual presents guidance for California Department of Transportation (Caltrans) staff, consultants and contractors to use when preparing WPCPs for implementation in construction projects that are less than 1 acre of soil disturbance and not subject to the statewide General Construction Permit (CGP) or have an approved Rainfall Erosivity Waiver under the CGP.	16. Key Words
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List of Abbreviations, Terms

ASBS	Areas of Special Biological Significance
ATS	Active Treatment System
BMPs	Best Management Practice
CASQA	California Stormwater Quality Association
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CGP	Construction General Permit
CPESC	Certified Professional in Erosion and Sediment Control
CWA	Clean Water Act
DSA	Disturbed Soil Area
DWQ	Division of Water Quality
ESA	Environmentally Sensitive Area
IH	Information Handout
LTCGP	Lake Tahoe Hydrologic Unit Construction General Permit
MEP	Maximum Extent Practicable
MS4	Municipal Separate Storm Sewer System
NOAA	National Oceanic and Atmospheric Administration
NPDES	National Pollutant Discharge Elimination System
NWS	National Weather Service
O&M	Operation and Maintenance
PCC	Portland Cement Concrete
PoP	Probability of Precipitation
POTW	Publicly Owned Treatment Works
PRDs	Permit Registration Documents
QA/QC	Quality Assurance/Quality Control
QSD	Qualified SWPPP Developer
QSP	Qualified SWPPP Practitioner
R factor	rainfall erosivity factor
RE	Resident Engineer
RWQCB	Regional Water Quality Control Board
SMARTS	Storm Water Multi Application Reporting and Tracking System
SWMP	Storm Water Management Program
SWPPP	Storm Water Pollution Prevention Plan
SWRCB	State Water Resources Control Board
USACOE	U.S. Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
V:H	Vertical versus Horizontal
WDR	Waste Discharge Requirement
WPC	Water Pollution Control
WPC Manager	Water Pollution Control Manager
WPCD	Water Pollution Control Drawing
WPCP	Water Pollution Control Program
WPCS	Water Pollution Control Schedule

Section 1

Introduction and Background

1.1 Purpose and Scope of this Manual

Caltrans has a commitment to prevent pollution in stormwater runoff from Caltrans properties, facilities, and activities. This manual is part of Caltrans' comprehensive and coordinated statewide effort to prevent pollution in stormwater runoff from Caltrans construction sites.

This document guides Contractors and Caltrans staff through the process of preparing a Water Pollution Control Program (WPCP). Prior to June 2021, the WPCP Template was Microsoft Access based; in June, the template was modified to a FileMaker Pro platform. The organization of this Manual is shown below. Working details and instructions for the implementation of construction site Best Management Practices (BMPs) are presented in the Standard Plans, Contract Plans, Standard Specifications and Contract Special Provisions. The Caltrans *Construction Site Best Management Practices Manual* should be used as guidance for temporary construction site BMPs.

- Section 1 provides the purpose and scope of this Manual and background information on the National Pollutant Discharge Elimination System (NPDES) regulations including the Caltrans Statewide NPDES Permit.
- Section 2 provides general information of the determination of site Best Management Practices (BMPs).
- Section 3 provides detailed instructions for the preparation of a WPCP.
- Section 4 provides step-by-step WPCP Builder instructions for accessing, printing, editing a WPCP using FileMaker Pro.
- Section 5 covers the actual input descriptions and instructions for the development of the WPCP for projects in Caltrans right-of-way.
- Section 6 provides step-by-step instructions for preparing WPCP Attachments A–D.
- Section 7 provides Appendices A through H, Caltrans CEM forms used to document and report information necessary for WPCP implementation.
- Appendix A provides definitions of terms used throughout this Manual.
- Appendix B provides a list of standard Caltrans Construction Site BMP symbols to be used on Water Pollution Control Drawings (WPCDs).

1.2 Federal Regulations

Federal regulations for controlling discharges of pollutants from municipal separate storm sewer systems, construction sites, and industrial activities, were brought under the NPDES permit process by the 1987 amendments to the Clean Water Act (CWA), and the subsequent 1990 promulgation of federal stormwater regulations issued by the U.S. Environmental Protection Agency (USEPA). The USEPA regulations require municipal and industrial stormwater discharges to comply with an NPDES permit. In California, the USEPA delegated authority to issue NPDES permits to the State Water Resources Control Board (SWRCB) and the nine Regional Water Quality Control Boards (RWQCBs).

1.3 Caltrans Statewide NPDES Permit

The SWRCB issued a Statewide Stormwater NPDES Permit (Caltrans Permit) to Caltrans, to regulate stormwater and non-stormwater discharges from Caltrans properties and facilities, and discharges associated with operation and maintenance of the State highway system. The Caltrans Permit contains three basic requirements:

1. Caltrans must comply with the requirements of the Construction General Permit (CGP) or the Lake Tahoe CGP for construction projects that have an acre or more of soil disturbance;
2. Caltrans must implement a year-round program in all parts of the State to effectively control stormwater and non-stormwater discharges; and
3. Caltrans stormwater discharges must meet water quality standards through implementation of permanent and temporary (Construction Site) BMPs and other measures.

Copies of the Caltrans Permit can be downloaded from the SWRCB website, at: http://www.waterboards.ca.gov/water_issues/programs/stormwater/caltrans.shtml

For construction projects, the Caltrans Permit requires projects to obtain coverage for stormwater discharges associated with construction activities under Order No. 2009-0009-Division of Water Quality (DWQ) Statewide Construction General Permit (CGP) and associated amendments (Order No. 2010-0014-DWQ and Order No. 2012-0006-DWQ), or for construction projects within the Lake Tahoe Hydrologic Unit the Caltrans Permit requires Caltrans to obtain coverage for stormwater discharges associated with construction activities under the Lake Tahoe Construction General Permit (LTCGP) Order No. RGT-2011-0019 NPDES No. CAG616002. This manual does not intend to include all permit requirements. For more information and a complete listing of all requirements, refer to the Caltrans Permit, the CGP or the LTCGP.

This Manual only covers projects that disturb less than an acre of soil and require the preparation and implementation of a Water Pollution Control Program (WPCP). Table 1-1 shows where Caltrans Permit requirements are incorporated into the WPCP.

Table 1-1. Caltrans Permit Requirements

Caltrans Permit Reference	Requirement	Section
E.2.f.2	Construction related activities not subject to the Construction General Permit are required to implement BMPs to control the discharge of pollutants to the Maximum Extent Practicable (MEP) and will implement region specific WDRs	Section 3 of this Manual, WPCP template

1.3.1 Qualifications for Certification and Training Requirements

The CGP and the LTCGP require certification and mandate that all persons responsible for implementing the requirements of the CGP and the LTCGP meet appropriate training. Caltrans has taken those requirements and made them similar for Water Pollution Control Program work.

Training should be both formal and informal and occur on an ongoing basis. Training should include those provided by recognized governmental agencies or professional organizations.

1.3.1.1 Qualifications for Certification Requirements

For Caltrans projects, the Standard Specifications Section 13-1 outline the certification requirements for the developer of the WPCP and the WPCM who implements the approved document. This function can be performed by the same person or not; but they each must meet the minimum requirements. The WPCP must be written and certified by a person who at a minimum must have the qualifications of a QSP. The WPCP implementation must be under the supervision of the WPC Manager who also must be at a minimum a QSP.

1.3.1.2 Training Requirements

Caltrans requires water pollution control (WPC) training for project managers, supervisory personnel, subcontractors, and employees. Employees involved in WPC work must be trained in stormwater BMP implementation, maintenance standards and repair.

All employees, including subcontractor's employees, must be trained in the following subjects:

- Water pollution control rules and regulations
- Implementation and maintenance for:
  - 2.1. Temporary Soil Stabilization
  - 2.2. Temporary Sediment Control
  - 2.3. Tracking Control
  - 2.4. Wind Erosion Control
  - 2.5. Material pollution prevention and control
  - 2.6. Waste management
  - 2.7. Non-stormwater management

WPC training must be completed prior to working on the job.

Caltrans contract specifications require that the Contractor conduct ongoing weekly training meetings that cover:

- WPC BMPs deficiencies and corrective actions,
- BMPs that are required for work activities during the week,
- Spill prevention and control,
- Material delivery, storage, use, and disposal,
- Waste management, and
- Non-stormwater management procedures.

In addition, Caltrans requires the WPCM and the alternate/substitute WPCM as well as an assistant (if one is assigned) to complete the Caltrans 8-hour WPCM training.

1.3.2 Risk Determination Requirements

1.3.2.1 Rainfall Erosivity Waiver

Projects that have a disturbed soil area (DSA) between one (1) and less than five (5) acres may qualify for a rainfall erosivity waiver under the CGP if the rainfall erosivity factor (R factor) is less than a value of 5. The R factor takes into account project location, length of construction period,

and time of year, so projects that begin and complete construction within a short period are likely to qualify for a rainfall erosivity waiver.

Projects that qualify for a rainfall erosivity waiver do not need to prepare a SWPPP but must file proper permit registration documents (PRD) via SMARTS. In addition, a WPCP must be prepared by the Contractor as outlined in Section 3 of this Manual.

The R factor is calculated using the *EPA Rainfall Erosivity Calculator* at:

http://water.epa.gov/polwaste/npdes/stormwater/Welcome-to-the-Rainfall-Erosivity-Factor-Calculator.cfm

1.3.2.2 Visual Site Monitoring

All CGP projects are required to conduct quarterly non-storm water visual site monitoring inspections.

The WPC Manager must maintain on-site records of all visual observations, personnel performing the observations, observation dates, weather conditions, locations observed, and corrective actions taken in response to the observations.

1.3.2.3 Training Documentation

Documentation of all training for individuals responsible for activities associated with BMP installation, inspection, maintenance, and repair must be included. Additionally, training and training documentation is required for individuals that are responsible for overseeing, revising, and amending the SWPPP. Training material includes documentation of informal and formal training conducted by the WPC Manager, QSD, QSP, or a qualified trainer. Documentation for informal on-site training should include: topics covered, time, date, attendees, and trainer name.

Section 2

Determination of Construction Site Best Management Practices

This section provides instructions for the determination of some construction site BMPs. The Caltrans *Construction Site BMPs Manual* should be used as guidance for determining project construction site BMPs. It is important to note that the requirements of this Section are based on Caltrans minimum requirements and that contract special provisions and plans may impose more stringent requirements on a project-by-project basis. Any changes to the BMP implementation after approval of the WPCP will require updating or amending the WPCP.

2.1 Definitions

2.1.1 Stormwater Discharge

Stormwater discharges consist only of those discharges that originate from precipitation events. Stormwater is defined in the CFRs (40 C.F.R. § 122.26(b)(13)) as stormwater runoff, snowmelt runoff, and surface runoff and drainage. During precipitation events, stormwater picks up and transports pollutants into and through MS4s and ultimately to waters of the United States.

2.1.2 Non-Stormwater Discharge

Non-storm water discharges consist of all discharges that do not originate from precipitation events. Generally, non-stormwater discharges to an MS4 are prohibited, conditionally exempt from prohibition, or regulated separately by an NPDES permit. The categories of conditionally exempt non-stormwater discharge are specified at 40 CFRs section 122.26(d)(2)(iv)(B)(1). Non-stormwater discharges that are regulated by a separate NPDES permit are not subject to the discharge prohibition. Prohibited non-stormwater discharges include conditionally exempt discharges that are found to be a source of pollutants to waters of the United States. Illicit discharges must also be prohibited. An illicit discharge is defined in 40 CFRs section 122.26(b)(2) as "any discharge to a municipal storm sewer that is not composed entirely of storm water except discharges pursuant to an NPDES permit (other than the NPDES Permit for discharges from the MS4) and discharges resulting from firefighting activities." Provision B of the Caltrans Permit addresses non-storm water discharge. Non-storm water discharges to an MS4 with a discharge to an Areas of Special Biological Significance (ASBS) are subject to a different set of conditions as stated in Finding 22.a of the Caltrans Permit.

2.1.3 Disturbed Soil Area

DSAs are areas of exposed, erodible soil that are within the construction limits and that result from construction activities. The following are not considered DSAs:

- Areas where temporary soil stabilization, erosion control, or slope protection have been applied and associated drainage facilities are in place, functional, and stabilized.
- Roadways, construction roads, access roads or contractor's yards that have been stabilized by the placement of compacted sub-base, base material, or paved surfacing.

- Areas where construction has been completed in conformance with the contract plans and permanent erosion control is in place and functional or permanent vegetation is established.
- For areas without permanent hard covers, soil stabilization 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.

2.1.4 Active Areas and Inactive Areas

Active Areas are construction areas where soil-disturbing work activities have occurred at least once within 15 days. **Inactive Areas** are areas where soil-disturbing work activities have not occurred within 15 days. The SWPPP applies to all areas and item work of the project. A water pollution control schedule (WPCS) must be submitted with the SWPPP and must be updated regularly to ensure all areas, item work and associated temporary BMPs are adequately installed, maintained and documented. The Resident Engineer (RE) will conduct a review of the existing WPCS and active areas on a regular basis to determine if an inactive status should be applied to some DSAs.

2.1.5 Slope Length and Benches

Slope length is measured or calculated along the continuous inclined surface. Each discrete slope is between one of the following: top to toe, top to bench, bench to bench, and bench to toe.

Benches are drainage facilities that intercept surface flow, break up slope lengths and convey the resulting concentrated flow away from a slope. For the purpose of determining slope lengths, fiber rolls or other appropriate BMPs can be considered equivalent to a bench.

2.2 Temporary Soil Stabilization and Sediment Control Implementation Guidance

Stormwater pollution control measures are required to be implemented on a year-round basis at an appropriate level. The requirements must be implemented in a proactive manner during all seasons while construction is ongoing. California has varied rainfall patterns throughout the state; therefore, the appropriate level of BMP implementation will also vary throughout the state. The temporary soil stabilization and sediment control BMPs specified in this section are based on rainfall patterns (time frames, intensities, and amounts), general soil types, seasons, slope inclinations and slope lengths. Appropriate water pollution control includes the implementation of an effective combination of both soil stabilizing erosion and sediment control BMPs.

The following subsections describe both general principles and specific guidance for selecting and implementing temporary soil stabilization and sediment control BMPs. See Table 2-1 for a summary of the required temporary soil stabilization and sediment control BMPs.

Table 2-1. Required Temporary Soil Stabilization and Sediment Control BMPs[a]		
Risk Level	**Temporary BMP Type**	**Options for Temporary BMPs BMP Number (b)**
1	Soil Stabilization[c]	SS-2, SS-3, SS-4, SS-5, SS-6, SS-7, SS-8
1	Perimeter Sediment Barrier[d]	SC-1, SC-5, SC-6, SC-8, SC-9
1	Run-on	SC-5, SC-6, SC-8, SS-9
1	Run-off	SC-4, SS-9, SS-10, SS-11, SS-12
1	Tracking	TC-1 (at minimum), TC-2, TC-3, SC-7
2	Soil Stabilization[c,e]	SS-2, SS-3, SS-4, SS-5, SS-6, SS-7, SS-8
2	Sediment Barrier[d]	SC-1, SC-5, SC-6, SC-8, SC-9
2	Run-on	SC-5, SC-6, SC-8, SS-9
2	Run-off	SC-4, SS-9, SS-10, SS-11, SS-12
2	Tracking	TC-1 (at minimum), TC-2, TC-3
2	Grade Break[f]	SC-5 or SC-6
3	Soil Stabilization[c,e]	SS-2, SS-3, SS-4, SS-5, SS-6, SS-7, SS-8
3	Sediment Barrier[d]	SC-1, SC-5, SC-6, SC-8, SC-9
3	Run-on	SC-5, SC-6, SC-8, SS-9
3	Run-off	SC-4, SS-9, SS-10, SS-11, SS-12
3	Tracking	TC-1 (at minimum), TC-2, TC-3
3	Grade Break[e]	SC-5 or SC-6

a. BMP requirements of the CGP with associated Caltrans approved BMP options to meet the requirements.

b. BMP numbers from the Caltrans Construction Site BMPs Manual.

c. Required immediately for inactive DSAs which include all finished slopes and disturbed areas of construction not scheduled to be re-disturbed for at least 15 days.

d. Sediment controls and barriers include all temporary sediment control construction BMPs identified in the Storm Water Management Program (SWMP).

e. Required for active areas at least 24 hours prior to a forecasted storm event.

f. Grade break BMPs are linear barriers that must be installed perpendicular to flow in accordance with the following: flat to 25 percent slopes maximum every 20-foot spacing, 25-50 percent slopes maximum every 15-foot spacing, and steeper than 50 percent slopes maximum every 10-foot spacing.

2.2.1 Scheduling

Construction scheduling shall consider the amount and duration of soil exposed to erosion by wind, rainfall, runoff, and vehicle tracking. Construction activities should be scheduled to minimize DSA during the time of the year when rainfall can be expected. A graphical WPCS shall be prepared that shows the sequencing of construction activities with the installation and maintenance of soil stabilization and sediment control BMPs. The WPCS should be updated routinely to ensure it reflects site conditions.

2.2.2 Preservation of Existing Vegetation

Preserving existing vegetation to the maximum extent possible and for as long as possible on a construction site reduces or eliminates erosion in those areas. To facilitate this practice, temporary fencing should be installed prior to commencement of clearing, grubbing or other soil-disturbing activities in areas where no construction activity is planned.

2.2.3 Stormwater Run-on and Concentrated Flows

The diversion of stormwater run-on and conveyance of concentrated flows must be considered in determining the appropriateness of the BMPs chosen. BMPs to divert or manage concentrated flows in a non-erodible fashion may be required on a project-by-project basis to divert off-site drainage through or around the construction site or to properly manage construction site stormwater runoff.

2.2.4 DSA Management

The DSA management guidelines are based on rainfall patterns (time frames, intensities, and amounts), general soil types, seasons, slope inclinations, and slope lengths. All of these factors must be considered in order to develop the appropriate levels of soil stabilizing and sediment control measures.

2.2.5 DSA Size Limitations

Limiting the amount of disturbed soil is a critical component in conducting an effective stormwater management program.

The Caltrans Standard Specifications place no limitations on the size of the project's total DSA. The limitation on DSA has been removed because of the risk based approach taken by the CGP and the requirements for year round sediment and erosion control BMPs. The contractor can opt to utilize DSA size limitations as a BMP.

DSAs shall be protected as follows:

- Temporary control practices for inactive DSAs shall be implemented in accordance with Table 2-1 of this Manual and shown on the WPCS.
- Temporary control practices for active DSAs shall be implemented in accordance with Table 2-1 of this Manual.

For inactive DSAs, limit the erosive effects of stormwater flow on slopes by implementing BMPs such as fiber rolls to break up the slope lengths as follows:

1. Slope inclination 1:4 (Vertical versus Horizontal [V:H]) and flatter: BMPs shall be placed on slopes at intervals no greater than 20 feet.
    a. Slope inclination between 1:4 (V:H) and 1:2 (V:H):
    BMPs shall be placed on slopes at intervals no greater than 15 feet.
    b. Slope inclination 1:2 (V:H) or greater:
    BMPs shall be placed on slopes at intervals no greater than 10 feet.

For-inactive DSAs, permanent erosion control shall be applied to areas deemed complete as soon as possible but may need to be delayed until the project's defined seeding window.

Provide construction site BMPs in addition to those specified in Table 2-1 to convey concentrated flows in a non-erodible fashion.

Do not use fiber rolls on slopes where soil conditions do not warrant (slopes prone to surface failure).

2.2.6 Soil Stockpiles

Temporary soil stockpiles shall be protected with temporary soil stabilization and/or sediment controls when required per Caltrans Standard Specifications and Standard Plans. Section 500 of the SWPPP or Section 30 of the WPCP lists various materials that can be used for soil stockpile management.

Caltrans specifications require Contractors to cover active and inactive soil stockpiles with soil stabilization material or a temporary cover and surround them with a linear sediment barrier.

2.2.7 Sediment/Desilting Basins

The nature of linear projects and constrained rights-of-way inherent to Caltrans work may prohibit the use of sediment/desilting basins at some locations on certain projects and on some projects altogether. Sediment basins shall, at minimum, be designed according to Caltrans requirements or the method provided in California Stormwater Quality Association's (CASQA)'s Construction BMP Guidance Handbook. The required sediment/desilting basin shall be constructed in accordance with contract documents and in conjunction with other soil stabilization and sediment control measures.

2.3 Guidance for Implementation of Other BMPs

2.3.1 Mobile Operations

Mobile operations common to the construction of a project include asphalt recycling, concrete mixing, crushing and the storage of materials. BMPs shall be implemented as necessary, to control potential pollution that mobile operations may create.

The Caltrans Permit requires Caltrans to obtain coverage for any stormwater discharges associated with industrial activities under the Statewide Industrial General Permit for each batch plant and industrial facility, as defined in the Statewide Industrial General Permit. Please check with your District NPDES coordinator to determine specific regional requirements or exemptions.

The State Board website specifically addresses this issue noting that: "…if a contractor plans to operate: (1) a batch plant to manufacture Portland Cement Concrete, Hot Mixed Asphalt, or other material, or (2) a crushing plant to produce rock or aggregate, as part of a Caltrans project, either outside the job site or within the job site, that serves 1 or more contracts, the contractor must obtain coverage under the Industrial General Permit."[1]

2.3.2 Wind Erosion Controls

Wind erosion controls shall be considered for all DSAs on the project site that are subject to wind erosion and when significant wind and dry conditions are anticipated during construction of the project. Refer to the Caltrans Standard Specifications for BMP line items for Wind Erosion Control BMPs, Caltrans Standard Specifications and for further reference see the *Construction Site BMPs Manual*.

[1] State Water Resources Control Board, Frequently Asked Questions, Caltrans Construction, available at http://www.waterboards.ca.gov/water_issues/programs/stormwater/caltrans.shtml

2.3.3 Tracking Controls

Tracking controls shall be implemented, as needed, to reduce the tracking of sediment and debris from the construction site. At a minimum, entrances and exits shall be inspected daily, and controls implemented as needed. Refer to the Caltrans Standard Specifications for BMP line items for Tracking Control BMPs (including Street Sweeping), Caltrans Standard Plans and for further reference see the *Construction Site BMPs Manual*.

2.3.4 Job Site Management (Non-Stormwater and Waste Management and Materials Pollution Controls)

The objective of the job site management (non-stormwater and waste management and materials pollution controls) is to reduce the discharge of materials other than stormwater to the stormwater drainage system or to receiving waters. These controls shall be implemented year round for all applicable activities, material usage, and site conditions. Refer to the Caltrans Standard Specifications and for further reference see the C*onstruction Site BMPs Manual*.

Section 3

Preparing a Water Pollution Control Program

3.1 Preparation and Approval of a WPCP

The Caltrans contract specifications require the contractor to prepare a Water Pollution Control Program (WPCP) for each project where the construction work results in less than 1 acre of soil disturbance or for small construction projects (1 to 5 acres of DSA) that have an approved Rainfall Erosivity Waiver authorized by the USEPA and therefore not subject to the requirements of the CGP or the LTCGP. The WPCP prepared for a project must comply with Caltrans Standard Specifications Section 13 Water Pollution Control and the contract special provisions following the procedures and format set forth in this Manual.

This section provides detailed, step-by-step procedures and instructions that contractors shall use to prepare a WPCP. This section also contains instructions for preparation of the WPCP Attachments and Appendices.

The contractor shall prepare and submit a complete WPCP to the Caltrans RE for review and acceptance. If revisions are required, as determined by the RE, the contractor must revise and resubmit the WPCP. The time frames for WPCP submittal, review, and re-submittal are specified in the contract special provisions or Caltrans Standard Specifications Section 13 Water Pollution Control. No activity having the potential to cause water pollution, as determined by the RE, shall be performed until the WPCP has been accepted by the RE. Construction activities that will not threaten water quality, such as traffic control, may proceed without an approved WPCP if authorized by the RE.

The WPCP template allows for the Alternate/Substitute WPCM and/or an Assistant WPCM to be included in case the primary designees are unavailable. The Alternate/Substitute WPCM must have the training and qualifications necessary to ensure the WPCP is in full compliance.

3.1.1 Information Provided by Caltrans

In addition to information in the contract special provisions and shown on the contract plans, Caltrans may supply to the contractor certain information developed during the design process. The stormwater information necessary for the preparation of a project WPCP should be provided in the project Information Handout (IH) or should be requested from the project RE. The contractor shall use this information to prepare the WPCP, as appropriate.

3.1.1.1 Vicinity Map

A map extending approximately one quarter mile (1,320 feet) beyond the property boundaries of the construction site showing: the construction site; surface water bodies (including known springs and wetlands); known wells; an outline of off-site drainage areas that discharge into the construction site; general topography; and the anticipated discharge location(s) where the construction site's stormwater discharges to a municipal storm drain system or other water body. A U.S. Geological Survey (USGS) quad map may be used for showing the project site

and a one-quarter mile (1,320 feet) extension beyond the property boundaries of the construction site.

3.1.1.2 Soils/Geotechnical Report, Project Materials Report and/or Other Reports

Toxic History of the Site: To the extent information is available from the soils/geotechnical report, the project materials report, site investigation report developed by the Hazardous Waste Section, or other regulatory or environmental compliance documentation (e.g. CEQA Initial Study, Phase I Environmental Site Assessment), the IH may include a description of all toxic materials known to have been treated, stored, disposed, spilled, or leaked in significant quantities onto the construction site.

Site Geotechnical Report: The IH may include a copy of the project materials report (geotechnical report). The contractor must describe the conditions of the fill and native soil materials that can be found at the construction site. Fill material should be described as whether it is native or non-native, contaminated or uncontaminated, and its stabilization technique (i.e., native soil coverage, asphalt or concrete coverage, landscape).

3.1.1.3 List of Pre-Construction (Existing) BMPs

The IH may provide a list and written descriptions of existing pre-construction practices, if any, that are already in place to reduce sediment and other pollutants in stormwater discharges. These permanent BMPs may consist of biofiltration swales and strips, media filters, etc. Indicate whether there are existing pre-construction BMPs.

3.1.1.4 List of Permanent (Post-Construction) Stormwater Control Measures (BMPs)

The IH may provide a written listing and narrative descriptions of post-construction permanent BMPs that have been included in the project. Narrative descriptions may also include operation and maintenance (O&M) procedures for the permanent BMPs, O&M short term and long term funding, and a statement indicating that the Maintenance Department will be responsible for O&M of the post construction BMPs.

3.1.1.5 Layout Sheets Showing Suggested Temporary BMP Locations

The contract plan layouts sheets will show the location of anticipated construction site BMPs or the BMPs will be shown on contract plan quantity summary sheets. The contract plan layout sheets may show the location of anticipated contractor staging areas and other contractor support facilities.

3.1.1.6 Explanation of Construction Site (Temporary) BMPs

The IH may provide a brief narrative explanation of the various temporary BMPs that may be implemented in the project, including any existing permanent BMPs that may be present within the project limits that can be used during construction, as well as any permanent BMPs that should be constructed early for use as a temporary BMP during construction, such as early application of permanent soil stabilization measures in areas that will no longer experience soil disturbance during construction.

3.1.1.7 Drainage Report

The IH may include a copy of the drainage report for the project or appropriate information, such as the hydrology maps, delineation of drainage boundaries, concentrations of runoff, and runoff coefficients.

3.1.1.8 Construction Site Estimates

The IH may contain portions of the Storm Water Data Report which includes for the project site an estimate of the:

- Construction site area in acres;
- Disturbed soil area in acres;
- Runoff coefficient of the construction site before and after construction; and
- Percentage of the construction site impervious area (e.g., pavement, building) before and after construction.

3.1.1.9 Other Information

The IH may also include any other information that would explain the decisions or thought process behind the selection and deployment of the temporary BMPs chosen by the designer. Examples include the designer's proposed staging of the project and estimated time of year for those stages, and any specific BMP deployments that are considered to be critical to the success of the contractor's WPCP.

3.1.1.10 Other Plans/Permits/Agreements

Other agencies may have issued permits/agreements or have plan requirements for the construction of the project or imposed certain conditions. If so, a written description of the permit/agreement conditions and a copy of the permit/agreement will be provided by Caltrans for inclusion in an attachment to the WPCP. Hazardous materials must be handled in accordance with specific laws and regulations and disposed of as a hazardous waste as outlines in Section 14 of the Standard Specifications. If during the preparation of the contract, it is known that special permits for accomplishing disposal of hazardous waste is known, then a written explanation will be provided to the contractor to be incorporated within this section and it must be consistent with other specifications in the contract. In addition, information regarding other related permits/agreements such as California Department of Fish and Wildlife or USACOE permits/agreements may also be included. For oversight projects, the Local Agency/Private Entity administering the project, is responsible for securing all necessary permits, certifications, and approvals. Copies of such documents shall be provided by the Local Agency/Private Entity and included as an attachment to the WPCP.

3.1.2 Minimum Requirements for Construction Sites

In order to ensure a minimum level of water pollution control, Caltrans has designated some BMPs as minimum requirements that contractors must implement during construction of highway projects statewide. The minimum required BMPs are specified in the contract standard specifications and contract special provisions. More information about minimum required BMPs can be found in the Caltrans *Construction Site Best Management Practices (BMPs) Manual*.

Section 4

WPCP Builder – FileMaker Pro

This section provides step-by-step WPCP Builder instructions for accessing, printing, editing a WPCP. The WPCP Builder has been developed in FileMaker Pro with the following objectives:

1. Provide easy data entry for contractors to prepare a WPCP.
2. Provide instructions in the template that can be viewed while the WPCP is being prepared.
3. Provide consistency in content and format of all WPCPs prepared and submitted to Caltrans so that review, approval and implementation of WPCPs on Caltrans projects is more efficient.

Instructions for using the electronic version of the WPCP builder:

1. Download the appropriate template from the Caltrans Web site at: Storm Water and Water Pollution Control
2. Complete all applicable sections of the WPCP Builder; there are various narrative text input fields where you may insert detailed text. A draft WPCP with completed text for each section can be printed from the Print WPCP button on the WPCP Builder home screen.

The WPCP Builder shown in this section includes step-by-step instructions to navigate WPCP section for the following:

Section 10	WPCP Certification and Authorization
Section 20	Project and Contractor Information
Section 30	Pollution Sources and Control Measures
Section 40	WPCP Implementation
Section 50	WPCP Reporting Requirements

The WPCP Builder includes instructions within the database.

4.1 Create New WPCP

4.1.1 Getting Started Instructions

Open the WPCP Builder application (Figure 4-1). When the application has been opened the home screen will appear. Use the computer mouse, click-ok.

Figure 4-1. WPCP Builder Home Screen

Click-ok to take you to Start Up Window. A new window will appear where you can create a new WPCP or edit an existing WPCP from the list.

The next screen will allow you to create a new WPCP but it also has general instructions (Figure 4-2) that apply in all the tabs/input fields.

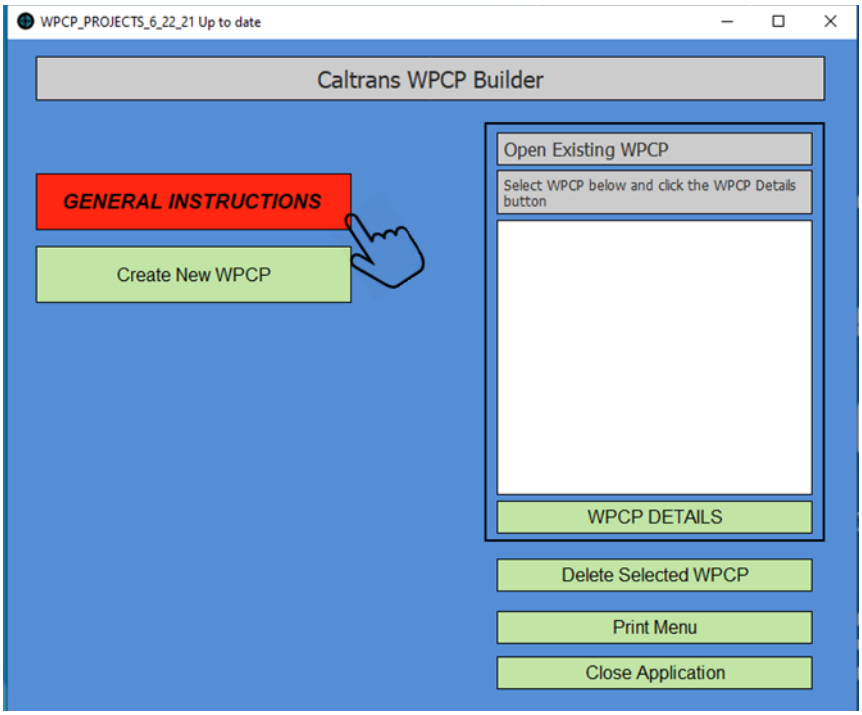

Figure 4-2. WPCP Start Up Screen

If you click on General Instructions, the following screen will appear

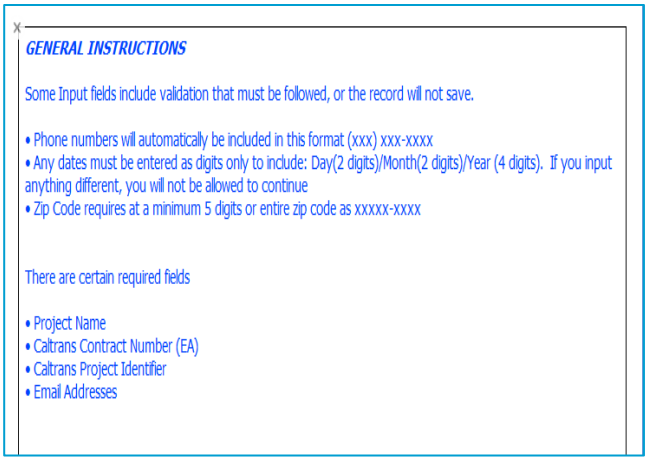

Figure 4-3. General Instructions Screen

The database has incorporated validation in some of the fields to ensure that the format is followed throughout the WPCP input process. These rules must be strictly followed, or you will see an error screen appear (Figure 4-4) alerting you of the error:

- Phone numbers will automatically be included in this format (xxx) xxx-xxxx
- Any dates must be entered as digits only to include: Day/Month/Year (4 digits). If you input anything different, you will get the following message and it will not allow you continue

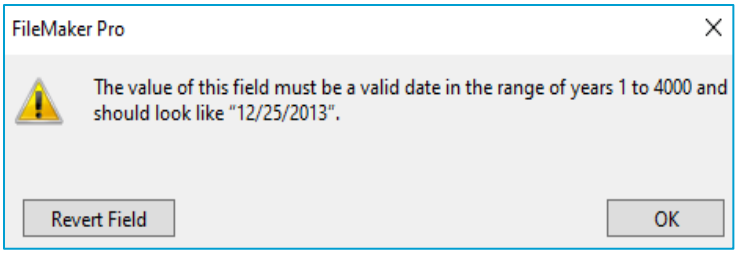

Figure 4-4. General Instructions Error

In addition, there are certain required fields

- Project name
- Caltrans Contract Number (EA)
- Caltrans Project Identifier

If you failed to include any of the required fields, you will receive a message (Figure 4-5) informing you and it will automatically take you to the field that needs input.

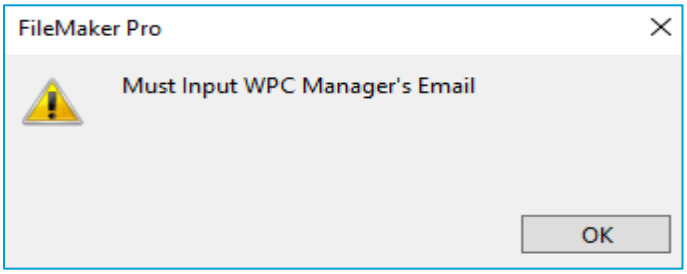

Figure 4-5. Missing Input field

From Figure 4-2, WPCP Start Up Screen, click the Create New WPCP to begin a new WPCP file/project.

The window will change to a new window to populate initial project information (Figure 4-6). The date that the SWPPP was created will automatically populate. Enter the project name in the field WPCP Name.

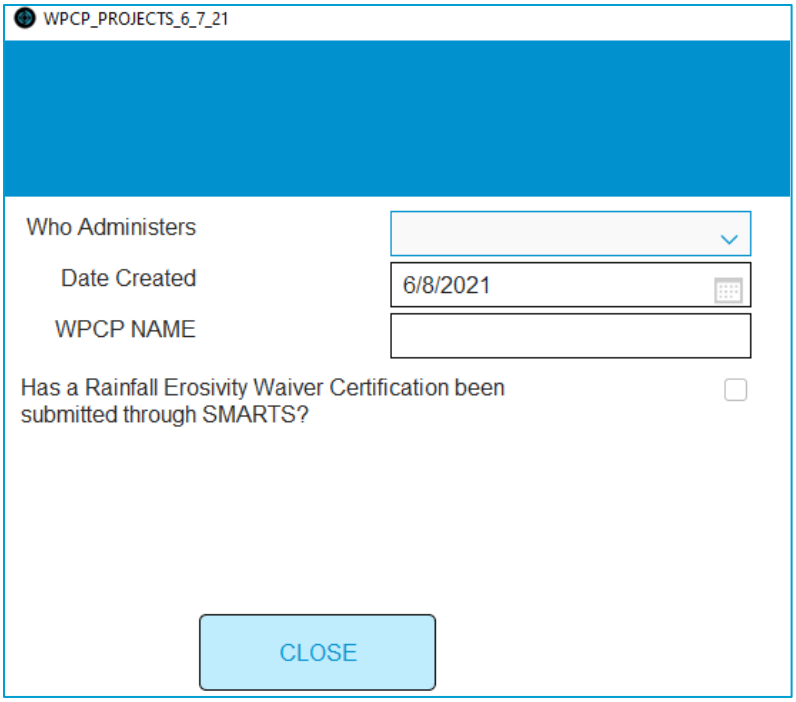

Figure 4-6. WPCP Name Screen

Use the drop-down windows to choose who will be the project administer (Figure 4-7). Choose who will administer the WPCP, Caltrans, Local Entity or a Private Entity. Click the Close to take you to the main WPCP input screens

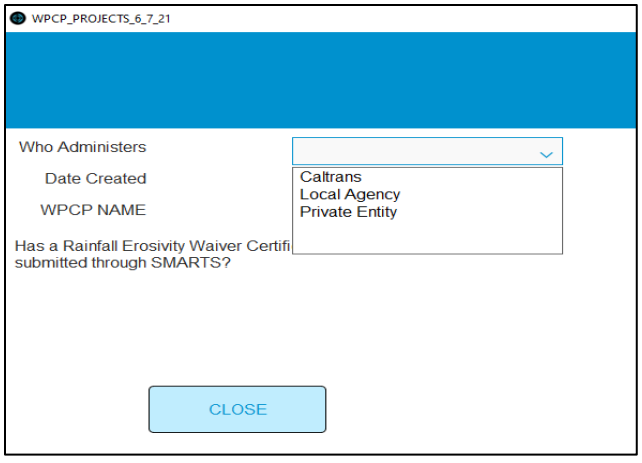

Figure 4-7. WPCP Administration Selection Screen

In addition, if your project is subject to a Rainfall Erosivity Waiver Certification under the CGP, you must click the check box and that notification will appear on the cover page of the WPCP (Figure 4-8).

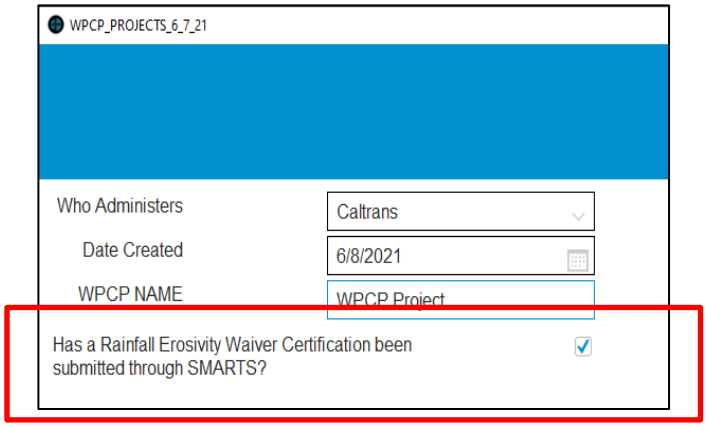

Figure 4-8. WPCP Rainfall Erosivity Waiver Check Box

4.2 Editing Existing WPCP Instructions

From the WPCP Builder Create New WPCP Screen (Figure 4-2), select the WPCP name of the file previously created. You can hover over the various WPCP Files, and you will see the background color change to highlight the selected WPCP

Once you see the file has been selected, click on WPCP Details and the WPCP sections tab will open.

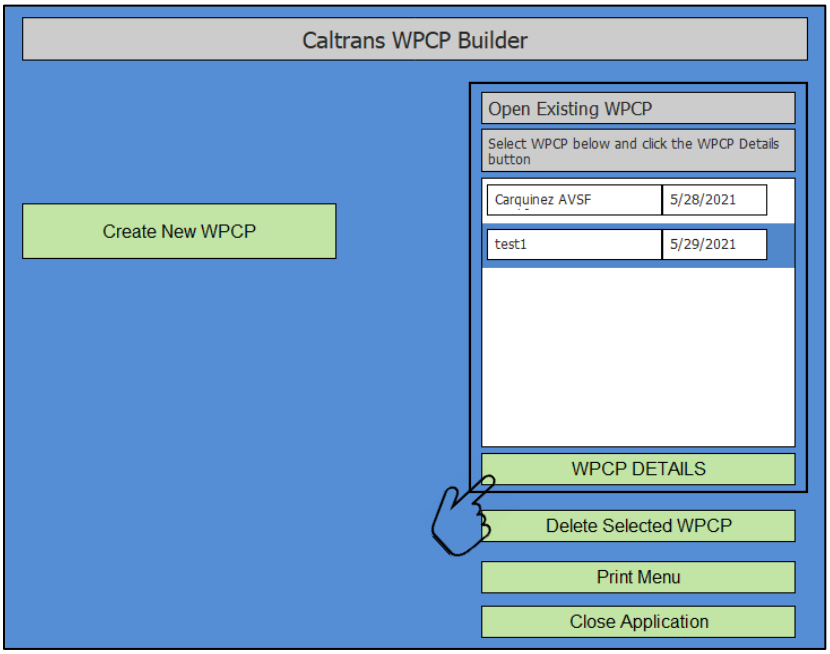

Figure 4-9. Edit Existing WPCP Selection Screen

4.2.1 Delete Existing WPCP Instructions

From the WPCP Builder Main Screen, you can select the WPCP name of the file you want to delete.

You can hover over the various WPCP Files, and you will see the background color change to highlight the selected WPCP.

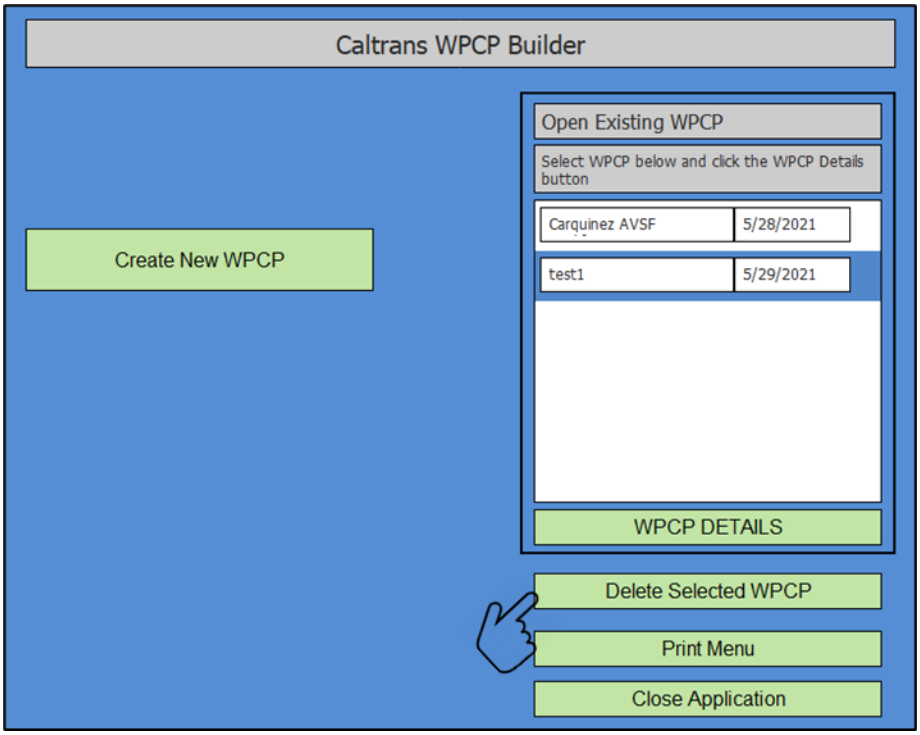

Figure 4-10. Delete Existing WPCP Selection Screen

Once you click the Delete Selected WPCP, the following screen will appear, click on Delete to confirm you want the file selected to be permanently deleted (Figure 4-11).

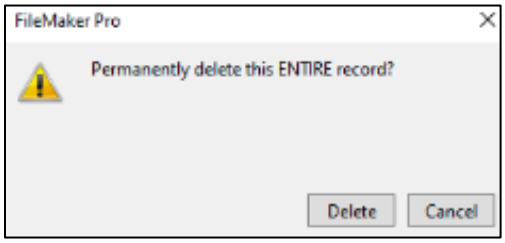

Figure 4-11. Confirm Delete WPCP Selection Screen

Once you click Delete, FileMaker Pro will take you back to the Main WPCP Screen where you will see that the file no longer exists (Test1 file has been deleted, Figure 4-12).

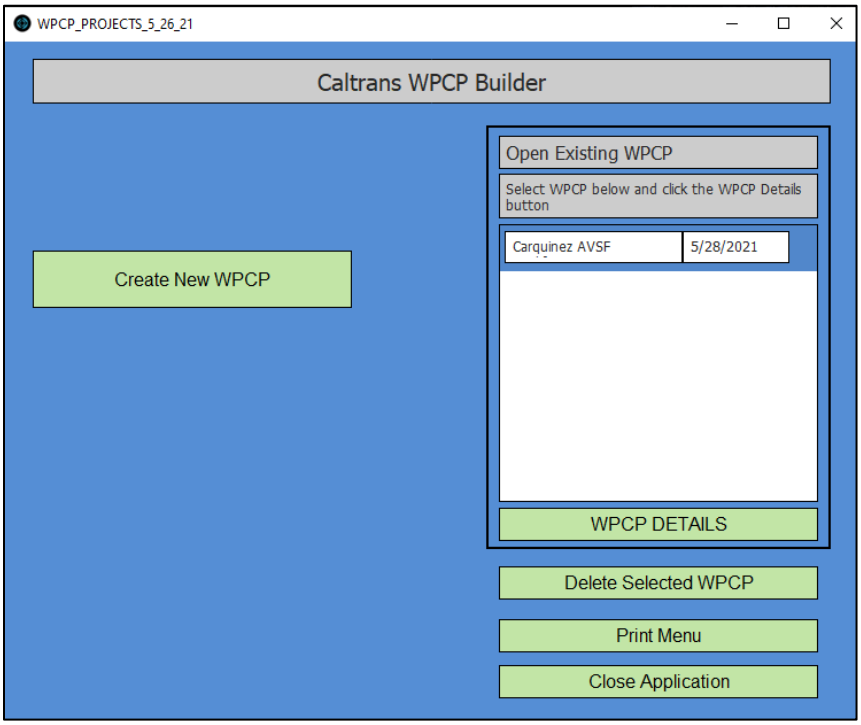

Figure 4-12. Confirmation of the Deletion of the WPCP Selection Screen

4.3 WPCP Detail Instructions

The WPCP Detail section provides the framework for the WPCP document. Previously entered information (Name, who administers and Date WPCP Created) can be viewed at the top of screen but cannot be changed.

Recall that the WPCP Details can be accessed from the WPCP Start Up window (Figure 4-2). Click-on the WPCP Details button. A new entry window will appear (Figure 4-13) that shows the different required sections to populate for the WPCP. Each listed section will either have narrative text, lists, and/or tables to populate for section completion.

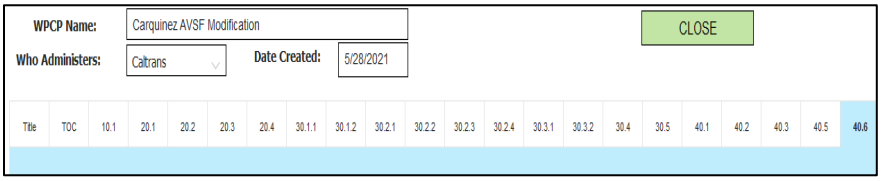

Figure 4-13. WPCP Details Main Tabs

Once the WPCP Details Main Menu is open, the sections are shown via tabs for viewing and editing.

4.4 View a Section

To navigate from section to section click-on the Tab Section Number you want to see or input (Figure 4-14) and the Tab will be highlighted, and the specific input fields shown.

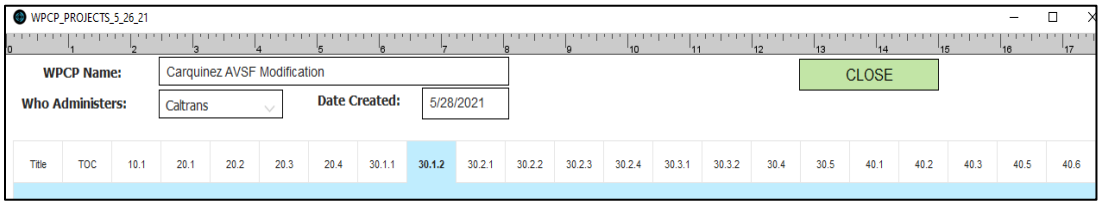

Figure 4-14. WPCP Section Navigation

The section will appear in the window (Figure 4-14). Sections have tabs for Instructions and for information entry (Fields, Text or Tables tab). The user can go back to sections to make edits at any time (automatically saves).

4.5 Toggle between section input fields

Several tabs have various input fields for information that needs to be entered to complete the WPCP. At the bottom of the input screen, you will see these toggle buttons that you can select and maneuver to complete (Figure 4-15).

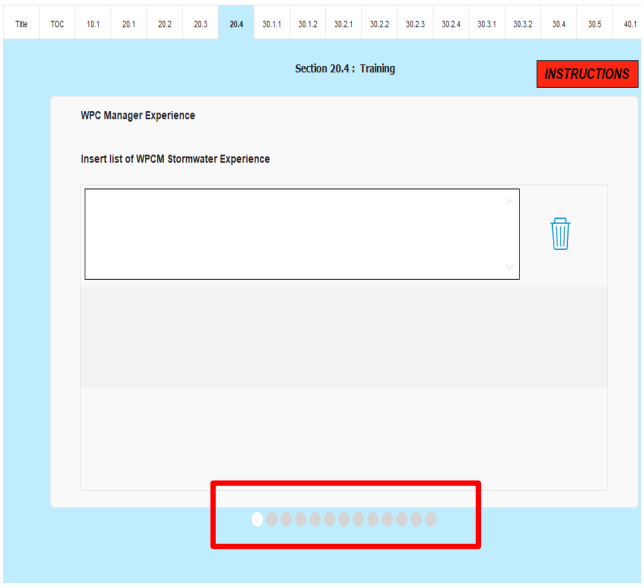

Figure 4-15. Toggle buttons for various input fields

4.6 Print Existing WPCP Instructions

From the Existing WPCP selection screen, select the Print Menu as shown in Figure 4-16 below.

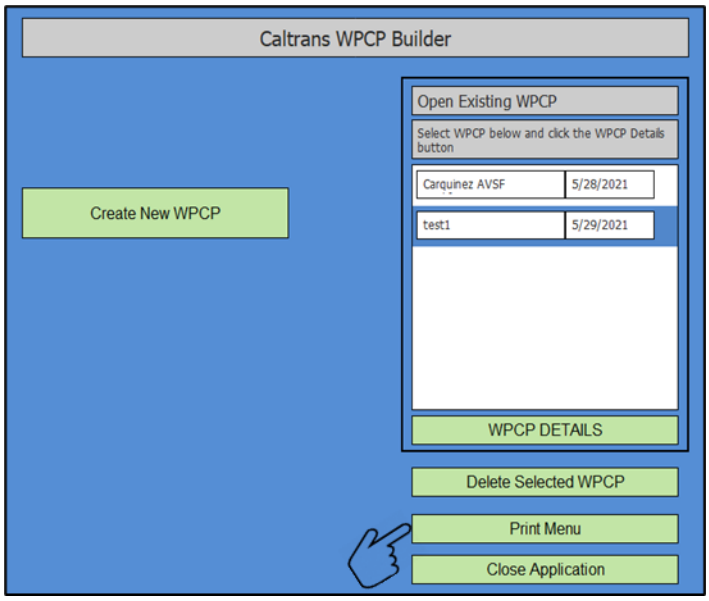

Figure 4-16. Access Print Screen Window

The selected WPCP input field will be created and a print ready file will be ready to print by sections or in its entirety depending on the selection made. The WPCP Sections can be previewed, or a PDF of a section or the entire WPCP can be created and saved or printed as you choose (Figure 4-17).

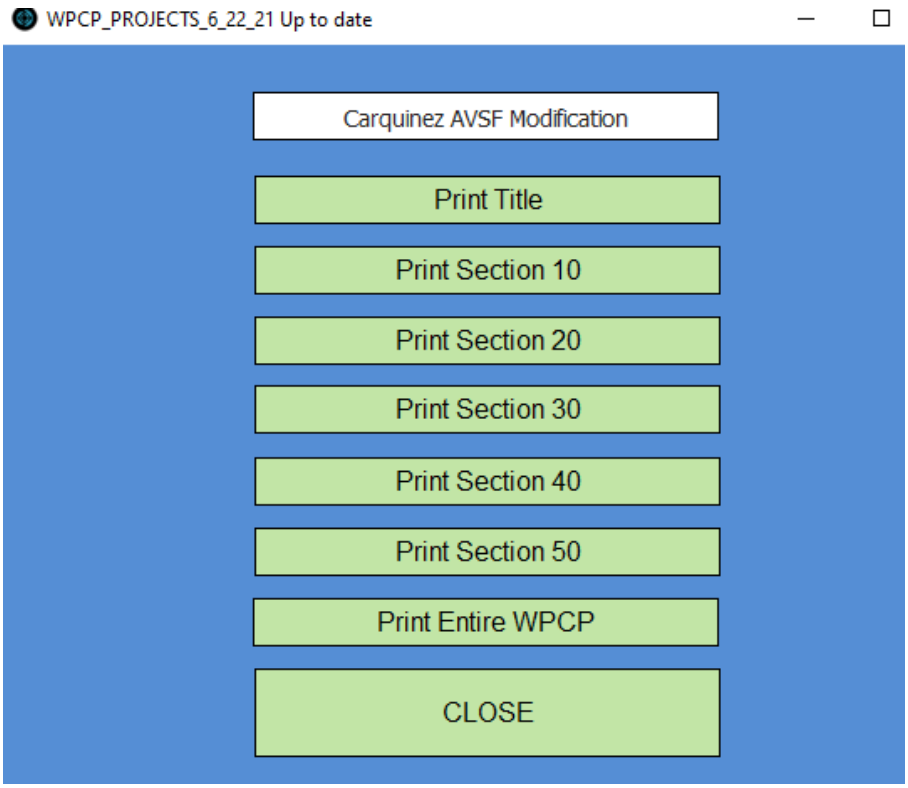

Figure 4-17. WPCP Print Screen Window

4.7 To Review a Section

Once the information has been entered, the user can click-on Print Menu Section (Figure 4-18). A pop-up window will appear with the automated required WPCP text which is populated with the construction site specific information entered by the user. At the top of the pop-up window, the user can click forward to review additional pages as shown in the close-up image.

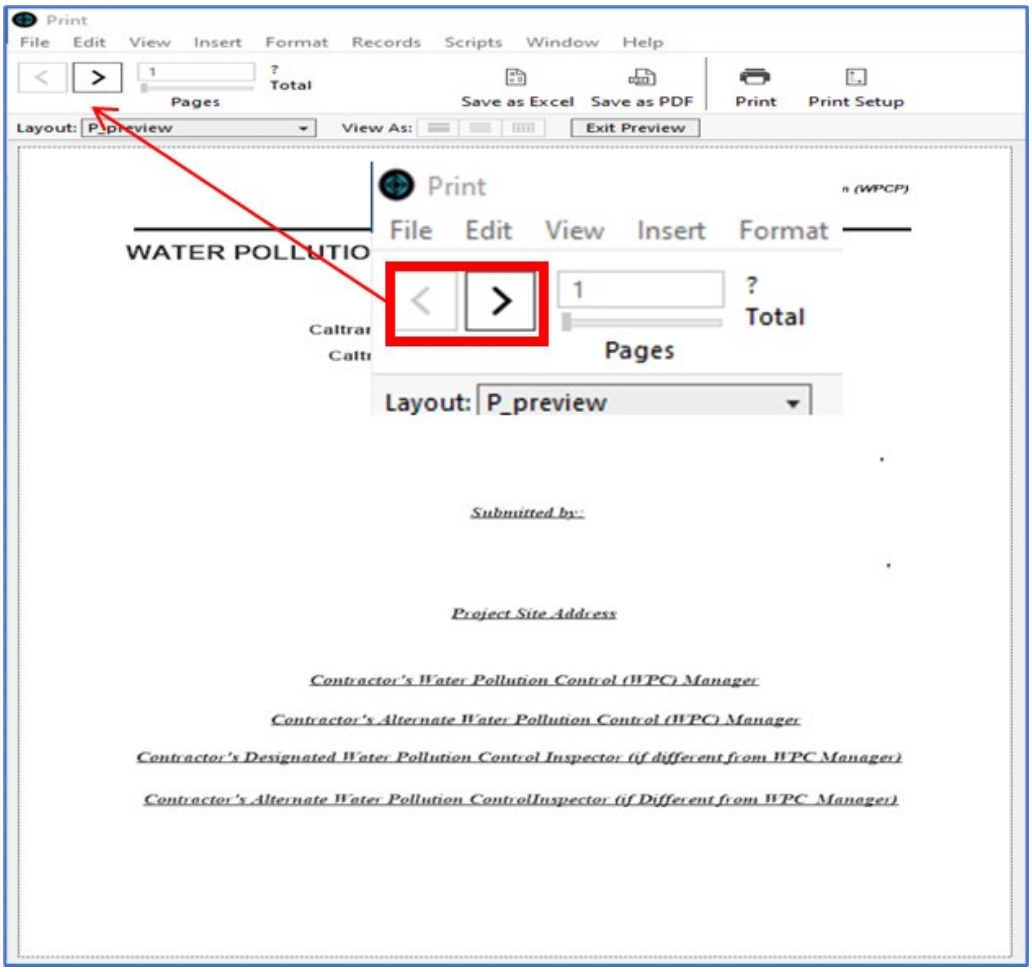

Figure 4-18. Pop-Up Screen with Automated Text

Section 5

WPCP Tab Input Sections

This section covers the actual input descriptions and instructions for the development of the WPCP for projects in Caltrans right-of-way. The information entered into the WPCP is automatically saved. The user may choose to either close the window, which saves information added to continue at a later date, or tab to another section to complete it.

5.1 Title Section

To complete this section, the user must enter the following information in the provided fields. The title page shall have the following information:

- Project Name
- Caltrans contract number
- Caltrans project identifier number
- Identification and address of Lead Agency (Caltrans or Local Agency)
- If a Local Agency/Private Entity is administering the project enter the Caltrans encroachment permit number for permit issued to the public agency/private entity and the Caltrans encroachment permit number for the permit issued to the contractor
- Caltrans' RE name and telephone number
- Contractor's name, address, telephone number and Contractor's Owner/Representative's Name
- Project site address, and telephone number.
- Name of the Contractor's WPC Manager and telephone number. The WPC Manager must be at a minimum a QSP.
- Name of the Contractor's Alternate/Substitute WPC Manager and telephone number if one has been designated. The alternate/substitute WPC Manager must be at a minimum a QSP
- Name of the Contractor's Assistant WPC Manager
- Name of the company that developed the WPCP (if it was prepared by an outside consultant), including name, address, and title of preparer
- WPCP preparation Date

5.2 TOC Section

5.2.1 WPCP Builder Instructions

As needed, use this section to insert additional attachments and appendices to the WPCP (Figure 5-1).

Attachments: The user should include any specific environmental permits for the project (e.g., Water Quality Certification, a dewatering permit from a Regional Board or a Publicly Owned Treatment Works (POTW) permit if discharging to a POTW instead of a storm drain or waterbody).

Appendices: If there are specific CEM forms that are not included in the TOC, please add them here and include them in the approved WPCP.

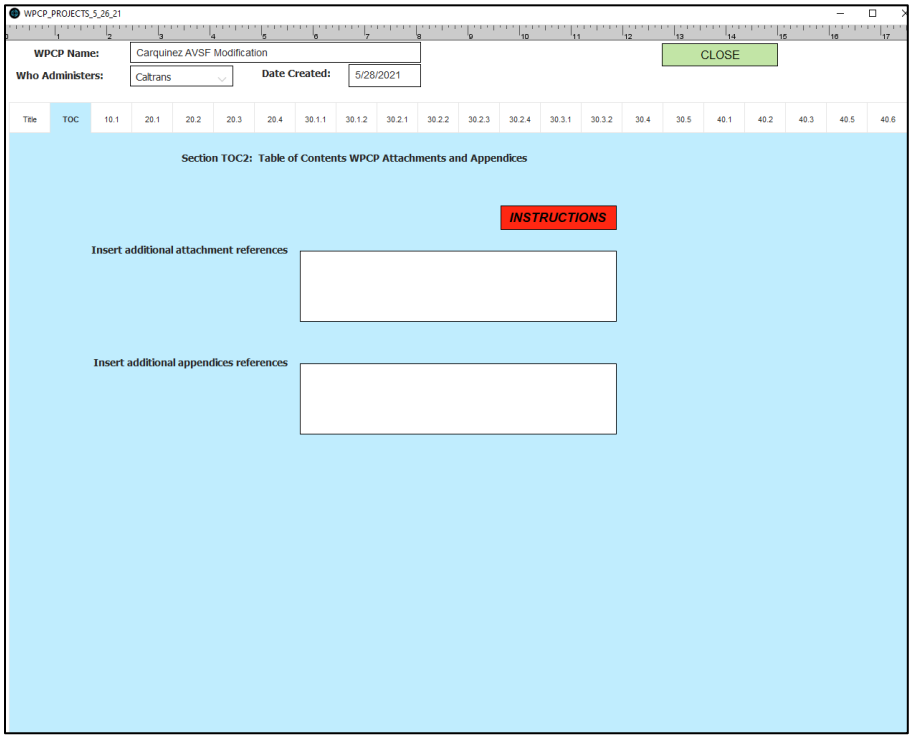

Figure 5-1. Section TOC2 Attachments and Appendices Screen

The standard attachment and appendix lists are:

Attachments:

Attachment A Water Pollution Control Drawings

Attachment B Water Pollution Control Schedule

Attachment C WPCP Amendments

Attachment D Stormwater Training Documentation

Appendices:

Appendix A CEM-2008 SWPPP/WPCP Amendment Certification and Authorization

Appendix B CEM-2009 SWPPP/WPCP Amendment Log

Appendix C CEM-2023 Stormwater Training Record

Appendix D CEM-2024 Stormwater Training Log (Optional)

Appendix E CEM-2034 Monthly Stormwater BMPs & Material Inventory Report Optional)

Appendix F CEM-2030 Stormwater Site Inspection Report

Appendix G CEM-2035 Stormwater Corrective Actions Summary or

CEM-2035T Stormwater Corrective Actions Summary- Lake Tahoe Hydrologic Unit

Appendix H CEM-2061 Notice of Discharge Report or

CEM-2061T Notice of Discharge Report – Lake Tahoe Hydrologic Unit Stormwater Sample Field Test Report/Receiving Water Monitoring Report

5.3 Section 10 Instructions

Section 10.1 has the following instructions (Figure 5-2).

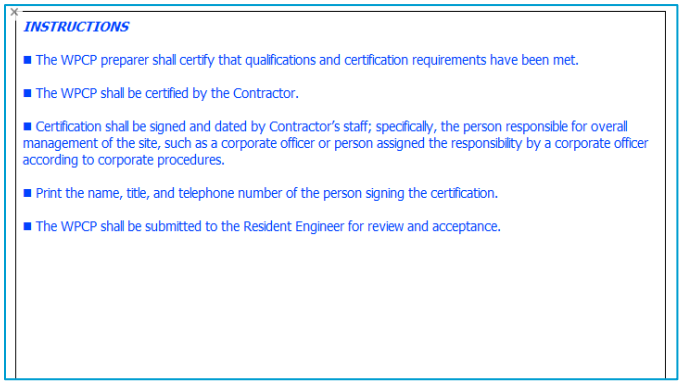

Figure 5-2. Section 10.1 Instructions

5.3.1 Input Fields

This section is for the certification of the prepared WPCP by the preparer, the contractor who will be constructing the project and the Caltrans representative (RE). All parties are responsible to ensure that the WPCP represents the field operations and that appropriate BMPs are implemented to prevent reportable discharges (Figure 5-3).

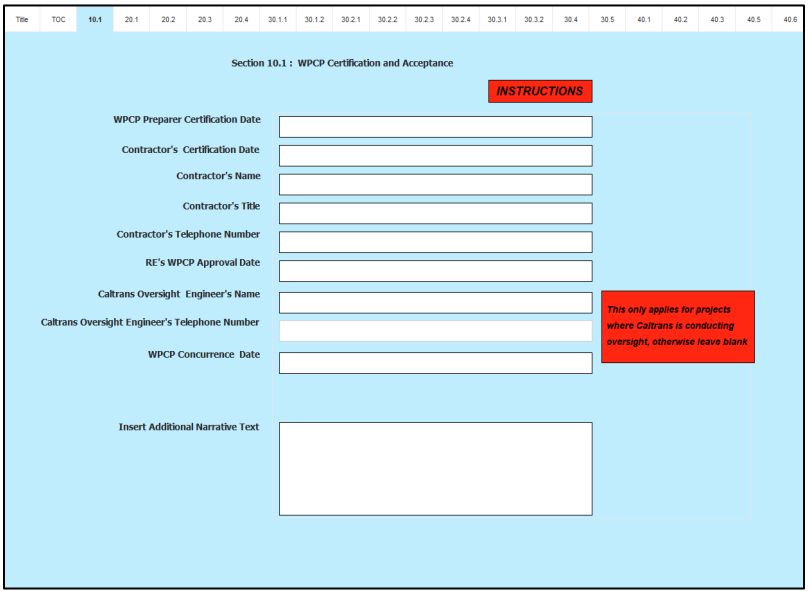

Figure 5-3. WPCP Certification and Acceptance

The Additional Narrative Text field can be used to add to the WPCP Certification and Acceptance Section whenever there are additional directly related approvals such as whether this has been reviewed and concurred by a Regional Board or other environmental entity. Any approval by others should be based on additional attachments added to the Title Section.

5.4 Section 10.2 Amendments

An amendment log should be included in Attachment C however no other documentation is required for the initial WPCP preparation.

5.4.1 Instructions for Section 10.2 Amendments

The WPCP shall be amended whenever there is a change in construction or operations that may cause the discharge of significant quantities of pollutants to surface waters, ground waters, municipal storm drain systems, or when deemed necessary by the RE. All WPCP amendments shall be documented in letter format and include revised WPCD sheets, as appropriate. WPCP amendments shall be certified by the contractor and require acceptance by the Caltrans or Local Agency/Private Entity, RE (and Caltrans Oversight Engineer if applicable). Accepted amendments shall be attached to the Contractor's on-site WPCP in Attachment C.

The following items will be included in the amendment, as appropriate:

- Who requested the amendment
- Location of proposed change
- Reason for change
- The original BMP proposed, if any
- The new BMP proposed
- Any revised WPCDs for detail or location changes
- Include a copy of the Amendment Log in Attachment C.

The certification form shall be included in Attachment C and shall be signed by the contractor and the RE (and Oversight Engineer if applicable) for each amendment. The signed forms shall be included with the Amendment.

If Caltrans is administering the project then the Caltrans RE, as the authorized representative of the Department, shall be responsible for reviewing and accepting the amendment.

If a Local Agency/Private Entity is administering the project, then the Local Agency/Private Entity RE shall be responsible for reviewing and accepting. When the amendment is accepted by the Local Agency/Private Entity RE, then form CEM-2008 SWPPP/WPCP Certification and Acceptance shall be provided to the Caltrans Oversight Engineer for concurrence.

Amendments shall be documented on CEM-2009 SWPPP/WPCP Amendment Log form. Enter the Amendment number, date, brief description, and name of the person who requested the Amendment in the amendment log. Include a copy of CEM-2009 SWPPP/WPCP Amendment Log in WPCP Attachment C. Specific Amendment requirement must be completed in accordance with Section 13 of the Caltrans Standard Specifications.

5.4.2 Amendment Input Fields

No input fields required for this Section as there will be no amendments until after the WPCP is accepted by Caltrans. To view this section, go to Print Section 10.

5.5 Section 20

Section 20 covers the main project description, including any specific site features, waterbodies as well as the contact information for those responsible for stormwater implementation including their training and stormwater experience.

5.5.1 Section 20.1 Project Description Instructions

The instruction for this subsection lists the various information that should be included in the overall project description (Figure 5-4).

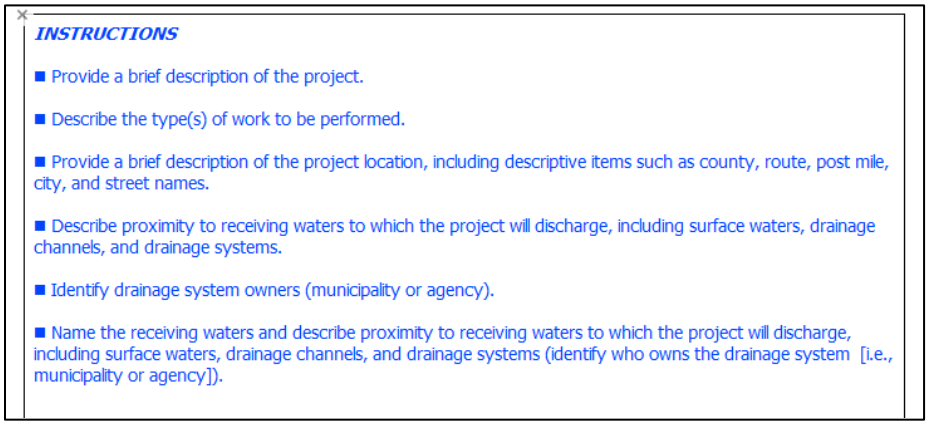

Figure 5-4. Section 20.1 Instructions

5.5.2 Section 20.1 Input Fields

The input field is not restrictive in size. It allows for a lot of information to be inputted so that it can be as descriptive as possible.

Provide narrative text with the following types of information:

- Provide a brief description of the project.
- Describe the type(s) of work that will be performed.
- Provide a brief description of the project location, including descriptive items such as county, route, post mile, city, and street names.
- Describe proximity to receiving waters to which the project will discharge, including surface waters, drainage channels, and drainage systems.
- Identify drainage system owners (municipality or agency).
- Name the receiving waters and describe proximity to receiving waters to which the project will discharge, including surface waters, drainage channels, and drainage systems (identify who owns the drainage system; i.e., municipality or agency.)

5.5.3 Section 20.2 Instructions

The instruction for this subsection lists the various information that should be included in the unique site feature description (Figure 5-5).

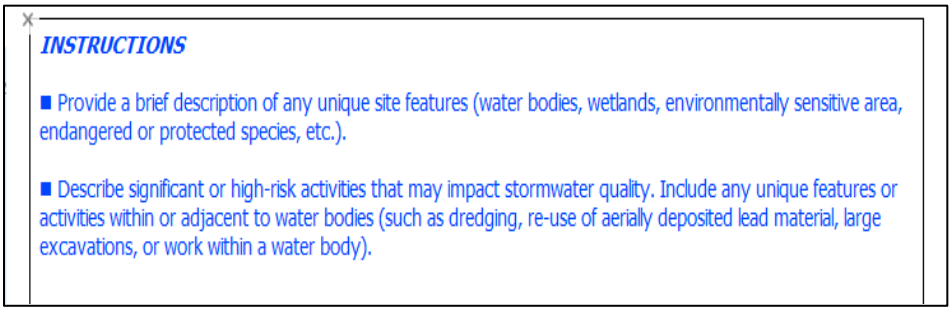

Figure 5-5. Section 20.2 Instructions

5.5.4 Section 20.2 Input Fields

Provide narrative text with the following types of information:

- Provide a brief description of any unique site features (water bodies, wetlands, ESAs, endangered or protected species, etc.).
- Describe significant or high-risk activities that may impact stormwater quality. Include any unique features or activities within or adjacent to water bodies (such as dredging, re-use of aerially deposited lead material, large excavations, or work within a water body). Any specific environmental requirements can be spelled out here but the regulatory permits should be included as appendices to the WPCP.

5.5.5 Section 20.3 Instructions

The instruction for this subsection requires the WPCP Preparer to include the contact information for all the parties who are responsible for stormwater implementation (Figure 5-6).

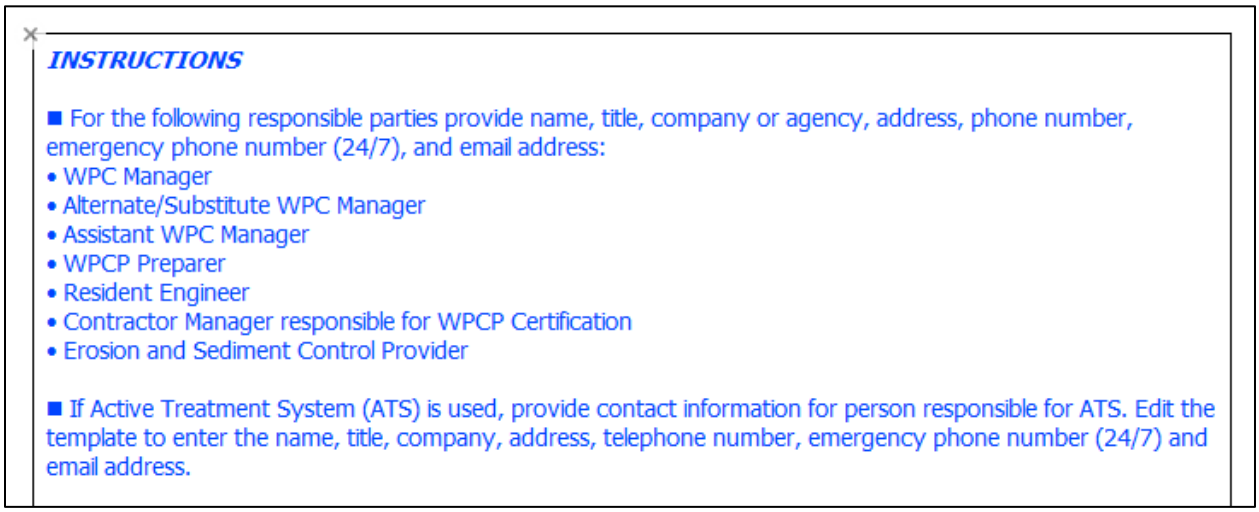

Figure 5-6. Section 20.3 Instructions

5.5.6 Section 20.3 Input Fields

For the following responsible parties provide name, title, company or agency, address, telephone number, emergency phone number (24/7), email address:

- Resident Engineer
- Contractor Site Manager responsible for Stormwater Certification
- WPC Manager
- Alternate/Substitute WPC Manager
- Assistant WPC Manager
- Erosion and Sediment Control Provider

If there are added responsibilities associated with the WPCP insert additional responsibilities and/or names. This could include ATS information, provide contact information for person responsible for ATS.

5.5.7 Section 20.4 Instructions

This section documents the training and experience of the personnel tasked with field stormwater implementation (Figure 5-7).

INSTRUCTIONS

■ Formal training is required for individuals responsible for WPCP development, implementation and amending or revising the WPCP. Training is required for those personnel responsible for installation, inspection, maintenance, and repair of BMPs. The WPCP shall document all training.

■ Describe the training for the following individuals responsible for the WPCP:
- WPC Manager
- Alternate/Substitute WPC Manager
- WPCP Preparer
- Assistant WPCM

■ Describe the types of training that the Contractor's or subcontractor's BMP inspection, maintenance, and repair personnel have received or will receive.

■ Describe the types of training provided for all Contractor and subcontractor employees directly related to water pollution control. Existing Contractor and subcontractor employees shall receive training prior to working on the project. New employees shall receive water pollution control training prior to working on the project site and the training records shall be submitted to the Resident Engineer within 5 days of training.
■ Training may be both formal and informal (Construction General Permit training, etc.).

■ Formal water pollution control or erosion and sediment control training sessions may include certification as a Certified Professional in Erosion and Sediment Control (CPESC); workshops offered by the State Water Resources Control Board (SWRCB), Regional Water Quality Control Board (RWQCB), Community College or University of California Extension; or other locally recognized agencies or professional organizations such as the International Erosion Control Association (IECA), Association of Bay Area Governments (ABAG), Association of General Contractors (AGC), etc. Contractors are encouraged to contact the RWQCB or the SWRCB to inquire about availability of training.

■ A listing of training organizations, subject matter, and classes are available at http://www.dot.ca.gov/hq/construc/stormwater/stormwater1.html

■ The Contractor's WPC Manager shall the training and required qualifications and training for (QSD) or QSP under the Construction General Permit (CAS000002), Section VII, Training Qualifications and Certification

■ On-site informal water pollution control training shall be conducted on an ongoing basis.

■ Document informal stormwater training using the sample training log sheet provided as Appendix C.

■ Document formal stormwater training by providing a list of classes and copies of class completion documentation. Documentation shall be submitted to the Resident Engineer within 24 hours of completion of training.

■ Training records shall be updated, documented and reported in WPCP file category 20.23 Contractor Personnel Training Documentation.

■ Caltrans requires the WPCM, the Alternate/Substitute and the Assistant WPCM to attend 8-hour WPCM Training as described in section 13 of the Standard Specifications and Revised SSPs.

Figure 5-7. Section 20.4 Instructions

5.5.8 Section 20.4 Input Fields

Toggle over the required input fields to include the specific registration, experience and training for:

- the WPC Manager,
- the Alternate/Substitute WPCM,
- the Assistant WPC Manager,
- the WPCP Preparer
- the contractor's staff who will be conducting field implementation (installation and maintenance of BMPs).

5.6 Section 30

This section covers materials and potential pollutants that might be present on site and the six categories of BMPs that will be implemented.

5.6.1 Section 30.1.1 Instructions

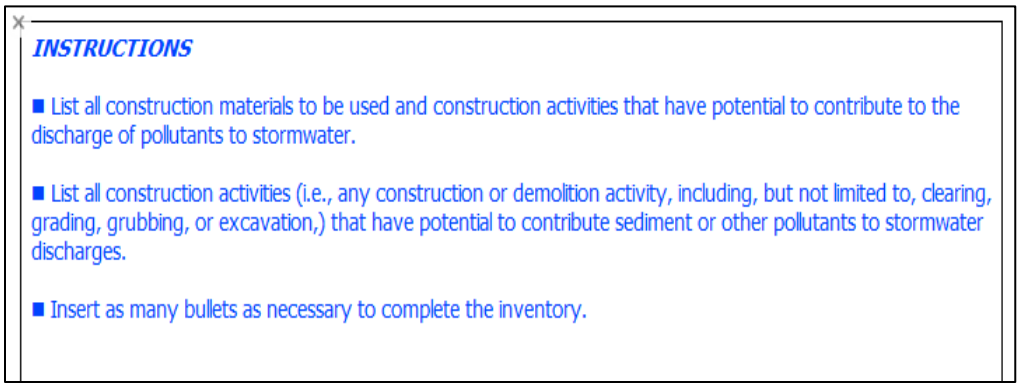

Figure 5-8. Section 30.1.1 Instructions

5.6.2 Section 30.1.1 Input field

The input fields here are 3 different screens within this subtask that you can toggle to. The input fields are not restrictive in size and therefore narrative text can be added in all input fields.

- Construction activities that may contribute sediment to the stormwater runoff
- Construction materials and activities that may contribute other pollutants to the stormwater runoff
- Any other text that might be pertinent to provide a comprehensive overview of the project potential activities or materials that can contribute to polluted discharges

5.6.3 Section 30.1.2 Instructions

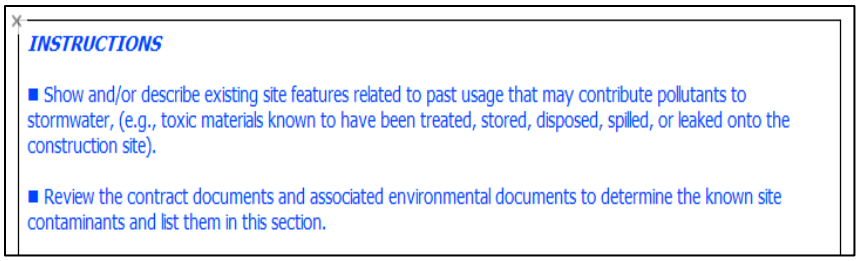

Figure 5-9. Section 30.1.2 Instructions

5.6.4 Section 30.1.2 Input field

The input fields here are 3 different screens within this subtask that you can toggle to. The input fields are not restrictive in size and therefore narrative text can be added in all input fields.

- List contaminants known to exist at the project site
- Insert any existing features that could contribute pollutants to stormwater
- Any other text that might be pertinent to provide a comprehensive overview of the project existing contaminants that can be discharged (e.g., toxic materials that are known to have been treated, stored, disposed, spilled, or leaked onto the construction site).

5.6.5 Section 30.2.1 Soil Stabilization BMPs Instructions

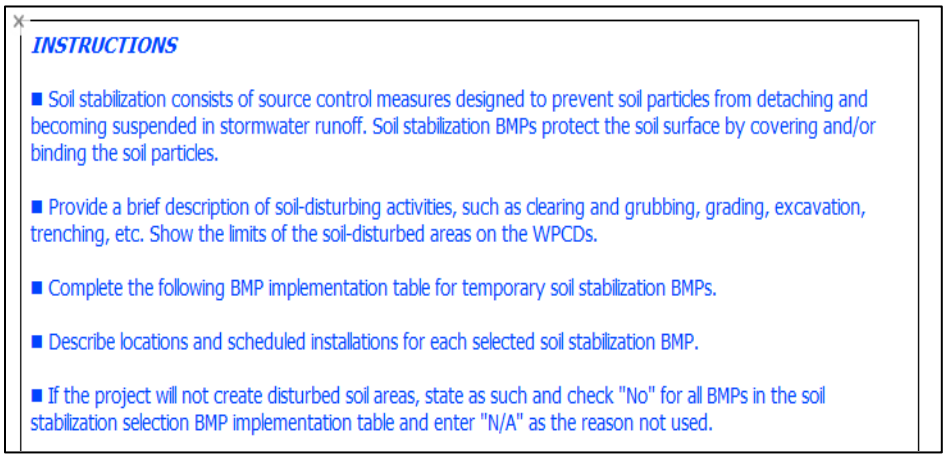

Figure 5-10. Section 30.1.2 Instructions

5.6.6 Section 30.2.1 Input field

This section is the soil stabilization category of BMPs and consist of narrative and table completion of BMPs to be implemented. This includes line items in the contract as well as additional BMPs identified by the WPCP Preparer due to site operations.

- If the project will not create DSAs, state as such and check "No" for all BMPs in the soil stabilization selection BMP implementation table and enter "N/A" as the reason not used.
- Choose Yes or No if Alternative BMPs will be used on the project.

5.6.7 Section 30.2.2 Sediment Control BMPs Instructions

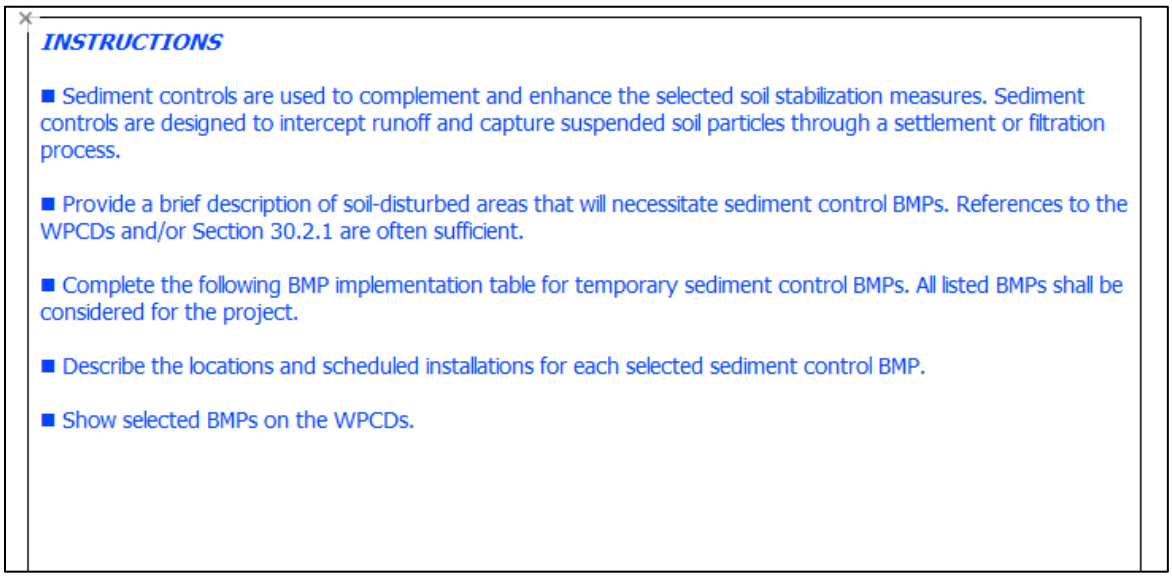

Figure 5-11. Section 30.2.2 Instructions

5.6.8 Section 30.2.2 Input field

This section is the sediment control category of BMPs and consist of narrative and table completion of BMPs to be implemented. This includes line items in the contract as well as additional BMPs identified by the WPCP Preparer due to site operations.

- If the project will not create DSAs, or no other BMPs are applicable for this section state as such and check "No" for all BMPs in the BMP implementation table and enter "N/A" as the reason not used.
- Choose Yes or No if Alternative BMPs will be used on the project. Provide a description of what BMP will be implemented and provide a narrative describing its implementation.

5.6.9 Section 30.2.3 Temporary Tracking Control BMP Instructions

Temporary Tacking BMPs consist of measures to prevent tracking onto public streets or to be discharged from Caltrans right-of-way (Figure 5-12).

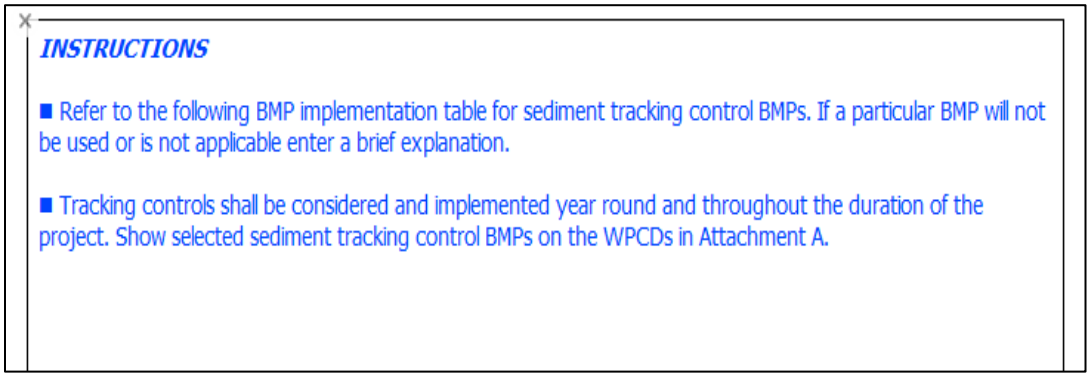

Figure 5-12. Section 30.2.3 Instructions

5.6.10 Section 30.2.3 Input field

Provide a description of the tracking controls BMPs to be used. References to the WPCDs. Describe the locations and scheduled installations for each selected BMP.

5.6.11 Section 30.2.4 Wind Erosion Control BMP Instructions

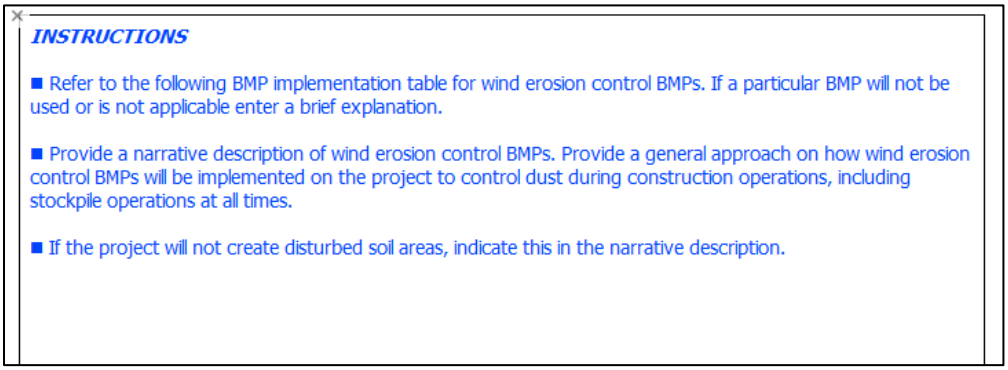

Figure 5-13. Section 30.2.4 Instructions

5.6.12 Section 30.2.4 Input field

Provide a description of wind erosion control BMPs to be used. Give a general approach on how wind erosion control BMPs will be implemented on the project to control dust during construction operations, including stockpile operations at all times. If there are wind abatement requirements imposed by municipality, indicate this in the narrative description.

5.6.13 Section 30.3.1 Job Site Management Instructions

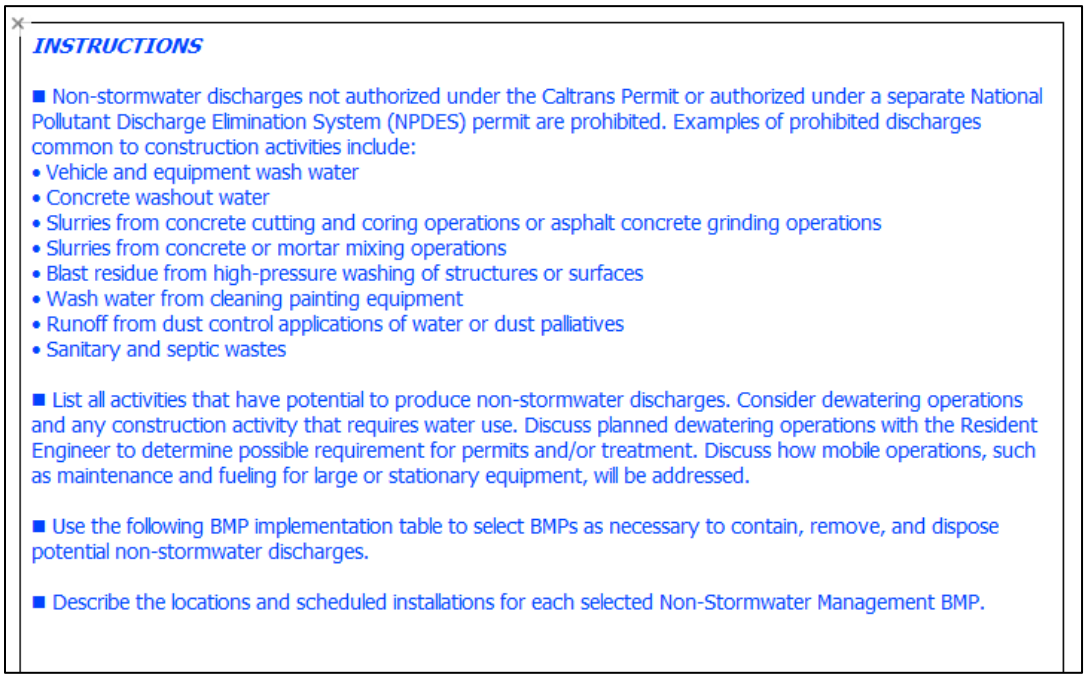

Figure 5-14. Section 30.3.1 Instructions

5.6.14 Section 30.3.1 Input field

Provide a description narrative description of the non-stormwater management BMPs to be used. Give a general approach on how non-stormwater management BMPs will be implemented on the project.

- List all activities that have the potential to produce non-stormwater discharges.
- Consider dewatering operations and any construction activity that requires water use.
- Discuss planned dewatering operations with the RE to determine possible requirement for permits and/or treatment.
- Discuss how mobile operations, such as maintenance and fueling for large or stationary equipment, will be addressed.
- Describe the locations and scheduled installations for each selected Non-Stormwater Management BMPs.

5.6.15 Section 30.3.2 Waste Management and materials Pollution Control Instructions

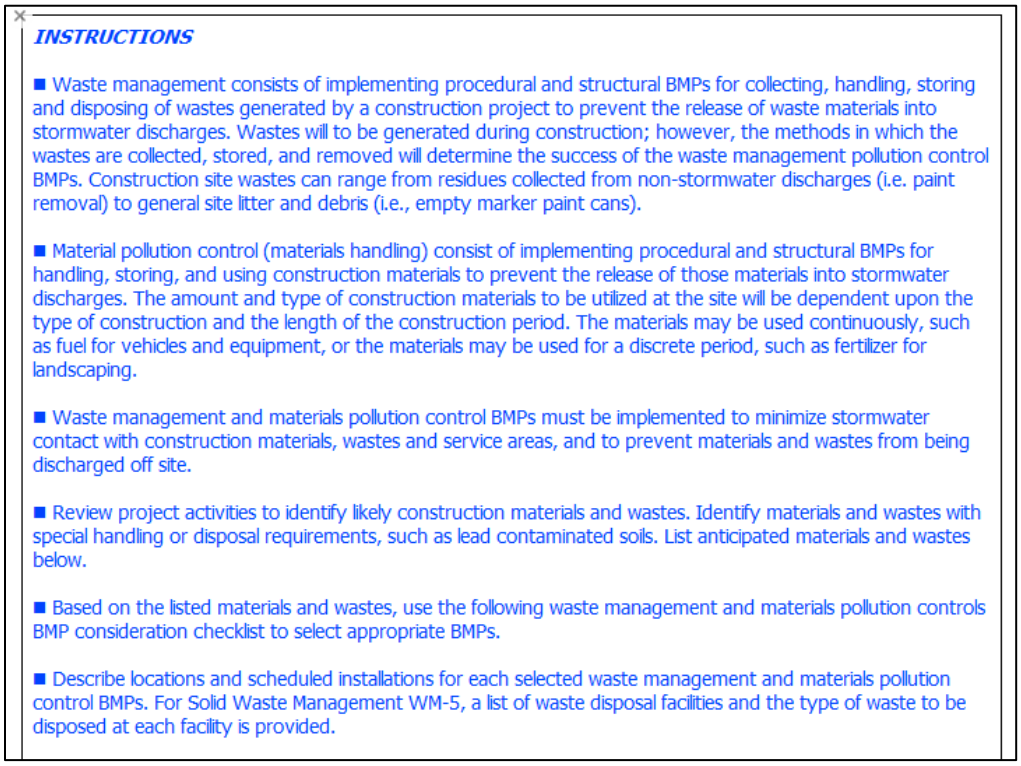

Figure 5-15. Section 30.3.2 Instructions

5.6.16 Section 30.3.2 Input field

Provide a narrative description of the waste management and material pollution control BMPs. Give a general approach on how waste management and material pollution control BMPs will be implemented on the project.

- Describe the locations and scheduled installations for each selected waste management and materials pollution control BMPs.
- Review project activities to identify likely construction materials and wastes. Identify materials and wastes with special handling or disposal requirements, such as lead contaminated soils.
- For Solid Waste Management WM-5, a list of waste disposal facilities and the type of waste to be disposed at each facility is provided. Standard Table: Complete the BMP implementation table for waste management and materials pollution control BMPs.

5.6.17 Section 30.4 Water Pollution Control Drawings Instructions

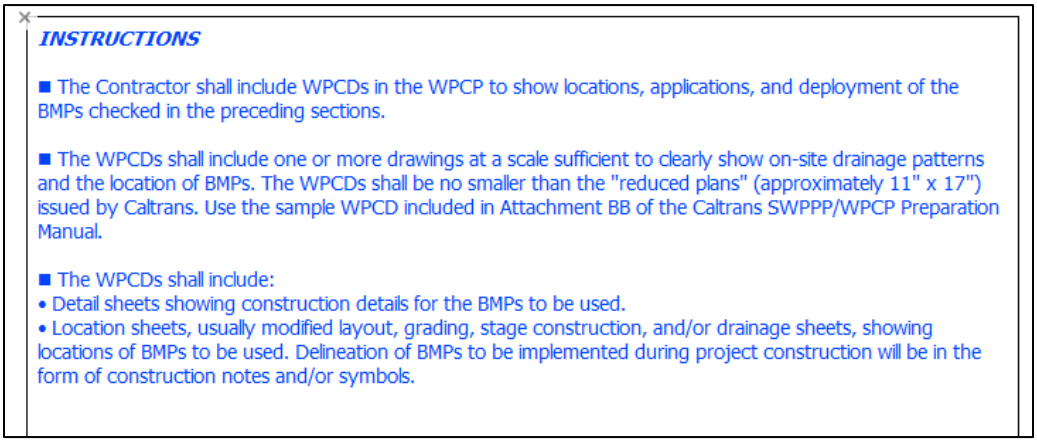

Figure 5-16. Section 30.4 Instructions

5.6.18 Section 30.4 Input field

Insert additional narrative text for Water Pollution Control Drawings, as needed. If no additional text is necessary, leave blank. Automated text will populate the WPCP and can be viewed in Print Section 30, when preparing to print the WPCP.

5.6.19 Section 30.5 Water Pollution Control Schedule Instructions

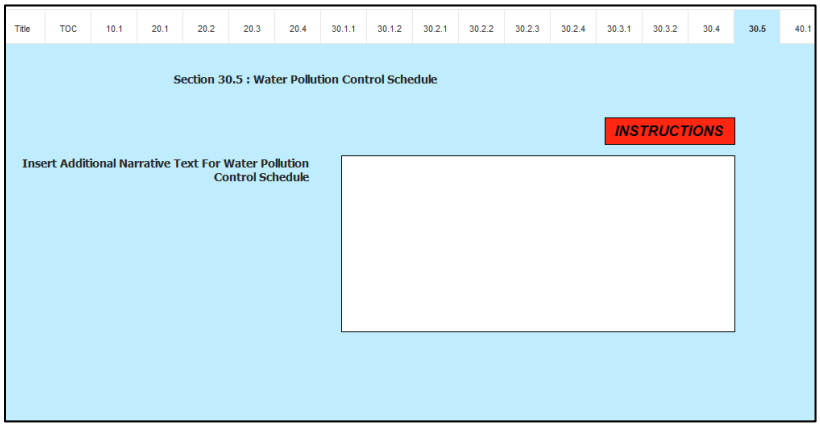

Figure 5-17. Section 30.5 Instructions

5.6.20 Section 30.5 Input field

Insert additional narrative text for WPCP, as needed. If no additional text is necessary, leave blank. Automated text will populate the WPCP and can be viewed in Print Section 30, when preparing to print the WPCP.

5.7 Section 40

Section 40 describes the WPC responsibilities including weather forecasting, BMP status Report preparation and submittal and stormwater site inspection.

5.7.1 Section 40.1 Instructions

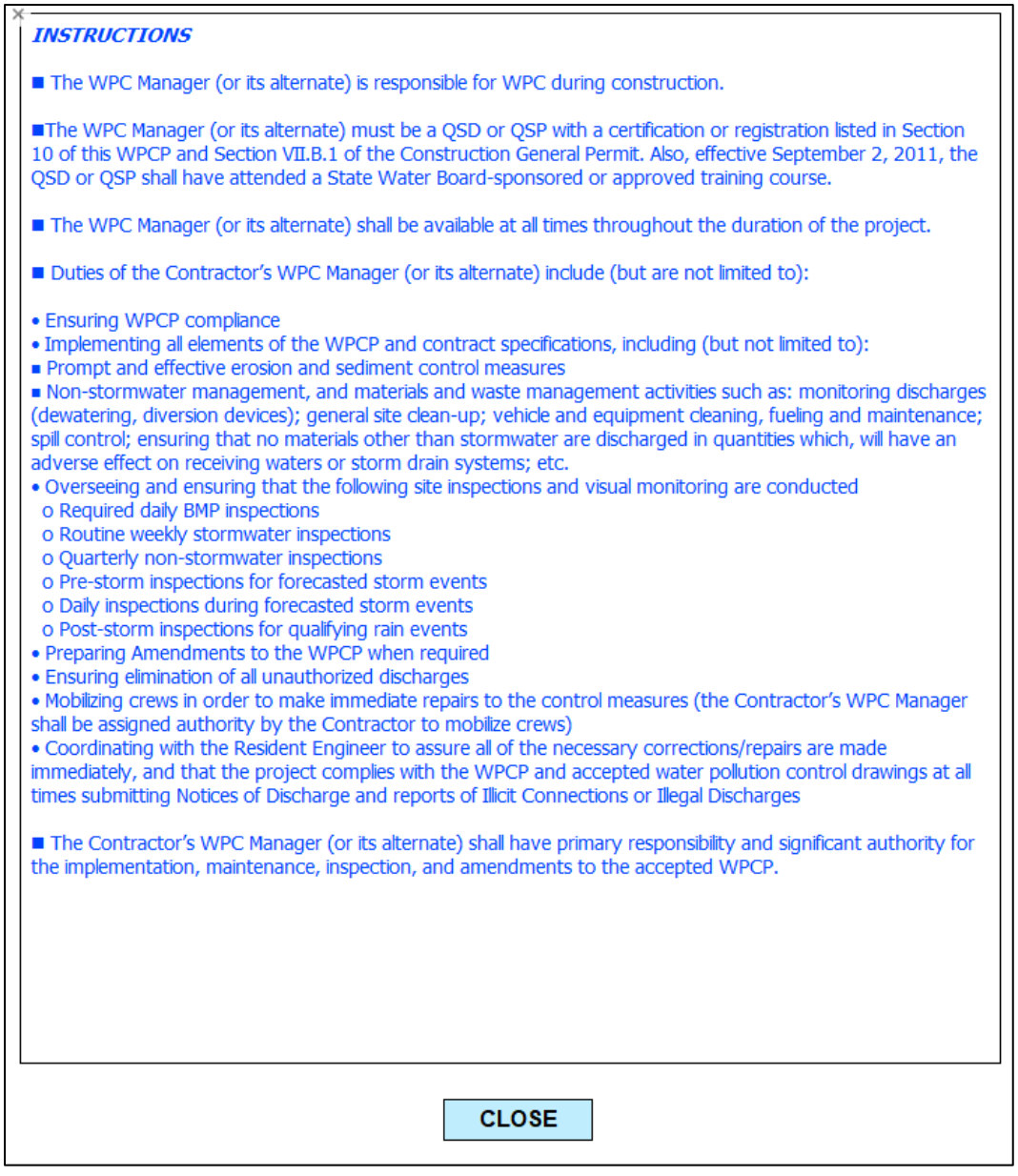

Figure 5-18. Section 40.1 Instructions

5.7.2 Section 40.1 Input Field

Insert additional narrative text for additional responsibilities and/or names, as needed. If no additional text is necessary, leave blank. Automated text will populate the WPCP and can be viewed in Print Section 40, when preparing to print the WPCP.

5.7.3 Section 40.2 Instructions

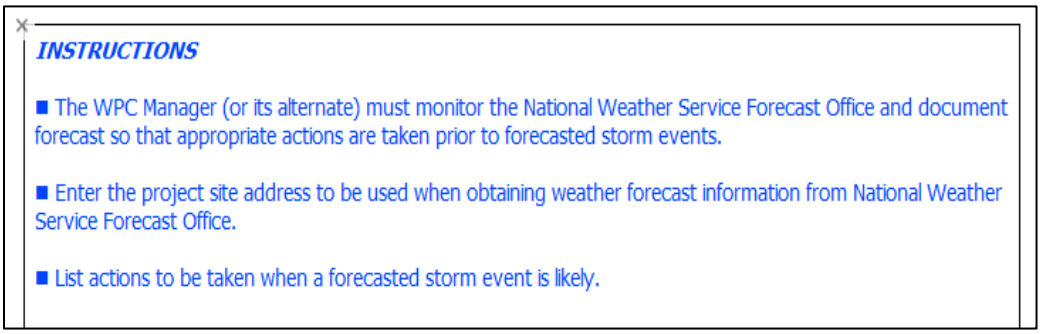

Figure 5-19. Section 40.2 Instructions

5.7.4 Section 40.2 Input Field

Enter the project site address that will be used when obtaining weather forecast information from National Weather Service Forecast Office. The WPCP Preparer must also input the latitude and longitude of the project.

5.7.5 Section 40.3 Instructions

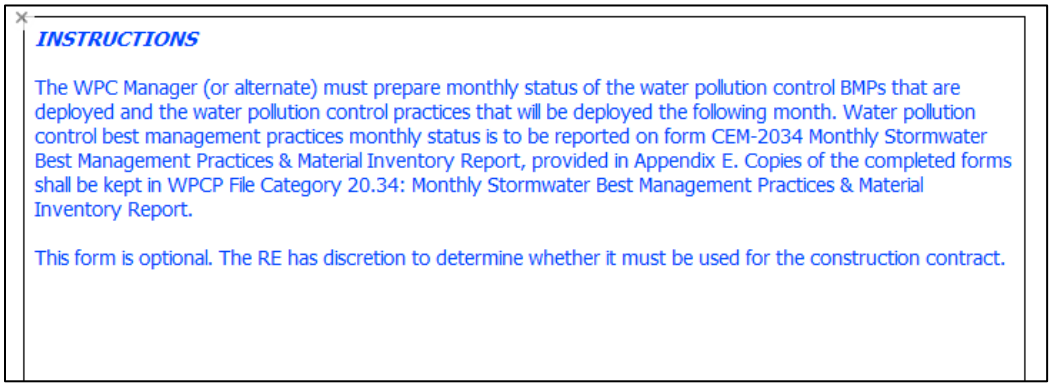

Figure 5-20. Section 40.3 Instructions

5.7.6 Section 40.3 Input Field

Insert additional narrative text for the BMP Status Report, as needed. If no additional text is necessary, leave blank. Automated text will populate the WPCP and can be viewed in Print Section 40, when preparing to print the WPCP.

5.7.7 Section 40.4 Instructions

No action required. Required text will automatically populate the WPCP and can be viewed in Print Section 40, when preparing to print the WPCP.

5.7.8 Section 40.4 Input Field

No action required. Required text will automatically populate the WPCP and can be viewed in Print Section 40, when preparing to print the WPCP.

5.7.9 Section 40.5 Instructions

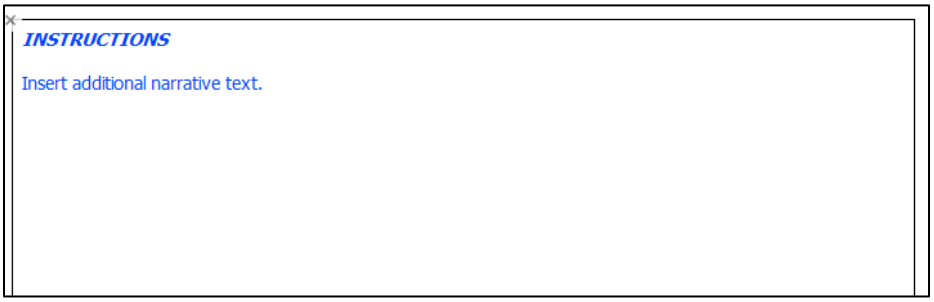

Figure 5-21. Section 40.5 Instructions

5.7.10 Section 40.5 Input Field

No action required. Required text will automatically populate the WPCP and can be viewed in Print Section 40, when preparing to print the WPCP.

5.7.11 Section 40.6 Instructions

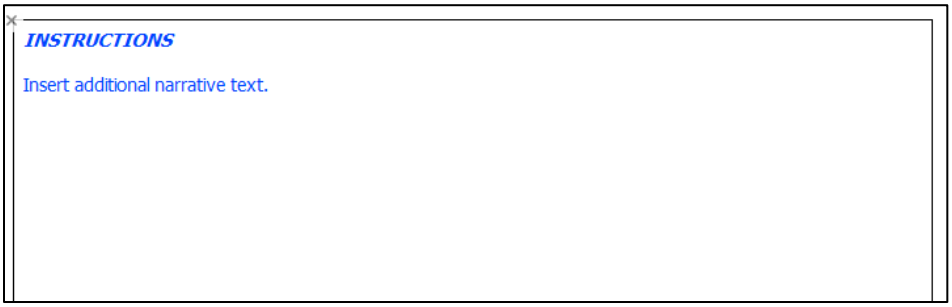

Figure 5-22. Section 40.6 Instructions

5.7.12 Section 40.6 Input Field

No action required. Required text will automatically populate the WPCP and can be viewed in Print Section 40, when preparing to print the WPCP.

5.8 Section 50

Section 50 of the WPCP contains all the reporting requirements for the project.

5.8.1 Section 50.1 Record Keeping

To manage the various documents required to by the WPCP and to provide easy access to the documents the following WPCP file categories will be used to file WPCP compliance documents:

- File Category 20.01 Water Pollution Control Program (WPCP)
- File Category 20.03 Water Pollution Control Schedule Updates
- File Category 20.10 Correspondence
- File Category 20.23 Stormwater Training Documentation
- File Category 20.31 Contractor Stormwater Site Inspection Reports
- File Category 20.33 Site Visual Monitoring Inspection Reports
- File Category 20.34 Best Management Practices Weekly Status Report
- File Category 20.40 Weather Monitoring Logs
- File Category 20.61 Notice of Discharge Reports Records shall be retained for a minimum of three years for the following items:
  - Accepted WPCP and Amendments
  - Stormwater Site Inspection Reports
  - Site Inspection Report Corrective Actions Summary
  - Notice of Discharge Report

5.8.2 Section 50.2 Discharge Reporting

If a discharge or evidence of a prior discharge is discovered by the contractor, the contractor shall notify the RE within 6 hours of the discharge event or discovery, and will file a written report to the RE within 48 hours of the discharge event or discovery of evidence of a prior discharge. The written report to the RE will contain the following items:

- the date, time, location, and type of unauthorized discharge
- nature of operation that caused the discharge
- initial assessment of any impacts caused by the discharge
- the BMPs deployed before the discharge event the date of deployment and type of BMPs deployed after the discharge event, including additional measures installed or planned to reduce or prevent re-occurrence
- steps taken or planned to reduce, eliminate and/or prevent recurrence of the discharge

Reporting of discharges shall be documented on CEM-2061 Notice of Discharge Report, in Appendix H. Completed CEM-2061 Notice of Discharge Report shall be submitted to the RE within 24 hours of discharge event or discovery of evidence of a prior discharge. Copies of the CEM-2061 Notice of Discharge Report will be kept in WPCP File Category 20.61: Notice of Discharge Reports.

5.8.3 Section 50.3 Regulatory Agency notice or Order Reporting Discharge Reporting

If the project receives a written notice or order from any regulatory agency, the contractor will notify the RE within 6 hours or receiving the notice or order and will file a written report to the RE within 48 hours of receiving the notice, or order. Corrective measures will be implemented immediately following the notice or order.

The report to the RE will contain the following items:

- date, time, location, and cause or nature of the notice or order
- BMPs deployed prior to receiving notice or order date of deployment and type of BMPs deployed after receiving the notice or order, including additional BMPs installed or planned to reduce or prevent re-occurrence
- an implementation and maintenance schedule for any affected BMPs

5.8.4 Section 50.4 illegal Connection/Illicit Discharge Reporting

If the contractor discovers an illicit connection or illegal discharge during a stormwater site visual monitoring site inspection or while performing work on the project notify the RE verbally upon discovering the illicit connection or illegal discharge.

Section 6

WPCP Attachments

WPCP Attachments A-D contain documents referenced by the WPCP. Step-by-step instructions are provided for preparing WPCP Attachments A–D and where appropriate examples of attachments are provided.

Attachment A WPCDs

Attachment B Water Pollution Control Schedule

Attachment C WPCP Amendments

Attachment D Contractor and Subcontractor Personnel Stormwater Training

6.1 Attachment A WPCDs

The WPCDs are the component of the project WPCP that show the necessary BMPs by project phase/stage for the project to be in compliance with Caltrans Standard Specifications and the contract special provisions. The WPCDs shall show 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 Caltrans rights-of-way. The WPCDs shall reflect the contractor's phasing and/or construction staging, and shall address the entire scope of the contract work.

When necessary to clearly define water pollution control practices by construction activity phases, the phases that should be shown on the WPCDs are the Preliminary Phase, Grading Phase, Highway Construction Phase, and the Highway Planting/Erosion Control Establishment Phase. These phases are defined below.

6.1.1 Preliminary Phase (Pre-Construction Phase – Part of the Grading Phase)

Construction stage including rough grading/or disking, clearing and grubbing operations, or any soil disturbance prior to mass grading.

6.1.2 Grading Phase

Includes reconfiguring the topography for the project including; excavation for roadway including necessary blasting of hard rock, highway embankment construction (fills); mass grading, and stockpiling of select material for capping operations.

6.1.3 Highway Construction Phase

Highway construction phase includes both highway and structure construction. Highway construction includes final roadway excavation, placement of base materials and highway paving, finish grading, curbs, gutters and sidewalks, public utilities, public water facilities including fire hydrants, public sanitary sewer systems, storm drain systems and/or other drainage improvements, highway lighting, traffic signals and/or other highway electrical work, guardrail, concrete barriers, sign installation, pavement markers, traffic stripping and pavement markings. Structure construction includes structure footings, bridges, retaining walls, major culverts, overhead sign structures and buildings.

6.1.4 Highway Planting / Erosion Control Establishment Phase

Highway planting including clearing and grubbing operations, soil preparation (grading, incorporation of soil amendments, placement of topsoil), irrigation (trenching, installation, trench backfilling), minor grading (top dressing, fine grading lawn and ground cover areas), hardscaping, planting (seeding and planting of plants), mulch (application of wood chips or other mulches) and plant establishment (weeding, plant replacement and if needed: fertilizer application, irrigation maintenance, reapplication of mulch). Erosion control includes placement of permanent erosion control materials and maintenance of temporary sediment controls during the erosion control establishment period.

The WPCDs for grading phase and highway construction phase may need to show different stages to completely identify all required BMPs. The stage construction sheets of the project plans may be used as base sheets for the WPCDs when staging is required.

The WPCDs provide field staff with the information on where to install BMPs so that they are effective. The WPCDs and WPCS provide the necessary tools for a contractor to plan and implement BMPs to meet the requirements of the project WPCP.

Prepare WPCDs in conformance with the following instructions and requirements. The WPCDs shall be no smaller than the “reduced plans” (approximately 11”x17”) issued by Caltrans.

- The WPCDs shall show locations for the BMPs that will be used.
- Include cover sheet(s) listing the BMPs that will be used along with the associated BMP symbols used on the WPCDs. Standard symbols and line types are shown in this Manual, Appendix B.
- Temporary WPC details not shown on applicable Standard Plans or contract plans must be shown in Attachment A.
- Additional BMP details may be necessary to describe site-specific BMP applications. BMP details other than the ones shown in the contract plans and Standard Plans shall be submitted to the RE for approval.

Use project layout, grading, stage construction, drainage sheets and/or erosion sheets as base sheets for the WPCDs. Use Section 30.1.2 as a guide to identify pollutant sources and BMPs for construction activities. Select BMPs that are appropriate for the site and show their locations on the WPCDs. The base sheets shall show the construction project in detail, including:

- The construction site perimeter
- Geographic features within or immediately adjacent to the site. Include surface waters such as lakes, streams, springs, wetlands, estuaries, ponds, and the ocean
- Site topography before and after construction. Include roads, paved areas, buildings, slopes, drainage facilities, and areas of known or suspected contamination
- Permanent (post-construction) BMPs. These are usually shown on the contract plans.

Delineate the following site information on the WPCDs:

- Discharge points from the project to site storm drain systems or receiving waters
- Tributary areas and drainage patterns across the project area (show using flow arrows) into each onsite stormwater inlet or receiving water
- Tributary areas and drainage patterns to each onsite stormwater inlet, receiving water or discharge point

- Off-site tributary drainage areas that generate run-on to the project. (Where off-site tributary drainage areas are too large to depict on the drawings, use map notes or inserts illustrating the upstream drainage areas)
- Temporary onsite drainage(s) to carry concentrated flows
- Drainage patterns and slopes anticipated after major grading activities are completed
- Outline all areas of existing vegetation, soil cover, or native vegetation that will remain undisturbed during the project
- Outline all areas of soil disturbance (DSAs)
- Identify location(s) of contaminated or hazardous soils
- Locate potential non-stormwater discharges and activities, such as dewatering operations, concrete saw-cutting or coring, pressure washing, waterline flushing, diversions, cofferdams, and vehicle and equipment cleaning. If operations can't be located, provide a narrative description.

Show proposed locations of all construction site BMPs on the WPCDs. Include additional detail drawings if necessary to convey site-specific configurations.

- Show temporary soil stabilization and temporary sediment control BMPs that will be used during construction. Include temporary onsite drainage(s) to carry concentrated flows, BMPs implemented to divert off-site drainage around or through the construction site, and BMPs that protect stormwater inlets
- Locate site ingress and egress points and any proposed temporary construction roads
- Show BMPs to mitigate or eliminate non-stormwater discharges
- Show BMPs for waste management and materials pollution control, including, but not limited to storage of soil or waste; construction material loading, unloading, storage and access areas; and areas designated for waste handling and disposal
- Show BMPs for vehicle and equipment storage, fueling, maintenance, and cleaning

Samples of WPCDs are shown on the following pages (Figure 6-1 through 6-5).

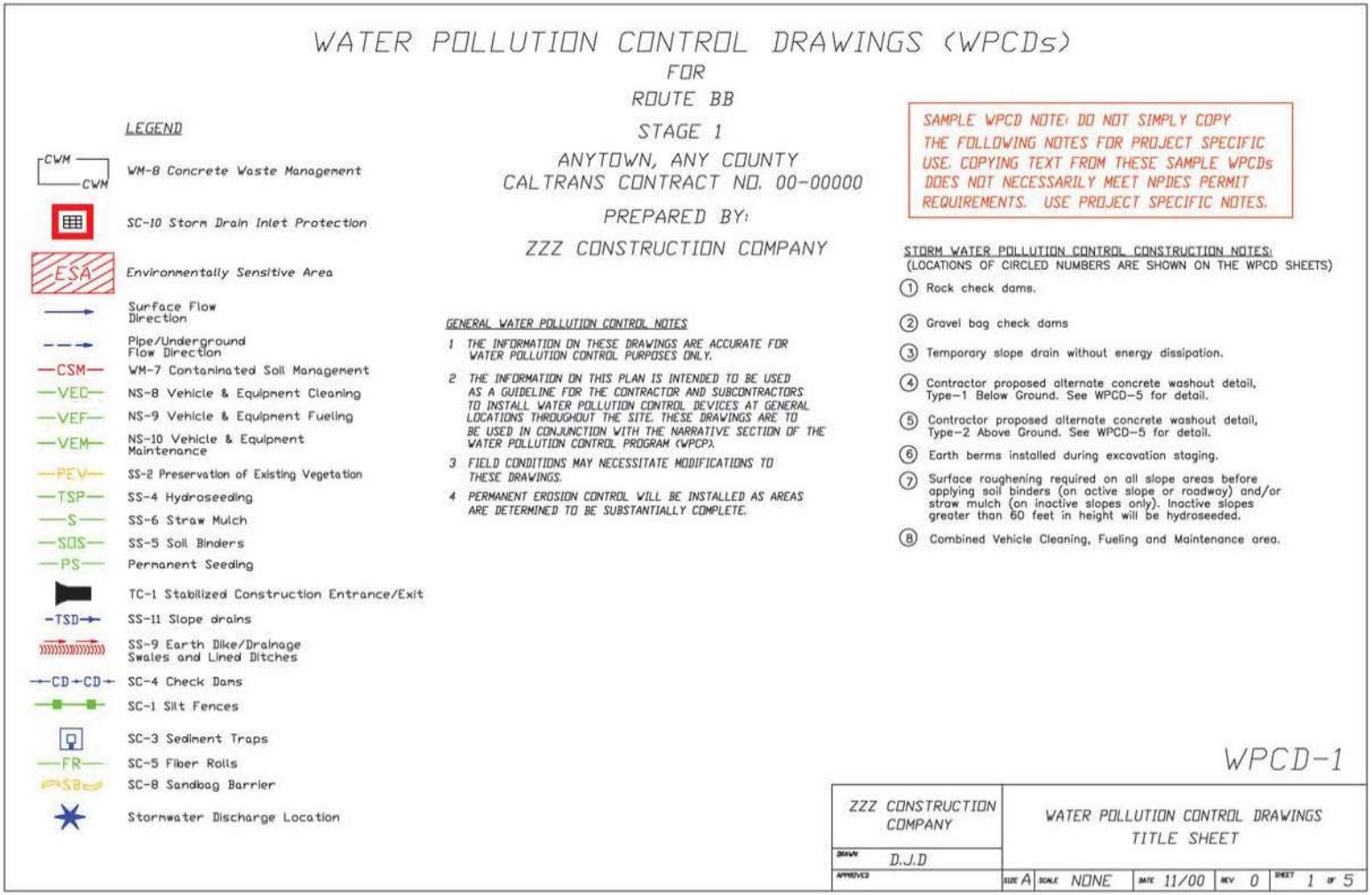

Figure 6-1. Attachment A WPCDs Example 1

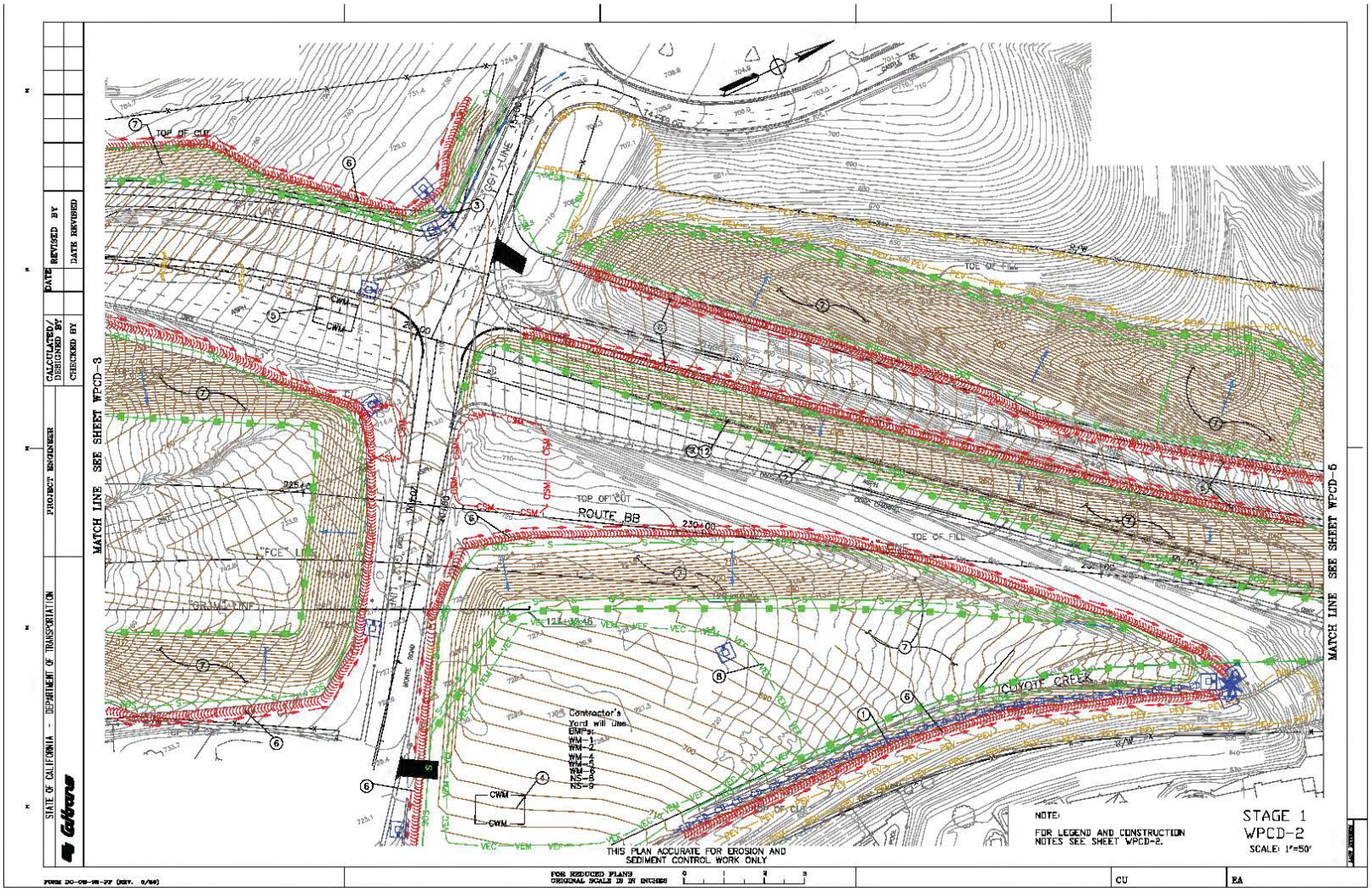

Figure 6-2. Attachment A WPCDs Example 2

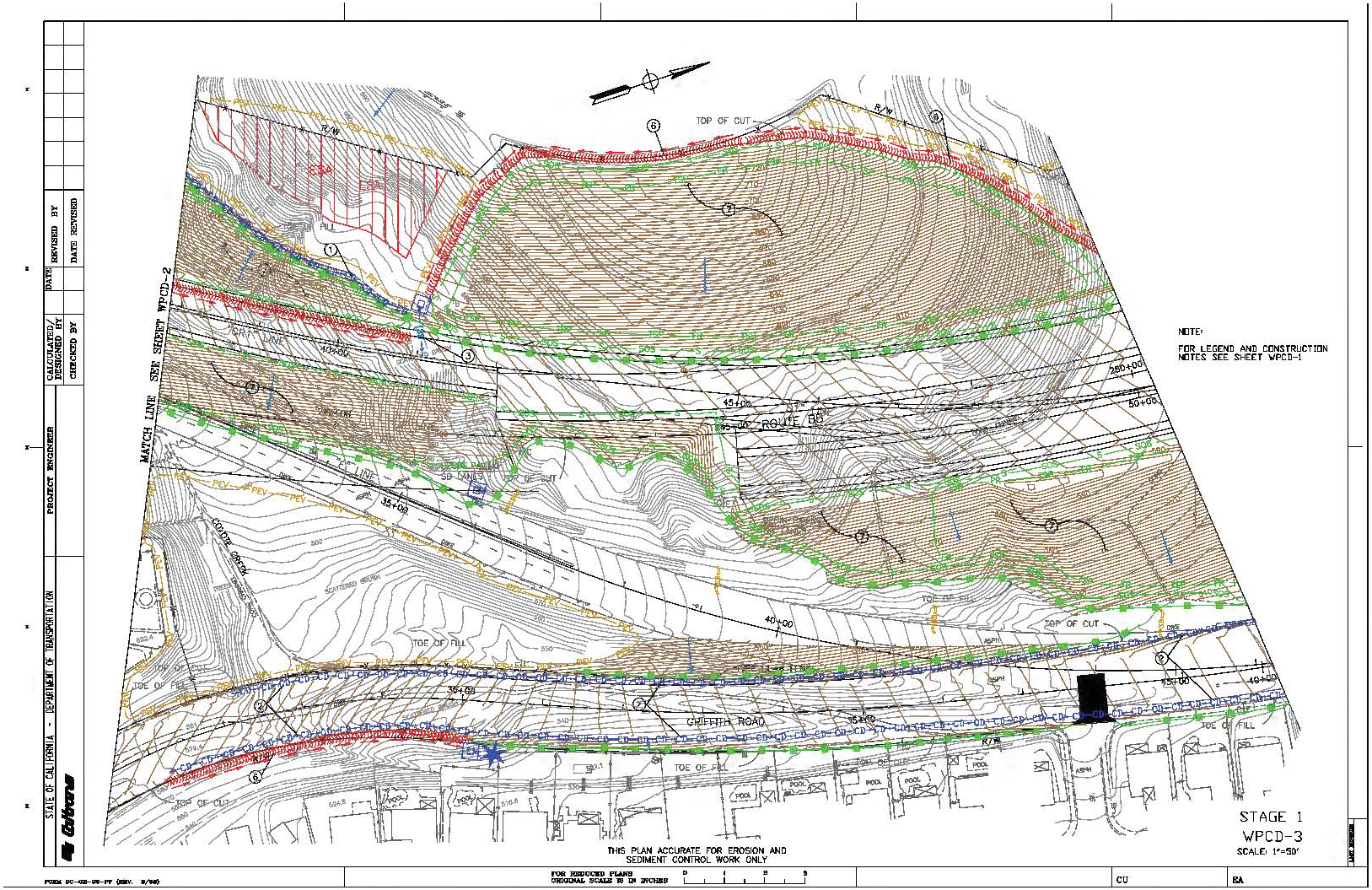

Figure 6-3. Attachment A WPCDs Example 3

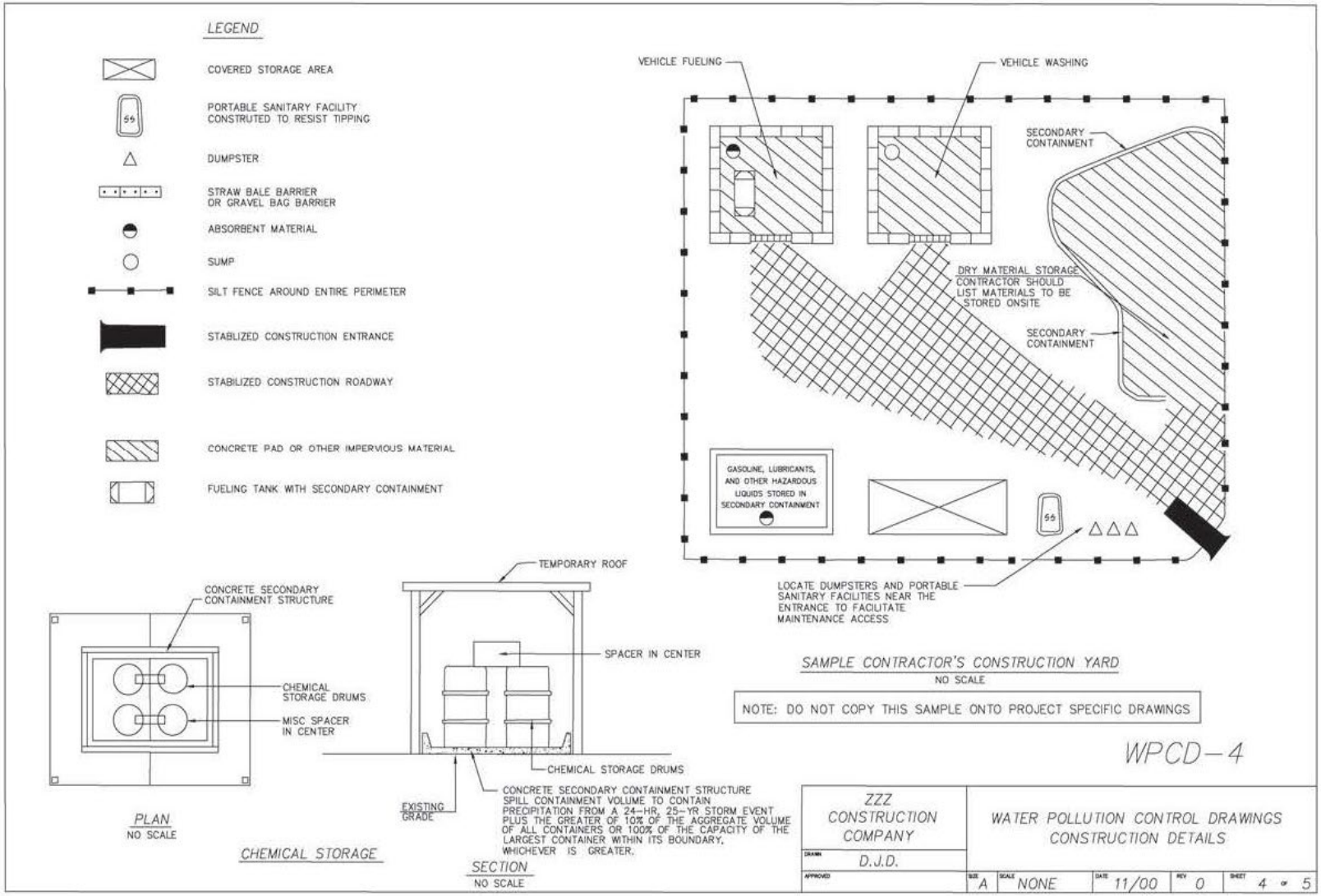

Figure 6-4. Attachment A WPCDs Example 4

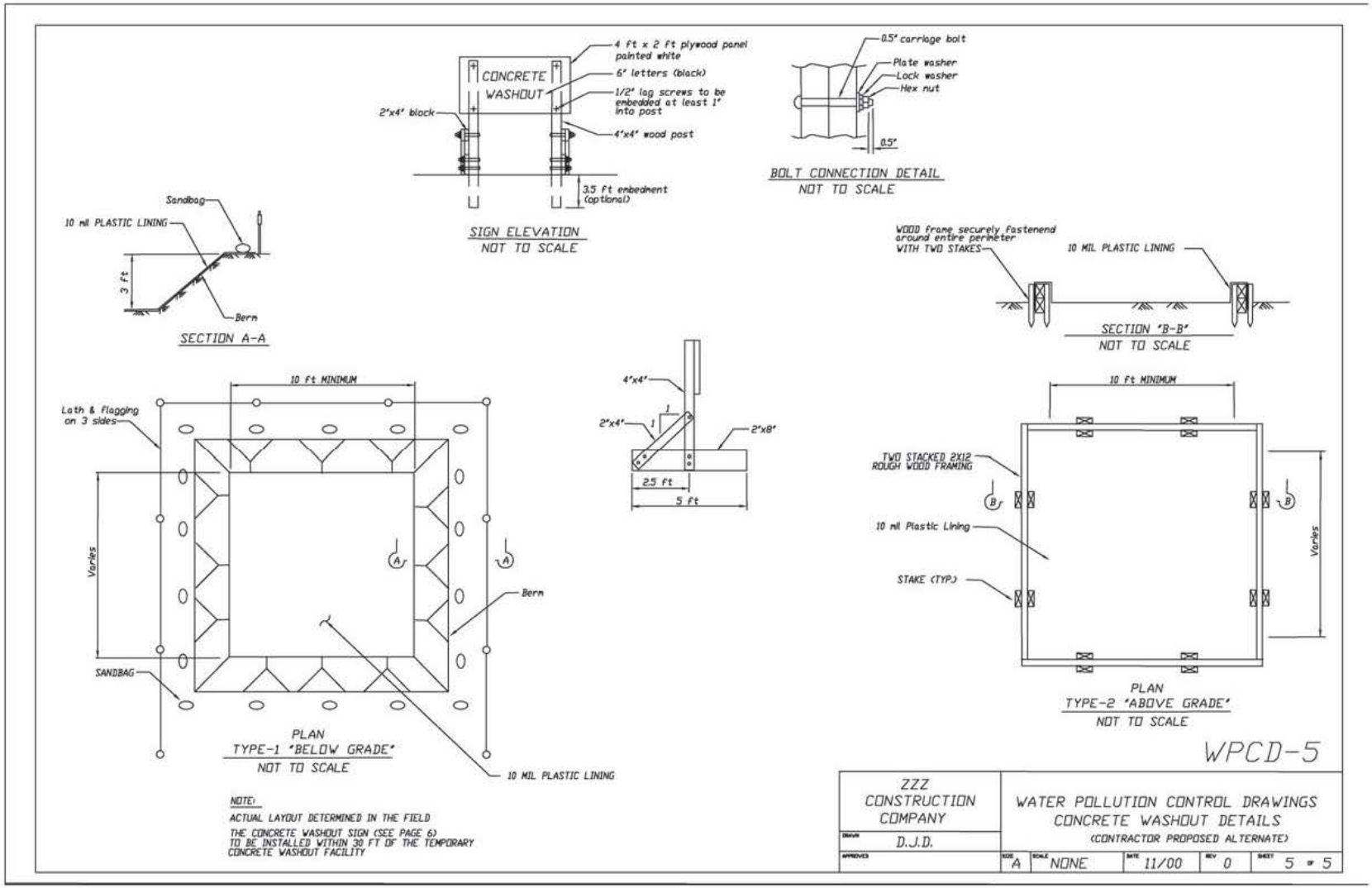

Figure 6-5. Attachment A WPCDs Example 5

6.2 Attachment B Water Pollution Control Schedule

The WPCS is the component of the project WPCP that shows the timeline for when BMPs will be installed so that the project is in compliance with Caltrans Standard Specifications and the contract special provisions. The WPCS provides field staff with the information necessary to plan for adequate materials and crews to install BMPs at the right time so that they are effective. The WPCS and WPCDs provide the necessary tools for a contractor to plan and implement BMPs to meet the requirements of the project WPCP.

The WPCS shall be a graphical project schedule. The project schedule may be used for the WPCS if the project schedule includes all WPCS requirements. The schedule shall contain an adequate level of detail to show major activities sequenced with implementation of construction site BMPs, including:

- Project start and finish dates, including each stage of the project
- WPCP review and approval
- Annual certifications
- Mobilization dates
- Mass clearing and grubbing/roadside clearing dates
- Major grading/excavation dates
- Special dates named in other permits such as Fish and Game and USACOE Permits
- Dates for submittal WPCP Amendments required by the contract specifications
- Implementation schedule dates by location for deployment of:
- Temporary soil stabilization BMPs
- Temporary sediment control BMPs
- Wind erosion control BMPs
- Tracking control BMPs
- Non-stormwater BMPs
- Waste management and materials pollution control BMPs
- Paving, saw-cutting, and any other pavement related operations
- Major planned stockpiling operations
- Dates for other significant long-term operations or activities that may cause non-stormwater discharges such as dewatering, grinding, etc.
- Final stabilization activities staged over time for each area of the project

Projects located in the Lake Tahoe, Truckee River, East Fork Carson River, or West Fork Carson River Hydrologic Units, and projects above 5,000 feet in elevations in the portions of Mono County or Inyo County within the Lahontan RWQCB are not allowed to perform removal of vegetation nor disturbance of existing ground surface conditions between October 15 of each year and May 1 of the following year; except when there is an emergency situation that threatens the public health or welfare, or when the project is granted a variance by the RWQCB Executive Officer.

A sample WPCS is shown on the next page.

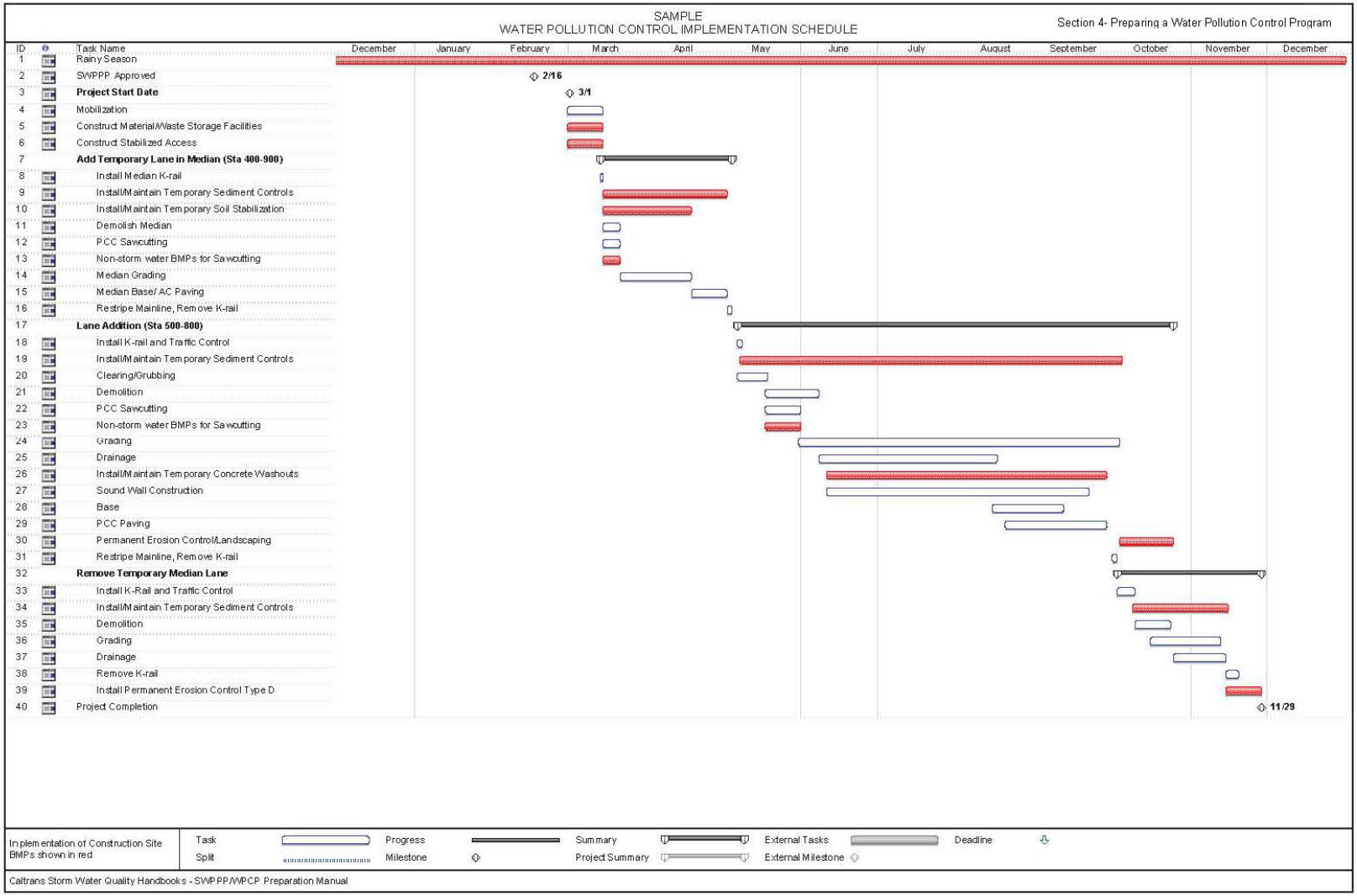

Figure 6-6. Attachment B Example WPCS

6.3 Attachment C WPCP Amendments

When changes in the authorized WPCP are required, the contractor's WPC Manager or alternate shall prepare changes to the WPCP. Amendments to the WPCP require the following:

- The WPC Manager shall certify WPCP amendments.
- The contractor shall certify the WPCP amendment and submit them to the RE for review and acceptance.
- The WPCP Amendment Certification and Acceptance form shall be used as the cover sheet for each amendment. A copy of the form is shown in WPCP Appendix C.
- All amendments shall be recorded in the WPCP amendment log in Attachment C.
- When an amendment is accepted by the RE, form CEM-2008 SWPPP/WPCP Amendment Certification and Acceptance shall be attached to the WPCP amendment and inserted into Attachment C.

All accepted WPCP amendments shall be shown on the WPCP Amendment Log in Attachment C. The amendment log shall include:

- Amendment number
- Date
- Brief description of the amendment
- Requested by
- Amendment approval date

Caltrans form CEM-2009 SWPPP/WPCP Amendment Log shall be used to record WPCP Amendments.

Caltrans Forms are located at:

http://www.dot.ca.gov/hq/construc/forms.htm

6.3.1 Attachment D Contractor Personnel Training Records

A summary of formal stormwater training for the project manager/superintendent, WPC Manager and alternate if one is designated, QSP and alternate if one is designated, stormwater inspector and alternate if one is designated, stormwater discharge sampler and tester and alternate if one is designated, employees responsible for BMP installation, maintenance and repair and all contractor employees must be included in Attachment D.

For subcontractors a summary of formal stormwater training for subcontractor foreman and all subcontractor employees must be included in Attachment D.

Caltrans Forms are located at:

http://www.dot.ca.gov/hq/construc/forms.htm

Section 7

WPCP Appendices

7.1 WPCP Appendices A through H

WPCP Appendices A through H are Caltrans CEM forms used to document and report information necessary for WPCP implementation. A copy of these documents must be included in the WPCP binder and available for contractors to download at: http://www.dot.ca.gov/hq/construc/stormwater/

For implementing the WPCP the contractor must use the most recent Caltrans forms available at: http://www.dot.ca.gov/hq/construc/forms.htm

The following Caltrans forms shall be included as appendices to the WPCP:

Appendix A	CEM-2008 SWPPP/WPCP Amendment Certification and Acceptance
Appendix B	CEM-2009 SWPPP/WPCP Amendment Log
Appendix C	CEM-2023 Stormwater Training Record
Appendix D	CEM-2024 Stormwater Training Log (Optional)
Appendix E	CEM-2034 Stormwater Best Management Status Report (Optional)
Appendix F	CEM-2030 Stormwater Site Inspection Report
Appendix G	CEM-2035 Stormwater Site Inspection Report Corrective Actions Summary or CEM-2035T Stormwater Corrective Actions Summary- Lake Tahoe Hydrologic Unit
Appendix H	CEM-2061 Notice of Discharge Report or CEM-2061T Notice of Discharge Report - Lake Tahoe Hydrologic Unit Stormwater Sample Field Test Report/Receiving Water Monitoring Report

7.2 Appendix A - CEM-2008 SWPPP/WPCP Amendment Log Form

- Required for projects with a WPCP to document accepted amendments.
- To be accepted by the RE.
- The most recent Caltrans forms are available at: http://www.dot.ca.gov/hq/construc/forms.htm

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

SWPPP/WPCP AMENDMENT CERTIFICATION AND ACCEPTANCE

CEM-2008 (REV 11/2013)

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM PROJECT IDENTIFIER NUMBER WDID NUMBER
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL ☐ Risk Level 1 ☐ N/A. WPCP ☐ Risk Level 2 ☐ N/A. Project resides in the Lake Tahoe Hydrologic Unit and is regulated under Order No. R6T-2011-0019, NPDES No. CAG616002. ☐ Risk Level 3

Storm Water Pollution Prevention Plan (SWPPP)/Water Pollution Control Program (WPCP)

Amendment Number _____

CONTRACTOR WATER POLLUTION CONTROL MANAGER SIGNATURE	DATE
CONTRACTOR WATER POLLUTION CONTROL MANAGER NAME	PHONE NUMBER

Contractor Certification of SWPPP or WPCP Amendment

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to 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 persons directly responsible for gathering the information, the information submitted, to the best of my knowledge and belief, is true, accurate, and complete. I am aware that significant penalties exist for submitting false information, including the possibility of fine and imprisonment for knowing violations.

CONTRACTOR SIGNATURE	DATE
CONTRACTOR NAME	PHONE NUMBER
TITLE	

Resident Engineer Acceptance of SWPPP or WPCP Amendment

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 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 directly responsible for gathering the information, the information submitted, to the best of my knowledge and belief, is true, accurate, and complete. I am aware that significant penalties exist for submitting false information, including the possibility of fine and imprisonment for knowing violations.

RESIDENT ENGINEER SIGNATURE	DATE OF AMENDMENT ACCEPTANCE
RESIDENT ENGINEER NAME	PHONE NUMBER

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STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

SWPPP/WPCP AMENDMENT CERTIFICATION AND ACCEPTANCE

CEM-2008 (REV 11/2013)

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER
	WDID NUMBER

Required for Private Entity Administered Projects

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 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 directly responsible for gathering the information, the information submitted, to the best of my knowledge and belief is true, accurate, and complete. I am aware that significant penalties exist for submitting false information, including the possibility of fine and imprisonment for knowing violations.

LEGALLY RESPONSIBLE PERSON SIGNATURE	DATE
LEGALLY RESPONSIBLE PERSON NAME	PHONE NUMBER
TITLE	

Required for Local Agency/Private Entity Administered Project

Caltrans Oversight Engineer's Concurrence With SWPPP/WPCP Amendment

I and personnel acting under my direction and supervision have reviewed this SWPPP/ WPCP and find that it meets the requirements set forth in the contract Special Provisions, Caltrans *Standard Specifications*, and the Caltrans SWPPP/WPCP Preparation Manual.

OVERSIGHT ENGINEER SIGNATURE	DATE OF AMENDMENT CONCURRENCE
OVERSIGHT ENGINEER NAME	PHONE NUMBER

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

SWPPP/WPCP AMENDMENT CERTIFICATION AND ACCEPTANCE

CEM-2008 (REV 11/2013)

Instructions

General Information

- The information on CEM-2008 is required for projects with either a Stormwater Pollution Prevention Plan (SWPPP) or a Water Pollution Control Program (WPCP) to document amendment acceptance and certification.
- SWPPP amendments must be certified by the approved signatory as identified in CEM-2006 or 2006T, "Legally Responsible Person Authorization of Approved Signatory," signed by the legally responsible person (LRP).
  1. For Caltrans, the LRP is the district director. The LRP may authorize the project resident engineer to be approved signatory.
  2. For a local agency, the LRP is either a principal executive officer or a ranking elected official. The local agency LRP may authorize the project resident engineer to be approved signatory.
  3. For a private entity performing work in the state right-of-way under an encroachment permit, the LRP must be one of the following:
     a. For a corporation, a responsible corporate officer.
     b. For a partnership or sole proprietorship, a general partner or the proprietor, respectively.

     The private entity LRP may not authorize an approved signatory.
  4. Attach a completed copy of CEM-2008 to each SWPPP or WPCP amendment, and include it in the SWPPP Attachment DD or the WPCP Attachment C.

Form

Contract Number/Co/Rte/PM
For local agency encroachment permit projects, write the encroachment permit number in the Contract Number field.

Project Identifier Number
Caltrans projects starting July 1, 2010, will have a Project Identifier Number. For projects without one, write "N/A" in the field.

WDID Number
For projects that have a Water Pollution Control Program enter "WPCP" in this field.

7.3 Appendix B - CEM-2009-SWPPP Amendment Log Form

- Required for projects with a WPCP to document authorized amendments.
- To be authorized by the RE.
- The most recent Caltrans forms are available at: http://www.dot.ca.gov/hq/construc/forms.htm

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

SWPPP/WPCP AMENDMENTS LOG

CEM-2009 (REV 11/2013)

Page 1 of 1

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM PROJECT IDENTIFIER NUMBER WDID NUMBER
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL ☐ Risk Level 1 ☐ N/A. WPCP ☐ Risk Level 2 ☐ N/A. Project resides in the Lake Tahoe Hydrologic Unit and is regulated under Order No. R6T-2011-0019, NPDES No. CAG616002. ☐ Risk Level 3

Amendments

Amendment Number	Date Prepared	Brief Description of Amendment	Requested by	Accepted Date

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STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

SWPPP/WPCP AMENDMENTS LOG

CEM-2009 (REV 11/2013)

Instructions

General Information

- Projects with either a Stormwater Pollution Prevention Plan (SWPPP) or Water Pollution Control Program (WPCP) require the information on this form to track amendments.
- Attach a completed copy of the form to each accepted SWPPP/WPCP amendment, and include in SWPPP Attachment DD or WPCP Attachment C.

Form

Contract Number/Co/Rte/PM
For local agency encroachment permit projects, write the encroachment permit number in the Contract Number field.

Project Identifier Number
Caltrans projects starting July 1, 2010, will have a project identifier number. For projects without one, write "N/A" in the field.

WDID Number
For projects with WPCP enter "WPCP" in this field.

When the resident engineer has accepted SWPPP or WPCP amendments, enter:

1. The amendment number.
2. The date the Water Pollution Control Manager signed form CEM-2008.
3. A brief description of the amendment.
4. The name and title of person who requested the amendment.
5. The date the resident engineer accepted form CEM-2008.

7.4 Appendix C - CEM-2023 Stormwater Training Record Form

- To be submitted to Caltrans to document compliance.
- To ensure review and record keeping of stormwater training.
- The most recent Caltrans forms are available at: http://www.dot.ca.gov/hq/construc/forms.htm

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

STORMWATER TRAINING RECORD

CEM-2023 (REV 11/2013)

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM PROJECT IDENTIFIER NUMBER WDID NUMBER
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL ☐ Risk Level 1 ☐ N/A. WPCP ☐ Risk Level 2 ☐ N/A. Project Resides in the Lake Tahoe Hydrologic Unit and is regulated under Order No. R6T-2011-0019, NPDES No. CAG616002. ☐ Risk Level 3
SUBMITTED BY CONTRACTOR (PRINT AND SIGN NAME)	DATE

Stormwater Training Record

Training Course Title or Specific Training Objective	Location	Date of Training
Stormwater Topics ☐ Temporary soil stabilization ☐ Tracking controls ☐ Non-stormwater management ☐ Waste management and materials pollution control ☐ Spill prevention and control ☐ BMPs required for work activities current week ☐ Stormwater pollution prevention plan ☐ Water pollution control program ☐ Temporary sediment control ☐ Wind erosion control ☐ Stormwater discharge sampling ☐ Pre-storm activities ☐ Permanent soil stabilization ☐ Initial project training	Instructor Name Instructor Title Instructor Phone Number Course Length (hours)	Training Audience ☐ General ☐ BMPs ☐ SWPPP

Attendee Roster

Name	Phone Number	Initials	Company Name

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STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

STORMWATER TRAINING RECORD

CEM-2023 (REV 11/2013)

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER
	WDID NUMBER

Attendee Roster (Continued)

Name	Phone Number	Initials	Company Name

Review and Record Keeping

Has training information been entered into the optional Stormwater Training Log (CEM-2024)? ☐ Yes ☐ No

I have reviewed this document and, 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.

Water Pollution Control Manager (name)	Date
Water Pollution Control Manager (signature)	

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

STORMWATER TRAINING RECORD

CEM-2023 (REV 11/2013)

Instructions

General Information

- Projects with either a Stormwater Pollution Prevention Plan (SWPPP) or Water Pollution Control Program (WPCP) require the information on this form to document stormwater training for contractor and subcontractor managers, supervisors, and employees. Include the form and required training documentation in the stormwater annual report for SWPPP projects.
- Use this form to document training for employees responsible for activities associated with Construction General Permit compliance and contract specifications. Use this form to document required weekly stormwater training.
- Provide this training record and an updated copy of CEM-2024 (CEM-2024 is an optional form used at the WPCM's discretion) "Stormwater Training Log," to the resident engineer (RE) within five days of the date of training.
- Attach additional copies of page 2 of this form if necessary to record all individuals attending this training.
- Stormwater training needs to be completed at the frequency stipulated in the project specifications and/or the SWPPP, whichever is more frequent.
- Names may be written or typed. Initials must be original. Originals are filed with RE as stipulated above.
- Attach copy of training material/topic with submittal to RE.

Form

- **Contract Number/Co/Rte/PM**
  For local agency encroachment permit projects write the encroachment permit number in the Contract Number field.
- **Project Identifier Number**
  Caltrans projects starting July 1, 2010, will have a Project Identifier Number (PIN). For projects without a PIN, write N/A in the field.
- **WDID Number**
  For projects with Water Pollution Control Program, enter "WPCP."
- **Attendee Roster**
  Enter employee name, contractor or subcontractor company name and employee phone number.
- **Training Audience**
  Enter one of the following responses:

  General—Training for individuals responsible for activities associated with compliance with the Construction General Permit.

  BMPs—Training for individuals responsible for BMP installation, inspection, maintenance, and repair.

  SWPPP—Training for individuals responsible for overseeing, revising, and amending the SWPPP.

7.5 Appendix D - CEM-2024 Stormwater Training Log Form

- To be submitted to Caltrans for annual compliance. The form is optional, the RE will determine its use on this contract.
- Required for projects with a WPCP.
- Documents stormwater training for contractors and subcontractor managers, supervisors, and employees.
- The most recent Caltrans forms are available at:
  http://www.dot.ca.gov/hq/construc/forms.htm

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

STORMWATER TRAINING LOG - OPTIONAL

CEM-2024 (REV 11/2013)

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM PROJECT IDENTIFIER NUMBER WDID NUMBER
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL ☐ Risk Level 1 ☐ N/A. WPCP ☐ Risk Level 2 ☐ N/A. Project resides in the Lake Tahoe Hydrologic Unit and is regulated under Order No. R6T-2011-0019, NPDES No. CAG616002. ☐ Risk Level 3
SUBMITTED BY CONTRACTOR (PRINT AND SIGN NAME)	DATE

STORMWATER TRAINING LOG

Date of Training	Training Audience	Number of Training Attendees	Stormwater Training Course Title or Topics Covered	Date Training Documentation (CEM-2023) Provided to Resident Engineer
	☐ General ☐ BMPs ☐ SWPPP			
	☐ General ☐ BMPs ☐ SWPPP			
	☐ General ☐ BMPs ☐ SWPPP			
	☐ General ☐ BMPs ☐ SWPPP			
	☐ General ☐ BMPs ☐ SWPPP			
	☐ General ☐ BMPs ☐ SWPPP ☐ General ☐ BMPs ☐ SWPPP			
	☐ General ☐ BMPs ☐ SWPPP			
	☐ General ☐ BMPs ☐ SWPPP			

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STORMWATER TRAINING LOG - OPTIONAL

CEM-2024 (REV 11/2013)

Instructions

General Information

- For projects with either a Stormwater Pollution Prevention Plan (SWPPP) or a Water Pollution Control Program (WPCP) the information shown on this form may be used to document stormwater training for contractor and subcontractor managers, supervisors, and employees. The stormwater annual report for SWPPP projects will include required training documentation and the information on this form, or in another form used at the discretion of the Water Pollution Control Manager (WPCM).
- If this form is used, provide an updated copy of CEM-2024 with attached training documentation to the resident engineer within five days of training, along with CEM-2023 and a copy of training materials and topic(s) covered.
- This form is optional, and provided as a management tool for the WPCM to assist in compiling and organizing information required of the annual report.

Form

Contract Number/Co/Rte/PM
For local agency encroachment permit projects, write the encroachment permit number in the Contract Number field.

Project Identifier Number
Caltrans projects starting July 1, 2010, will have a Project Identifier Number (PIN). For projects without a PIN, write N/A in the field.

WDID Number
For projects with Water Pollution Control Program enter "WPCP" in this field.

Training Audience
Check one of the following responses:

General—training for individuals responsible for activities associated with compliance with the General Construction Permit.
BMPs—training for individuals responsible for BMP installation, inspection, maintenance, and repair.
SWPPP—training for individuals responsible for overseeing revising and amending the SWPPP.

7.6 Appendix E - CEM-2034 Monthly Stormwater BMPs & Material Inventory Report

- This form is optional; the RE will determine whether it should be used for this contract.
- To be submitted monthly to the RE.
- Includes the status of all required locations of BMPs.
- The most recent Caltrans forms are available at: http://www.dot.ca.gov/hq/construc/forms.htm

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

MONTHLY STORMWATER BEST MANAGEMENT PRACTICES & MATERIALS INVENTORY REPORT - OPTIONAL

CEM-2034 (NEW 12/2013) Page 1 of 4

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM PROJECT IDENTIFIER NUMBER WDID NUMBER
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL ☐ Risk Level 1 ☐ N/A. WPCP ☐ Risk Level 2 ☐ N/A. Project resides in the Lake Tahoe Hydrologic Unit and is regulated under Order No. R6T-2011-0019, NPDES No. CAG616002 ☐ Risk Level 3

Water Pollution Control Manager (print name and sign)	Date
Submitted by contractor (print name and sign)	Date

Provide a monthly list of stored best management practices and materials on site.

Construction Phase	Site Information
☐ Highway construction ☐ Plant establishment ☐ Suspension of work (inactive site)	_____ Total project area (acres) _____ Total project disturbed soil area (acres) _____ Current phase disturbed soil area (acres) _____ Current phase inactive disturbed soil (acres)

Stormwater Best Management Practices and Materials on Site

	Location where stored: _____ BMP Name	BMP ID	Quantity on hand	Unit	Estimated quantity needed if rain event predicted, spill occurs or BMP fails
1					

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STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

MONTHLY STORMWATER BEST MANAGEMENT PRACTICES & MATERIALS INVENTORY REPORT - OPTIONAL

CEM-2034 (NEW 12/2013)

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM PROJECT IDENTIFIER NUMBER WDID NUMBER

Stormwater Best Management Practices and Materials on Site

	Location where stored: _____ BMP Name	BMP ID	Quantity on hand	Unit	Estimated quantity needed if rain event predicted, spill occurs or BMP fails
2					
	Location where stored: _____ BMP Name	BMP ID	Quantity on hand	Unit	Estimated quantity needed if rain event predicted, spill occurs or BMP fails
3					

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

MONTHLY STORMWATER BEST MANAGEMENT PRACTICES & MATERIALS INVENTORY REPORT - OPTIONAL

CEM-2034 (NEW 12/2013)

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM PROJECT IDENTIFIER NUMBER WDID NUMBER

Stormwater Best Management Practices and Materials on Site

	Location where stored: _____ BMP Name	BMP ID	Quantity on hand	Unit	Estimated quantity needed if rain event predicted, spill occurs or BMP fails

	Location where stored: _____ BMP Name	BMP ID	Quantity on hand	Unit	Estimated quantity needed if rain event predicted, spill occurs or BMP fails

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

MONTHLY STORMWATER BEST MANAGEMENT PRACTICES & MATERIALS INVENTORY REPORT - OPTIONAL

CEM-2034 (NEW 12/2013) Page 4 of 4

Instructions

General Information

- The Water Pollution Control Manager must oversee preparation of this form and submit a copy to the resident engineer every month.
- Attach additional copies of page 2 and page 3 of this form to include all required locations.
- Insert consecutive numbers for each location when using page 2 or page 3 of this form

BMP Name	BMP ID
Temporary Soil Stabilization	
Preservation of existing vegetation	SS-02
Hydraulic mulch	SS-03
Hydroseeding	SS-04
Soil binders	SS-05
Straw mulch	SS-06
Geotextiles, mats, plastic covers, and lined ditches	SS-07
Wood mulching	SS-08
Earth dikes, drainage swales and lined ditches	SS-09
Outlet protection and velocity dissipation devices	SS-10
Slope drains	SS-11
Streambank stabilization	SS-12
Temporary Sediment Control	
Silt fence	SC-01
Sediment or distilling basin	SC-02
Sediment trap	SC-03
Checkdams	SC-04
Fiber rolls	SC-05
Gravel bag berm	SC-06
Sandbag barrier	SC-08
Straw bale barrier	SC-09
Storm drain inlet protection	SC-10
Wind Erosion Control	
Wind erosion control	WE-01
Tracking Controls	
Stabilized construction entrance and exit	TC-01
Stabilized construction roadway	TC-02
Entrance and exit tire wash	TC-03
Street sweeping	TC-04

BMP Name	BMP ID
Non-Stormwater Management	
Water conservation practices	NS-01
Dewatering operations	NS-02
Paving and grinding operations	NS-03
Temporary stream crossing	NS-04
Clear water diversion	NS-05
Illegal connection or discharge detection and reporting	NS-06
Potable water and irrigation	NS-07
Vehicle and equipment cleaning	NS-08
Vehicle and equipment fueling	NS-09
Vehicle and equipment maintenance	NS-10
Pile-driving operations	NS-11
Concrete curing	NS-12
Material and equipment use over water	NS-13
Concrete finishing	NS-14
Structure demolition or removal over or adjacent to water	NS-15
Waste Management and Pollution Control	
Material delivery and storage	WM-01
Material use	WM-02
Stockpile management	WM-03
Spill prevention and control	WM-04
Solid waste management	WM-05
Hazardous waste management	WM-06
Contaminated soil management	WM-07
Concrete waste management	WM-08
Sanitary or septic waste management	WM-09
Liquid waste management	WM-10

7.7 Appendix F - CEM-2030 Stormwater Site Inspection Report

- All areas of a jobsite to be reported and inspected.
- Complete BMP repair or design changes within 72 hours of identifications.
- To be submitted to the RE within 24 hours of inspection.
- The most recent Caltrans forms are available at: http://www.dot.ca.gov/hq/construc/forms.htm

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

STORMWATER SITE INSPECTION REPORT

CEM-2030 (REV 12/2019)

Page 1 of 9

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM PROJECT IDENTIFIER NUMBER WDID NUMBER
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL ☐ Risk Level 1 ☐ N/A. WPCP ☐ Risk Level 2 ☐ N/A. Project resides in The Lake Tahoe Hydrologic Unit and is regulated under Order No. R6T-2016-0010, NPDES No. CAG616002 ☐ Risk Level 3
SUBMITTED BY CONTRACTOR (PRINT AND SIGN NAME)	DATE
WATER POLLUTION CONTROL MANAGER NAME AND COMPANY NAME	PHONE NUMBER EMERGENCY (24/7) PHONE NUMBER

GENERAL INFORMATION

INSPECTOR'S NAME	Accompanied by Caltrans staff? ☐ Yes ☐ No If Yes, Name/Initials _____	DATE OF INSPECTION

Weather Condition	Precipitation Condition		Wind Condition
☐ Clear	☐ None	☐ Heavy rain	☐ None
☐ Partly cloudy	☐ Misty	☐ Hail	☐ Less than 5 mph
☐ Cloudy	☐ Light rain	☐ Snow	☐ Greater than 5 mph
	☐ Rain		

Construction Phase	Site Information
☐ Highway construction	Total project area _____ acres
☐ Plant establishment	Total project disturbed soil area _____ acres
☐ Suspension of work (inactive site)	Current phase disturbed soil area _____ acres
	Current phase inactive disturbed soil _____ acres

Inspection Type *Check appropriate box(es)*	**Storm Information**	
☐ Weekly ☐ Annual Certification of Compliance ☐ Quarterly non-stormwater	Time elapsed since last storm _____ days	Precipitation amount from last storm _____ inches
☐ Pre-storm	Time storm is expected _____ (time) _____ (date)	Expected precipitation amount _____ inches
☐ During storm event	Time elapsed since storm began _____ hours-minutes	Precipitation amount from storm recorded from site rain gauge _____ inches
☐ Post storm	Time elapsed since storm _____ hours-minutes	Precipitation amount from storm recorded from site rain gauge _____ inches

Date	Daily Site Inspection of Best Management Practices (BMP) List Daily inspections for previous calendar week. Do not include weekly inspection.	Daily inspection performed by	Any corrective actions identified as completed or new?		If yes, were the actions added or verified on CEM-2035, as appropriate?		Date shown on corrective action form
			YES	NO	YES	NO	
			☐	☐	☐	☐	
			☐	☐	☐	☐	
			☐	☐	☐	☐	
			☐	☐	☐	☐	
			☐	☐	☐	☐	

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STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

STORMWATER SITE INSPECTION REPORT

CEM-2030 (REV 12/2019)

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PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER
	WDID NUMBER

Site Inspection of Best Management Practices

If this form will be completed by hand in the field, click on "Show Entire Form" button at the top of page one to expand the sections, then print the form to take to the field. If the inspection form does not contain enough lines for all locations, use the "Add Item" button so that all BMP locations are inspected and reported.

Preservation of Existing Vegetation ☒ Yes ☐ No	Right location?		Properly installed?		Maintenance or repair necessary?		Photos?	Comments and Required Actions
	Yes	No	Yes	No	Yes	No	Yes	
Location 1								
Location 2								
Location 3								

Disturbed Soil Area (DSA) Management ☒ Yes ☐ No List all potential DSAs by location	Has area been disturbed? If no, stop here.		Date DSA first disturbed?	Is the DSA inactive and listed as a location on both temporary soil stabilization and temporary linear sediment barriers? If yes, stop here.		Is there a storm event forecasted? If yes, stop here and take action.		Are there construction activities currently in progress within the DSA? If yes, stop here.		If no to previous question, what is the last day construction activities were in progress?	How many days has the DSA been inactive? If more then 14 days, take action.
	Yes	No	Date	Yes	No	Yes	No	Yes	No	Date	Days
Location 1											
Location 2											

Notes:

1. If it has been 14 days since a DSA has had active construction activities, the DSA is inactive and must be reported as a location on temporary soil stabilization and temporary linear sediment barriers.
2. DSAs must have erosion control and have temporary linear sediment barriers installed prior to a storm event.

Location Number	Comments / Corrective Actions	Action No.
1		
2		

Temporary Soil Stabilization ☒ Yes ☐ No	Inactive areas covered?		100% coverage of required areas?		Stabilized areas free from visible erosion?		Photos?	Comments and Required Actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location 1									
Location 2									
Location 3									

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STORMWATER SITE INSPECTION REPORT

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PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER
	WDID NUMBER

Site Inspection of Best Management Practices, continued

For project specific BMPs, insert the BMP name and additional inspection requirements below.

Temporary Linear Sediment Barriers ☒ Yes ☐ No	Right location?		Properly installed or cross barriers installed?		Maintenance performed when 1/3 height or repair needed?		Photos?	Comments and Required Actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location 1									
Location 2									
Location 3									

Storm Drain Inlet Protection ☒ Yes ☐ No	All inlets protected?		Properly installed?		Maintenance or repair needed?		Photos?	Comments and Required Actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location 1									
Location 2									
Location 3									

Stockpile Management ☒ Yes ☐ No	Date stockpile created	Is the stockpile listed as a location on stockpile management inactive stockpiles? If yes, stop here.		Is there a storm event forecasted? If yes, stop here and take action.		Is stockpile being actively used? If yes, stop here.		If no to previous question, what is the last day stockpile was actively used?	How long since stockpile actively used?	Has it been 3 days since the stockpile has been actively used? If yes, take action.	
	Date	Yes	No	Yes	No	Yes	No	Date	Days	Yes	No
Location 1											
Location 2											

Notes:

1. If it has been 3 days (72 hours) since a stockpile has been active then the stockpile is inactive and must be reported as a location on stockpile management inactive stockpiles.
2. Stockpiles must be covered and have perimeter control installed prior to a storm event.

Location Number	Comments / Corrective Actions	Photos? Yes	Action No.
1			
2			

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STORMWATER SITE INSPECTION REPORT

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PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER
	WDID NUMBER

Inactive Stockpile Management ☒ Yes ☐ No	Type of Material or Waste	Is the stockpile properly located?		Is the stockpile covered?		Does the stockpile have a perimeter control?		Does the stockpile need maintenance or repair?	
		Yes	No	Yes	No	Yes	No	Yes	No
Location 1									
Location 2									

Location Number	Comments / Corrective Actions	Photos? Yes	Action No.
1			
2			

Sediment and Desilting Basins ☒ Yes ☐ No	Are basin inlets, outlets, and spillways in working order?		Is water contained in basin?		Is maintenance needed to provide required retention or detention?		Photos?	Comments and Required Actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location 1									
Location 2									
Location 3									

Tracking Controls ☒ Yes ☐ No	Do all entrances and exits have tracking controls?		Is pavement free from visible sediment tracking?		Does sediment need to be removed from rock or ribbed plates?		Is daily sweeping done?		Photos?	Comments and Required Actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes	No	Yes		
Location 1											
Location 2											
Location 3											

Wind Erosion Control ☒ Yes ☐ No	Water trucks on-site?		Visible dust?		Photos?	Comments and Required Actions	Action No.
	Yes	No	Yes	No	Yes		
Location 1							
Location 2							
Location 3							

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PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER
	WDID NUMBER

Dewatering Operations ☒ Yes ☐ No	Dewatering currently active?		Dewatering conforms with RWQCB permit?		Dewatering discharge within discharge specified limitations?		Photos?	Comments and Required Actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location 1									
Location 2									
Location 3									

Temporary Stream Crossing ☒ Yes ☐ No	Constructed as shown on the plan?		Conforms to 404 permit and 1601 agreement requirements?		Maintenance or repair required?		Photos?	Comments and Required Actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location 1									
Location 2									
Location 3									

Material Storage ☒ Yes ☐ No	Located away from drainage courses and water courses?		Areas protected from run on and runoff?		Bagged and boxed materials stored on pallets?		Areas reasonably clean and free of spills, leaks, and other material?		Is material inventory up to date?		Liquid materials in secondary containment?		Photos?
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
Location 1													
Location 2													
Location 3													

	Comments and Required Actions	Action No.
Location 1		
Location 2		
Location 3		

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

STORMWATER SITE INSPECTION REPORT

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PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER
	WDID NUMBER

Waste Management Sanitation Facilities ☒ Yes ☐ No	Located away from drainage courses and water courses?		Secured to ground or foundation?		Clean and has adequate capacity?		Ground checked for any spills or leaks?		Any spills or leaks found?		Photos?
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
Location 1											
Location 2											
Location 3											

Location Number	Comments / Corrective Actions	Action No.
1		
2		
3		

Project-specific BMP ☒ Yes ☐ No	Properly located?		Properly installed?		Maintenance or repair needed?		Photos?	Comments and Required Actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location 1									
Location 2									
Location 3									

Project-specific BMP ☒ Yes ☐ No	Properly located?		Properly installed?		Maintenance or repair needed?						Photos?
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
Location 1											
Location 2											
Location 3											

	Comments and Required Actions	Action No.
Location 1		
Location 2		
Location 3		

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

STORMWATER SITE INSPECTION REPORT

CEM-2030 (REV 12/2019)

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PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER
	WDID NUMBER

Site Inspection Report General Comments

Are the BMPs installed as required by the Stormwater Pollution Prevention Plan for the phase of construction?

☐ Yes ☐ No

Does the SWPPP need to be amended?

☐ Yes ☐ No

Does the SWPPP currently reflect the current site conditions and contractor operations?

☐ Yes ☐ No

Is hazardous waste stored on the jobsite?

☐ Yes ☐ No

Are there water pollution control concerns on the project site not addressed by the comments and required actions shown above for BMPs, based on the field review of the jobsite?

☐ Yes ☐ No *If yes, provide details, comments, and required actions below for each location.*

Location	Water Pollution Control Concern	Comments and Required Actions	Action No.

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

STORMWATER SITE INSPECTION REPORT

CEM-2030 (REV 12/2019)

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PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER WDID NUMBER

Stormwater Inspection Report Certification

I certify under penalty of law that this Stormwater Inspection Report was performed in accordance with the General Permit. The information contained in this inspection report was gathered from a field site inspection. I am aware that Section 309 (c)(4) of the Clean Water Act provides for significant penalties, including fines and imprisonment for knowingly submitting a false material statement, representation, or certification.

Stormwater Inspector (Name)	Date Report Completed
Stormwater Inspector (Signature)	

I certify under penalty of law that this Stormwater Inspection Report was performed in accordance with the General Permit by me or under my direction or supervision. The information contained in this inspection report was gathered and evaluated by qualified personnel prior to submittal. Based on my review of the information and inquiry of those who gathered and evaluated the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

I am aware that Section 309 (c)(4) of the Clean Water Act provides for significant penalties, including fines and imprisonment for knowingly submitting a false material statement, representation, or certification.

Water Pollution Control Manager (Name)	Date
Water Pollution Control Manager (Signature)	

Stormwater Inspection Report Acceptance

If hazardous waste is stored on the jobsite, the resident engineer should notify the district hazardous waste coordinator.

Was the District Hazardous Waste Coordinator notified?

- ☐ N/A, no hazardous waste stored on the jobsite
- ☐ YES, Date _____ Time _____
- ☐ NO

Accepted by Resident Engineer (Print Name)	Date
Resident Engineer (Signature)	

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION
STORMWATER SITE INSPECTION REPORT
CEM-2030 (REV 12/2019)

Page 9 of 9

Instructions

General Information

- Construction General Permit attachments C, D, and E, Section G.5. require the information on this form.
- If the inspection form does not contain enough lines to report all locations on a jobsite, click on the "Add Item" button so that all locations are inspected and reported.
- Obtain forecasted precipitation information from the National Weather Service Forecast Office website, https://www.weather.gov/forecastmaps.
- Weather information should be the best estimate of the beginning of the storm event, duration of the event, and time elapsed since the last storm.
- Rainfall amounts should be recorded from the project site rain gauge.
- "Daily Site Inspection of Best Management Practices" section is to be filled out by the water pollution control manager.

Storm Visual Inspections

- For non-visible pollutant inspections, report on all locations shown in the Stormwater Pollution Prevention Plan.

Required Actions

- All corrective actions identified in this report must also be recorded on Form CEM-2035, "Stormwater Corrective Actions Summary."
- Locations identified where BMPs are failing or have other shortcomings require implementation of repairs or design changes within 72 hours of identification, and BMP repairs or other changes must be completed as soon as possible.

7.7.1 CEM-2031T – Daily Stormwater Site Inspection Report

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

DAILY STORMWATER SITE INSPECTION REPORT - LAKE TAHOE HYDROLOGIC UNIT

CEM-2031T (REV 07/2016)

Page 1 of 4

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER
	WDID NUMBER
CONTRACTOR NAME AND ADDRESS	PROJECT RESIDES IN THE LAKE TAHOE HYDROLOGIC UNIT AND IS REGULATED UNDER ORDER NO. R6T-2011-0019, NPDES NO. CAG616002.
SUBMITTED BY CONTRACTOR (PRINT AND SIGN NAME)	DATE
WATER POLLUTION CONTROL MANAGER NAME AND COMPANY NAME	PHONE NUMBER
	EMERGENCY (24/7) PHONE NUMBER

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

DAILY STORMWATER SITE INSPECTION REPORT - LAKE TAHOE HYDROLOGIC UNIT

CEM-2031T (REV 07/2016)

CALTRANS CONSTRUCTION INSPECTION REPORT *WPC DAILY INSPECTION REPORT*	PROJECT NAME HWY. NO. AND POST MILE CALTRANS CONTRACT NO.

DATE:	CEM-2031T	DAY:	M	T	W	TH	F	SA	SU
SHIFT OR TIME OF INSPECTION		WEATHER							

Blank = No Inspection NC = Needs Correction, See Comments OK = Meets Standards N/A = Not Applicable

1) SEDIMENT CONTROLS: Rock bags, fiber rolls, and silt fences, etc. placed and functioning properly?	
2) SOIL STABILIZATION: Temp cover, hydraulic mulch, wood chips, soil binder, etc.?	
3) WIND EROSION: What is forecasted wind speeds? Is there visible dust migration observed? Are BMPs needed?	
4) TRACKING CONTROL: Are stabilized entrance/exits effective? Is sweeping/vacuuming needed?	
5) VEHICLE FUELING & MAINTENANCE; Spill kits, leaks, spills, labeled container for spend absorbents/oily rags disposal?	
6) PAVING, SAWCUT, GRINDING OPERATIONS: Are DI's protected? Is drip protection implemented? Proper waste disposal?	
7) MATERIAL STORAGE & USE: Are liquids staged in temporary secondary containment? Are powdered/granular on pallets?	
8) STOCKPILE: Are material stockpiles properly covered and are temporary soil stockpile(s) or construction material in approved areas? 9) DISCHARGE POINTS; Are they free of significant erosion, or sediment transport and free of noticeable pollutants?	
10) SEDIMENT CONTROLS; Rock bags, fiber rolls, and silt fences, etc. placed and functioning properly?	
11) CONCRETE WASTE & WASHOUTS: Are PCC washouts built per Standard Specifications?	
12) SOLID WASTE MANAGEMENT: Are containers water tight with covers?	
13) DI PROTECTION: Is DI protection installed per Standard Plans and Specs? Is maintenance needed?	
14) MISC. BMPs SPECIFIC TO THE PROJECT: Indicate specific BMPs.	
15) CLEAR WATER DIVERSION: Are operations being observed? Is any maintenance or sampling needed?	
16) DEWATERING/ATS: Are operation being observed? Is any maintenance or sampling needed?	

Item Number	Locations and Comments	Date Completed	Initials

INSPECTOR'S SIGNATURE TITLE

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

DAILY STORMWATER SITE INSPECTION REPORT - LAKE TAHOE HYDROLOGIC UNIT

CEM-2031T (REV 07/2016)

Daily Stormwater Inspection Report Certification

I certify under penalty of law that this Stormwater Inspection Report was completed in accordance with the General Permit. The information contained in this inspection report was gathered form a field site inspection. I am aware that Section 309 (c)(4) of the Clean Water Act (CWA) provides for significant penalties, including fines and imprisonment for knowingly submitting false material statement, representation or certification.

STORMWATER INSPECTOR NAME	DATE REPORT COMPLETED
STORMWATER INSPECTOR SIGNATURE	

I certify under penalty of law that this Stormwater Inspection Report was performed in accordance with the General Permit by me or under my direction or supervision. The information contained in this inspection report was gathered and evaluated by qualified personnel before submittal. Based on my review of the information and inquiry of those who gathered and evaluated the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.
I am aware that Section 309 (c)(4) of the Clean Water Act (CWA) provides for significant penalties, including fines and imprisonment for knowingly submitting false material statement, representation, or certification.

WATER POLLUTION CONTROL MANAGER NAME	DATE
WATER POLLUTION CONTROL MANAGER SIGNATURE	

Daily Stormwater Inspection Report Acceptance

ACCEPTED BY RESIDENT ENGINEER (NAME)	DATE
RESIDENT ENGINEER SIGNATURE	

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION
DAILY STORMWATER SITE INSPECTION REPORT - LAKE TAHOE HYDROLOGIC UNIT
CEM-2031T (REV 07/2016)
Page 4 of 4

General Information

- If the inspection form does not contain enough lines to report all locations on a jobsite, attach additional copies of Page 2 of the form to report that all locations have been inspected.
- Required actions reported on this form must also be reported on form CEM-2035, "Stormwater Site Inspection Report Corrective Actions Summary."
- Locations identified where BMPs are failing or have other shortcomings require repairs or design changes within 72 hours of identification and complete BMP repairs or other changes as soon as possible.

Form

- Contract/Co/Rte/PM
  For local agency encroachment permit projects, write the encroachment permit number in the Contract Number field.
- Project Identifier Number
  Caltrans projects starting July 1, 2010, will have a Project Identifier Number. For projects without a project identifier number, write N/A in the field.
- WDID Number
  For projects with Water Pollution Control Program, enter "WPCP" in this field.

7.8 Appendix G - CEM-2035 Stormwater Corrective Actions Summary

- Verifies stormwater site inspection corrective actions identified in a site inspection report were completed.
- Corrective actions must begin within 72 hours of the site inspection or before a rain event.
- The most recent Caltrans forms are available at: http://www.dot.ca.gov/hq/construc/forms.htm

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

STORMWATER CORRECTIVE ACTIONS SUMMARY

CEM-2035 (REV 02/2018)

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTACT NUMBER/CO/RTE/PM PROJECT IDENTIFICATION NUMBER WDID NUMBER
CONTRACTOR NAME AND ADDRESS	SWPPP PROJECT SITE RISK LEVEL ☐ Risk Level 1 ☐ N/A. WPCP ☐ Risk Level 2 ☐ N/A. Project resides in the Lake Tahoe Hydrologic Unit and is regulated under Order No. R6T-2011-0019, NPDES No.CAG61002 ☐ Risk Level 3
Submitted by contractor (print and sign name)	Date

Implement required actions identified in this Stormwater Corrective Actions Summary as soon as possible, but actions must begin within 72 hours of the site inspection, or be completed before the next predicted rain event, whichever is sooner.

Corrective Action Number	Verification of Stormwater Site Inspection Corrective Action	Date Corrective Actions Identified
	BMP Type	Location
	Required Action	Verified by (print name and title)
	Date Completed	Verified by (signature)
	Comments	
	BMP Type	Location
	Required Action	Verified by (print name and title)
	Date Completed	Verified by (signature)
	Comments	
	BMP Type	Location
	Required Action	Verified by (print name and title)
	Date Completed	Verified by (signature)
	Comments	
	BMP Type	Location
	Required Action	Verified by (print name and title)
	Date Completed	Verified by (signature)
	Comments	

Add Page Delete Page

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STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

STORMWATER CORRECTIVE ACTIONS SUMMARY

CEM-2035 (REV 02/2018)

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTACT NUMBER/CO/RTE/PM PROJECT IDENTIFICATION NUMBER WDID NUMBER

Stormwater Site Inspection Report Corrective Action Summary Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the people who manage the system or are directly responsible for gathering the information, the information submitted is true, accurate, and complete to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of knowing violations.

Water Pollution Control Manager (name)	Date
Water Pollution Control Manager (signature)	

Stormwater Site Inspection Report Corrective Action Summary Acceptance

Resident Engineer (name)	Date
Resident Engineer (signature)	

Instructions

General Information

- If the summary form does not have enough lines to report all required actions, use additional copies of this form's page 1 to report all required corrective actions from an Inspection form.
- On page 1 of this form and additional copies of page 1, insert consecutive numbers for each required corrective action.

Required Actions

- Identified locations—where BMPs are failing or have other shortcomings—required repairs or design changes within 72 hours of identification and complete BMP repairs or other changes as soon as possible, or before the next predicted rain event, whichever is sooner, per the Lake Tahoe Hydrologic Unit Permit.
- Daily inspection required for waste containers (covered at end of shift), tracking, and other per project specifications.

7.8.1 CEM 2037T – Stormwater Corrective Actions Summary

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

STORMWATER CORRECTIVE ACTIONS SUMMARY - LAKE TAHOE HYDROLOGIC UNIT

CEM-2035T (REV 02/2018) Page 1 of 2

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACTOR NAME AND ADDRESS	CONTRACT NUMBER/CO/RTE/PM PROJECT INDENTIFICATION NUMBER
SUBMITTED BY CONTRACTOR (print and sign name)	DATE	WDID NUMBER

Implement required actions, identified in this Stormwater Corrective Actions Summary as soon as possible, but required action must be completed within 72 hours of the site inspection, or be completed before the next predicted rain event, whichever is sooner.

Week Ending:

Location	Best Management Practice Type	Required Action/Comments	Date Identified	Date Completed	Water Pollution Control Manager/ Inspector Initials	Caltrans Resident Engineer/Inspector Initials

Water Pollution Control Manager Signature	Date	Caltrans Resident Engineer Signature	Date

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STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

STORMWATER CORRECTIVE ACTIONS SUMMARY - LAKE TAHOE HYDROLOGIC UNIT

CEM-2035T (REV 08/2017)

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT INDENTIFICATION NUMBER
	WDID NUMBER

Stormwater Site Inspection Report Corrective Action Summary Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the people who manage the system or are directly responsible for gathering the information, the information submitted is true, accurate, and complete to the best of my knowledge and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of knowing violations.

Water Pollution Control Manager (print name):	Date:
Water Pollution Control Manager (signature):	

Stormwater Site Inspection Report Corrective Action Summary Acceptance

Resident Engineer (print name):	Date:
Resident Engineer (signature):	

Instructions

General Information

- If the summary form does not have enough lines to report all required actions, use additional copies of this form's page 1 to report all required corrective actions from an inspection form.
- On page 1 of this form and additional copies of page 1, insert consecutive numbers for each required corrective action.

Required Actions

- Identified locations—where BMPs are failing or have other shortcomings—required repairs or design changes within 72 hours of identification and complete BMP repairs or other changes as soon as possible, or before the next predicted rain event, whichever is sooner, per the Lake Tahoe Hydrologic Unit Permit.
- Daily inspections required for waste containers (covered at end of shift), tracking, and others per project specifications.

7.9 Appendix H - CEM-2061 Notice of Discharge Report

- Required by Caltrans to document compliance with Caltrans Permit.
- To be completed when discharges are causing or contributing to an exceedance of an applicable water quality standard.
- Sampling guidance is found in the current edition of the Caltrans *Construction Site Monitoring Program Guidance Manual*.
- The most recent Caltrans forms are available at: http://www.dot.ca.gov/hq/construc/forms.htm

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

NOTICE OF DISCHARGE REPORT

CEM-2061 (REV 01/2018)

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM WDID NUMBER DISCHARGE REPORT NUMBER
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL ☐ Risk Level 1 ☐ Risk Level 2 ☐ Risk Level 3 ☐ N/A. WPCP
Submitted by contractor (print and sign name)	Date

A. Discharge Information

Discharge Location	Discharge Type ☐ Stormwater ☐ Authorized non-stormwater ☐ Non-authorized non-stormwater ☐ Other
Discharge samples taken? ☐ YES ☐ NO If yes, complete Section E	Discharge identified by Name: _____ Title: _____ Date/Time: _____

Date and time water pollution control manager notified of discharge:

Date and time resident engineer or district construction stormwater coordinator notified of discharge:

B. Discharge Information

Describe the discharge, based on a visual observation; estimate discharge quantities:	Photographs ☐ YES ☐ NO
Describe the source and the operation that cause the discharge:	☐ YES ☐ NO

Describe existing BMPs at the discharge location:

C. Field Response

Was the discharge eliminated? ☐ YES ☐ NO

Describe changes in operation and BMPs implemented to eliminate the discharge and control the source:

Corrective action plan and implementation schedule:

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STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION
NOTICE OF DISCHARGE REPORT
CEM-2061 (REV 01/2018)

DISCHARGE REPORT NUMBER

D. Assessment of Discharge

Discussion of the discharge event: how, why, whether the discharge was preventable, etc., who participated (required: WPC Manager, RE, contractor's field superintendent)?

Future corrective actions to minimize or eliminate (provide a schedule and list responsible parties):

Were quantities estimated in Section B corrected by field measurements?

E. Sampling and Analysis Results

Required when discharge samples are taken. Attach CEM-2052 or lab results report.

- Are discharge samples taken? ☐ YES ☐ NO
- Is CEM-2052 attached? ☐ YES ☐ NO ☐ N/A
- Is lab results report attached? ☐ YES ☐ NO ☐ RESULTS PENDING
- If applicable, provide lab information: lab name, contract name, date samples sent, attach a copy of chain of custody, etc.

F. Certification

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

Water Pollution Control Manager (name)	WPC Manager Phone Number
Water Pollution Control Manager (signature)	Date

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STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

NOTICE OF DISCHARGE REPORT

CEM-2061 (REV 01/2018)

DISCHARGE REPORT NUMBER

For Caltrans Use

Accepted by Resident Engineer (name)	Date
Resident Engineer (signature)	

Discharge reported by telephone or email to the Regional Water Quality Control Board (RWQCB)?	Date discharge reported to RWQCB	Reported by
A. Immediately and no later than 2 hours after discovery (sewage discharging)? ☐ YES ☐ NO		
B. Within 24 hours (project specific)? ☐ YES ☐ NO		
C. As soon as possible but within 48 hours? ☐ YES ☐ NO		
Notice of Discharge Report submitted to RWQCB within 14 days (3 days for District 7 and District 11)?	Date report submitted to RWQCB	Resident Engineer or DCSWC initials
A. Within 24 hours (sewage discharge)? ☐ YES ☐ NO		
B. Within 14 days? ☐ YES ☐ NO		
C. Within _____ days (project specific)? ☐ YES ☐ NO		

Instructions

GENERAL INFORMATION

- This form is required for compliance with provisions in Section E.2.c, "Monitoring and Discharge Characterization Requirements," of the National Pollutant Discharge Elimination System (NPDES) Permit Statewide Storm Water Permit and Waste Discharge Requirements (WDRs) for the State of California, Department of Transportation, Order No. 2012-0011-DWQ, NPDES No. CAS000003.
- This form is to be completed when the contractor, Caltrans, State Water Resources Control Board, or Regional Water Quality Control Board staff determines that stormwater discharges, authorized non-stormwater discharges, or non-authorized, non-stormwater discharges are causing or contributing to an exceedance of an applicable water quality standard.
- This form is appropriate when there is evidence of a discharge that occurred outside of business hours where no sampling occurred.
- This form is appropriate when there is a discharge of AC grindings; concrete debris, rubble, or fines; dry materials; construction wastes; or, contaminated soils or sediment.
- When a discharge occurs, Section C is used to describe the maintenance or repair of BMPs that were done and Section D is used to describe BMPs that will be implemented in the future.
- Water quality standards are contained in the Statewide Water Quality Control Plan or applicable Regional Water Quality Control Boards (RWQCBs) Basin Plan.
- Sampling guidance is found in the current edition of the *Construction Site Monitoring Program Guidance Manual.*
- If sampling is done, effluent samples must be collected.
- Include a copy of the completed form in the project Storm Water Pollution Prevention Plan (SWPPP) files.

FORM

- **Contract Number/Co/Rte/PM**
  For encroachment permit projects, write the local agency or private entity encroachment permit number in the contract number field.
- **Discharge Information**
  Do not leave any subsection blank. Caltrans permit specifically requires Caltrans to submit the information in this section to RWQCBs. For non-stormwater discharges, describe the construction operation or activity that caused the discharge.
- **Field Response**
  Corrective action plan must include a description of maintenance or repair for existing BMPs and an implementation schedule for future BMP changes or implementation.
- **Sampling and Analysis Results**
  Leave this section blank if the no box is checked for discharge samples taken.
- **Notice of Discharge Report Certification**
  For instruction on reporting timelines, see Section 9.4, Noncompliance Reporting, of Statewide Stormwater Management Plan, May 2003.

7.9.1 CEM-2061T – Notice of Discharge Report

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

NOTICE OF DISCHARGE REPORT - LAKE TAHOE HYDROLOGIC UNIT
STORMWATER SAMPLE FIELD TEST REPORT/RECEIVING WATER MONITORING REPORT

CEM-2061T (REV 05/2015) Page 1 of 5

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM PROJECT IDENTIFIER NUMBER WDID NUMBER
CONTRACTOR NAME AND ADDRESS	PROJECT RESIDES IN THE LAKE TAHOE HYDROLOGIC UNIT AND IS REGULATED UNDER ORDER NO. R6T-2011-0019, NPDES NO. CAG616002.
Submitted by contractor (print and sign name)	Date

Notice of Discharge General Information

Location	Date discharge discovered
	Discharge type: ☐ Stormwater ☐ Authorized non-stormwater ☐ Non-authorized non-stormwater
	Exceedance of applicable water quality standard: ☐ Turbidity (NEL) ☐ pH (NAL) ☐ _____
Discharge identified by visual site inspection? ☐ YES ☐ NO	Discharge discovered by contractor during daily work? ☐ YES ☐ NO
Discharge samples taken? ☐ YES ☐ NO	
Discharge identified by Regional Water Quality Control Board? ☐ YES ☐ NO	Discharge identified by State Water Resources Control Board? ☐ YES ☐ NO
Date and time water pollution control manager notified of discharge	
Date and time resident engineer notified of discharge	

Storm Event Information

Complete this section for stormwater discharges

Start of storm event	End of storm event	Duration of storm event	Storm event precipitation amount recorded from site rain gauge	Storm event precipitation amount recorded from governmental rain gauge
_____ *Date* _____ *Time*	_____ *Date* _____ *Time*	_____ *Hours : Minutes.*	_____ *inches*	_____ *inches*

Notice of Discharge Information

Photographs

The nature and cause of the water quality standard exceedance, based on a visual observation of the discharge location ☐ YES ☐ NO

BMPs currently installed at the location of the discharge ☐ YES ☐ NO

Additional BMPs that will be implemented to prevent or reduce pollutants causing or contributing to exceedance of a water quality standard

Implementation schedule for additional BMPs

ADA Notice For individuals with sensory disabilities, this document is available in alternate formats. For alternate format information, contact the Forms M Unit at (916) 445-1233, TTY 711, or write to Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

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Notice of Discharge Information (continued)

Maintenance or repair of BMPs

Implementation schedule for BMPs maintenance or repair

Other required corrective actions

Implementation schedule for corrective actions

Summary of actions taken to reduce the pollutants causing or contributing to the water quality standard exceedance

Sampling and Analysis Information

Required when discharge samples are taken. Attach lab results report if applicable.

- Are discharge samples taken? ☐ YES ☐ NO
- Is lab results report attached? ☐ YES ☐ NO ☐ RESULTS PENDING
- If applicable, provide lab information: lab name, contract name, date samples sent, attach a copy of chain of custody, etc.

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Stormwater Samples Analysis

Date of sampling	
Sample location identification number	Date of analysis
Sample analyzed by (signature)	Samples to be analyzed for parameters ☐ Turbidity ☐ pH ☐ Other _____ ☐ Other _____
Sample analyzed by (print name)	
Analyzer phone number ( )	
Company	

Field Turbidity Analysis Information

Meter Manufacturer	Model Number	Serial Number	Calibration Date
Analytical Method	Method Reporting Unit	Method Detection Limit	

Field pH Analysis Information

pH Meter Manufacturer	Model Number	Serial Number	Calibration Date
Analytical Method	Method Reporting Unit	Method Detection Limit	

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NOTICE OF DISCHARGE REPORT - LAKE TAHOE HYDROLOGIC UNIT
STORMWATER SAMPLE FIELD TEST REPORT/RECEIVING WATER MONITORING REPORT

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Notice of Discharge Report Certification

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

Water Pollution Control Manager (name)	Date
Water Pollution Control Manager (signature)	

For Caltrans Use

Accepted by Resident Engineer (name)	Date
Resident Engineer(signature)	

Discharge reported orally to the Lahontan RWQCB within 24 hours of discovery? ☐ YES ☐ NO	Date called Lahontan RWQCB	Resident engineer initials
Electronic submittal of NEL exceedance sample results to Lahontan RWQCB and SMARTS within 5 business days? ☐ YES ☐ NO	Date report submitted	Resident engineer initials

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

NOTICE OF DISCHARGE REPORT - LAKE TAHOE HYDROLOGIC UNIT
STORMWATER SAMPLE FIELD TEST REPORT/RECEIVING WATER MONITORING REPORT

CEM-2061T (REV 05/2015) Page 5 of 5

INSTRUCTIONS

General Information

- This form is to be completed when the contractor, Department of Transportation (Caltrans), State Water Resources Control Board (SWRCB), or Regional Water Quality Control Board (RWQCB) staff determines that storm water discharges, authorized non-stormwater discharges, or nonauthorized, non-stormwater discharges are causing or contributing to an exceedance of an applicable water quality standard.
- This form is appropriate when there is evidence of a discharge that occurred outside of business hours where no sampling occurred.
- Water quality standards are contained in the Statewide Water Quality Control Plan or applicable RWQCB Basin Plan.
- Sampling guidance is found in the current edition of the *Construction Site Monitoring Program Guidance Manual*.
- Include a copy of the completed form in the project Storm Water Pollution Prevention Plan (SWPPP) files.
- Complete Form CEM-2058, "Stormwater Meter Calibration Record- Specialty Meters," if other parameters are tested.
- Sampling and sample preservation must be in accordance with the current edition of "*Standard Methods for the Examination of Water and Wastewater*" (American Public Health Association).
- Collect, maintain, and ship samples according to the SWRCB, Surface Water Ambient Monitoring Program's Quality Assurance Program Plan latest edition.
- Complete a separate storm water sample field analysis report daily for each sampling location.

Form

- **Project Identifier Number**
  Caltrans projects starting July 1, 2010, will have a project identifier number. For projects without a number, write N/ A in the field.
- **Contract Number/Co/RTE/PM**
  For encroachment permit projects write the local agency of private entity encroachment permit number in the contract number field.
- **Storm Event Information**
  Leave section blank if box is checked for either authorized or non-authorized non-stormwater discharge.
- **Discharge Information**
  Do not leave any subsection blank. Caltrans permit specifically requires Caltrans to submit the information in this section to RWQCBs. For non-stormwater discharges, describe the construction operation activity that caused the discharge.
- **Sampling and Analysis Results**
  Leave this section blank if the 'no' box is checked for discharge samples taken.
- **Analysis Results**
  Analytical results less than the method detection limit shall be reported as "less than the method detection limit."
- **Analysis Information**
  Leave section blank if the 'no' box is checked for discharge samples taken.
- **Qualifying Rain Event Daily Average Analysis Result**
  A minimum of three daily samples are required to calculate the daily average for a qualifying rain event.
- **Sample pH Analysis**
  Sample pH reading must be done within 15 minutes of sample collection.
- **Receiving Water Monitoring Trigger (RWMT) Exceedance**
  In the event that any daily average RWMT is exceeded, complete Form CEM-2062, "Numeric Action Level Exceedance Report I Receiving Water Monitoring Trigger Report" and submit all storm event sampling results to the resident engineer within six hours.

Appendix A: Definition of Terms

Active Areas. An area where soil disturbing activities have occurred at least once within 15 days.

Areas of Construction. All areas subject to land surface disturbance activities related to the project including, but not limited to, project staging areas, immediate access areas and storage areas.

Air Deposition. Airborne particulates from construction activities.

Beneficial Uses. As defined in the California Water Code, beneficial uses of the waters of the state that may be protected against quality degradation include, but are not limited to, domestic, municipal, agricultural and industrial supply; power generation; recreation; aesthetic enjoyment; navigation; and preservation and enhancement of fish, wildlife, and other aquatic resources or preserves.

Best Management Practices (BMPs). BMPs are scheduling of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants. BMPs also include treatment requirements, operating procedures, and practices to control site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Caltrans Permit. The Caltrans Statewide NPDES Permit for discharges from Caltrans properties, facilities, and activities (Order No. 2012-011-DWQ, NPDES No. CAS000003), issues by the SWRCB.

Chain of Custody (COC). Form used to track sample handling as samples progress from sample collection to the analytical laboratory. The COC is then used to track the resulting analytical data from the laboratory to the client. COC forms can be obtained from an analytical laboratory upon request.

Coagulation. The clumping of particles in a discharge to settle out impurities, often induced by chemicals such as lime, alum, and iron salts.

Common Plan of Development. Generally, a contiguous area where multiple, distinct construction activities may be taking place at different times under one plan. A plan is generally defined as any piece of documentation or physical demarcation that indicates that construction activities may occur on a common plot. Such documentation could consist of a tract map, parcel map, demolition plans, grading plans or contract documents. Any of these documents could delineate the boundaries of a common plan area. However, broad planning documents, such as land use master plans, conceptual master plans, or broad-based CEQA or NEPA documents that identify potential projects for an agency or facility are not considered common plans of development.

Construction Activity. Includes clearing, grading, or excavation and contractor activities that result in soil disturbance.

Construction Site. The area involved in a construction project as a whole.

Construction Site BMPs. Temporary control practices (BMPs) that are required only temporarily to address a short-term stormwater contamination threat. For example, silt fences are located near the base of newly graded slopes that have substantial area of exposed soil. Then, during rainfall, the silt fences allow capture sediment from erosion of the slopes.

Contamination. An impairment of the quality of the waters of the state by waste to a degree that creates a hazard to the public health through poisoning or through the spread of disease including any equivalent effect resulting from the disposal of waste, whether or not waters of the state are affected.

Contractor. Party responsible for carrying out the contract per plans and specifications. The Standard Specifications and contract special provisions contain stormwater protection requirements the contractor must address.

Contractor-Support Facilities. Contractor-support facilities include: Staging areas, storage yards for equipment and materials, mobile operations, batch plants for PCC and HMA, crushing plants for rock and aggregate, other facilities installed for contractor convenience such as haul roads.

Debris. Litter, rubble, discarded refuse, and remains of destroyed inorganic anthropogenic waste.

Desert Areas. Areas within the Colorado River Basin RWQCB and the North and South Lahontan RWQCB jurisdictions (excluding the Mono and Antelope areas, East and West Walker River, East and West Carson River, and the Truckee and Little Truckee River).

Direct Discharge. A discharge that is routed directly to waters of the United States by means of a pipe, channel, or ditch (including a municipal storm sewer system), or through surface runoff.

Discharge. Any release, spill, leak, pump, flow, escape, dumping, or disposal of any liquid, semi-solid or solid substance.

Disturbed Soil Areas (DSAs). Areas of exposed, erodible soil, including stockpiles, that are within the construction limits and that result from construction activities.

Drainage Area. The area of land that drains water, sediment, pollutants, and dissolved materials to a common outlet.

Effluent. Any discharge of water by a discharger either to the receiving water or beyond the property boundary controlled by the discharger.

Effluent Limitation. Any numeric or narrative restriction imposed on quantities, discharge rates, and concentrations of pollutants which are discharged from point sources into waters of the United States, the waters of the contiguous zone, or the ocean.

Environmental Protection Agency (EPA). Agency that issued the regulations to control pollutants in stormwater runoff discharges (The Clean Water Act and NPDES permit requirements).

Erosion. The process, by which soil particles are detached and transported by the actions of wind, water, or gravity.

Erosion Control BMPs. Vegetation, such as grasses and wildflowers, and other materials, such as straw, fiber, stabilizing emulsion, protective blankets, etc., placed to stabilize areas of disturbed soils, reduce loss of soil due to the action of water or wind, and prevent water pollution.

Exempt Construction Activities. Activities exempt from the CGP, including routine maintenance to maintain original line and grade, hydraulic capacity, or original purpose of the facility; and emergency construction activities required to protect public health and safety. Local permits may not exempt these activities.

Existing vegetation. Any vegetated area that has not already been cleared and grubbed.

Fair Weather Prediction. When there is no precipitation in the forecast between the current calendar day and the next working day. The National Weather Service National Oceanic and Atmospheric Administration (NOAA) Weather Radio forecast shall be used. The contractor may propose an alternative forecast for use if authorized by the RE.

Feasible. Economically achievable or cost-effective measures, which reflect a reasonable degree of pollutant reduction achievable through the application of available nonpoint pollution control practices, technologies, processes, site criteria, operating methods, or other alternatives.

Field Measurements. Testing procedures performed in the field with portable field-testing kits or meters.

Final Stabilization. All soil disturbing activities at each individual parcel within the site have been completed in a manner consistent with the requirements in this General Permit.

Forecasted Storm Event. A storm that produces or is forecasted to produce at least 0.10 inch of precipitation within a 24-hour period.

General Permit. The Construction General Permit for Storm Water Discharges Associated with Construction Activity (Order No. 2009-000-DWQ, NPDES Permit CAS000002) and amendments (Order No. 2010-0014-DWQ and Order No. 2012-0006-DWQ) issued by the SWRCB.

Good Housekeeping. A common practice related to the storage, use, or cleanup of materials, performed in a manner that minimizes the discharge of pollutants.

Good Housekeeping BMPs. BMPs designed to reduce or eliminate the addition of pollutants to construction site runoff through analysis of pollutant sources, implementation of proper handling/disposal practices, employee education, and other actions. Grading Phase (part of the Grading and Land Development Phase) Includes reconfiguring the topography and slope including; alluvium removals; canyon cleanouts; rock undercuts; keyway excavations; land form grading; and stockpiling of select material for capping operations.

Grading Phase. Includes reconfiguring the topography for the project including; excavation for roadway including necessary blasting of hard rock, highway embankment construction (fills); mass grading, and stockpiling of select material for capping operations.

Highway Construction Phase. Highway construction phase includes both highway and structure construction. Highway construction includes final roadway excavation, placement of base materials and highway paving, finish grading, curbs, gutters and sidewalks, public utilities, public water facilities including fire hydrants, public sanitary sewer systems, storm drain systems and/or other drainage improvements, highway lighting, traffic signals and/or other highway electrical work, guardrail, concrete barriers, sign installation, pavement markers, traffic stripping and pavement markings. Structure construction includes structure footings, bridges, retaining walls, major culverts, overhead sign structures and buildings.

Highway Planting/Erosion Control Establishment Phase. Highway planting including clearing and grubbing operations, soil preparation (grading, incorporation of soil amendments, placement of topsoil), irrigation (trenching, installation, trench backfilling), minor grading (top dressing, fine grading lawn and ground cover areas), hardscaping, planting (seeding and planting of plants), mulch (application of wood chips or other mulches) and plant establishment (weeding, plant replacement and if needed: fertilizer application, irrigation maintenance, reapplication of mulch). Erosion control includes placement of permanent erosion control materials and maintenance of temporary sediment controls during the erosion control establishment period.

Inactive Areas of Construction. Areas where soil-disturbing work activities have not occurred within the last 15 days.

Likely Precipitation Event. Any weather pattern that is forecasted to have a 50 percent or greater chance of producing precipitation in the project area. The discharger shall obtain likely precipitation forecast information from the National Weather Service Forecast Office (e.g., by entering the zip code of the project's location at http://www.srh.noaa.gov/forecast).

National Pollutant Discharge Elimination System (NPDES) Permit. A permit issued pursuant to the CWA that requires the discharge of pollutants to waters of the United States from stormwater be controlled.

Inactive Construction Area. Any area not considered to be an active construction area. Active construction areas become inactive construction areas whenever construction activities are expected to be discontinued for a period of 14 days or longer.

Non-Storm Water Discharges. Non-Storm Water Discharges are discharges that do not originate from forecasted storm events. They can include, but are not limited to, discharges of process water, air

conditioner condensate, non-contact cooling water, vehicle wash water, sanitary wastes, concrete washout water, paint wash water, irrigation water, or pipe testing water.

Non-Visible Pollutants. Pollutants associated with a specific site or activity that can have a negative impact on water quality, but cannot be seen though observation (ex: chlorine). Such pollutants being discharged are not authorized.

pH. Unit universally used to express the intensity of the acid or alkaline condition of a water sample. The pH of natural waters tends to range between 6 and 9, with neutral being 7. Extremes of pH can have deleterious effects on aquatic systems.

Pollution. The man-made or man-induced alteration of the chemical, physical, biological, and radiological integrity of water. An alteration of the quality of the water of the state by waste to a degree, which unreasonably affects either the waters for beneficial uses or facilities that serve these beneficial uses.

Post-Construction BMPs. Structural and non-structural controls which detain, retain, or filter the release of pollutants to receiving waters after final stabilization is attained.

Preliminary Phase (Pre-Construction Phase - Part of the Grading and Land Development Phase). Construction stage including rough grading and/or disking, clearing and grubbing operations, or any soil disturbance prior to mass grading.

Qualified SWPPP Developer (QSD). Individual who is authorized to develop and revise SWPPPs.

Qualified SWPPP Practitioner (QSP). Individual assigned responsibility for non-storm water and storm water visual observations, sampling and analysis, and responsibility to ensure full compliance with the permit and implementation of all elements of the SWPPP, including the preparation of the annual compliance evaluation and the elimination of all unauthorized discharges.

Qualifying Rain Event. Any event that produces 0.5 inches or more precipitation at the time of discharge with a 48 hour or greater period between rain events. (2010 standard specification text defines it as a 72 hour between rain events)

R Factor. Erosivity factor used in the Revised Universal Soil Loss Equation (RUSLE). The R factor represents the erosivity of the climate at a particular location. An average annual value of R is determined from historical weather records using erosivity values determined for individual storms. The erosivity of an individual storm is computed as the product of the storm's total energy, which is closely related to storm amount, and the storm's maximum 30-minute intensity.

Receiving Waters. All surface water bodies within the permit area.

Regional Water Quality Control Board (RWQCB). California agencies that implement and enforce CWA Section 402(p) NPDES permit requirements, and are issuers and administrators of these permits as delegated by USEPA. There are nine regional boards working with the SWRCB.

Resident Engineer (RE). The Caltrans representative charged with administration of construction contracts. The RE decides questions regarding acceptability of material furnished and work performed. The RE has "contractual authority" to direct the contractor and impose sanctions if the contractor fails to take prompt and appropriate action to correct deficiencies. The following contractual sanctions can be imposed by the RE: (a) withholding payments (or portions of payments), (b) suspending work, (c) bringing in a separate contractor to complete work items (the contractor is billed for such costs), (d) assessing liquidated damages including passing along fines for permit violations, (e) initiating cancellation of the construction contract.

Routine Maintenance. Activities intended to maintain the original line and grade, hydraulic capacity, or original purpose of a facility.

Runoff Control BMPs. Measures used to divert run-on from off-site and runoff within the site.

Runoff Effect. The effect that a particular soil stabilization product has on the production of stormwater runoff. Runoff from an area protected by a particular product may be compared to the amount of runoff measured for bare soil

Run-on. Discharges that originate off-site and flow onto the property of a separate project site.

Sediment. Solid particulate matter, both mineral and organic, that is in suspension, is being transported, or has been moved from its site of origin by air, water, gravity, or ice and has come to rest on the earth's surface either above or below sea level.

Sedimentation. Process of deposition of suspended matter carried by water, wastewater, or other liquids, by gravity. It is usually accomplished by reducing the velocity of the liquid below the point at which it can transport the suspended material.

Sediment Control BMPs. Practices that trap soil particles after they have been eroded by rain, flowing water, or wind. They include those practices that intercept and slow or detain the flow of storm water to allow sediment to settle and be trapped (e.g., silt fence, sediment basin, fiber rolls).

Sheet Flow. Flow of water that occurs overland in areas where there are no defined channels where the water spreads out over a large area at a uniform depth.

Soil Amendment. Any material that is added to the soil to change its chemical properties, engineering properties, or erosion resistance that could become mobilized by storm water.

State Water Resources Control Board (SWRCB). California agency that implements and enforces CWA Section 402(p) NPDES permit requirements, is issuer and administrator of these permits as delegated by EPA. Works with the nine Regional Water Quality Control Boards.

Storm Drain System. Streets, gutters, inlets, conduits, natural or artificial drains, channels and watercourses, or other facilities that are owned, operated, maintained and used for the purpose of collecting, storing, transporting, or disposing of stormwater.

Stormwater. Rainfall runoff, snow melt runoff, and surface runoff and drainage. It excludes infiltration and runoff from agricultural land.

Stormwater Pollution Prevention Plan (SWPPP). A plan required by the Permit that includes site map(s), an identification of construction/contractor activities that could cause pollutants in the stormwater, and a description of measures or practices to control these pollutants. It must be prepared and authorized before construction begins. A SWPPP prepared in accordance with the Special Provisions and the Handbooks will satisfy Standard Specifications Section 13 Water Pollution Control

Structural Controls. Any structural facility designed and constructed to mitigate the adverse impacts of storm water and urban runoff pollution

Temporary Construction Site BMPs. Construction Site BMPs that are required only temporarily to address a short-term stormwater contamination threat. For example, silt fences are located near the base of newly graded slopes that have a substantial area of exposed soil. Then, during rainfall, the silt fences filter and collect sediment from runoff flowing off the slope.

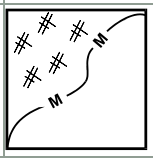
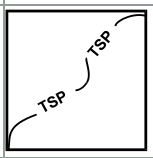
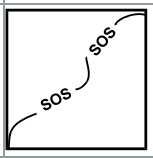
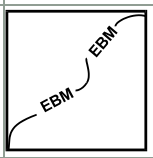
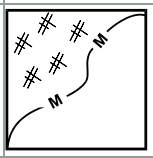
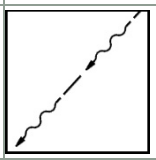
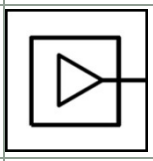
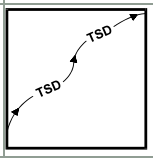
Water Pollution Control Manager (WPC Manager). The person responsible for the implementation of the SWPPPP or WPCP, whichever is applicable for the project. The WPC manager must be a QSP whenever the project requires a WPCP. The WPC manager must be a QSD whenever the project requires a SWPPP.

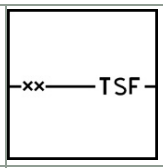
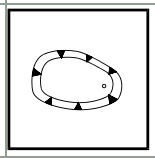
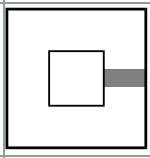
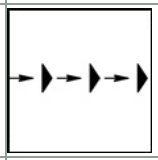
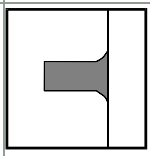
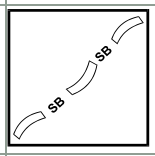
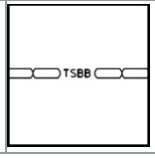
Water Pollution Control Program (WPCP). A WPCP is a plan to identify water quality management practices to be implemented that must be prepared for all construction projects that do not require

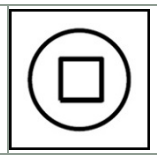
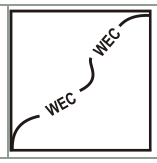
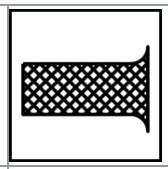
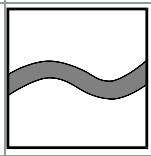
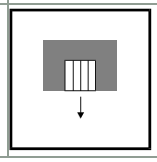
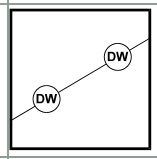
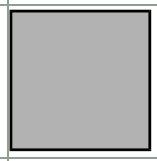
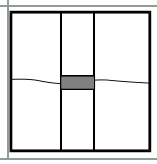
preparation of a SWPPP. For Caltrans projects disturbing more than one acre, a SWPPP satisfies the requirement for a WPCP.

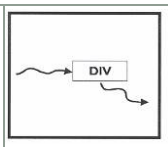
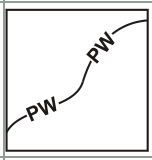
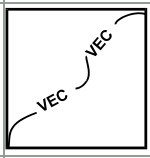
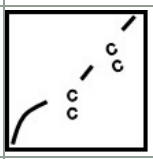
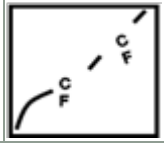
Waters of the United States. Generally, refers to surface waters, as defined by the federal Environmental Water quality objectives are defined in the California Water Code as limits or levels of water quality constituents or characteristics, which are established for the reasonable protection of beneficial uses of water or the prevention of nuisance within a specific area.

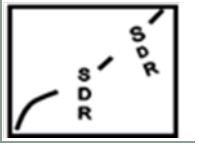
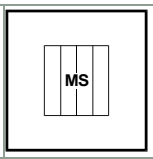
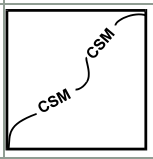
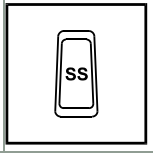
Appendix B: List of Standard BMP Symbols

Water Pollution Control BMP Symbols	
BMP	**Symbol**
Soil Stabilization	
SS-2: Preservation of Existing Vegetation	
SS-3: Hydraulic Mulch (Note: Symbol -M- is generic Hydraulic Mulch symbol. Use line type symbol -BFM- for Bonded Fiber Matrix, and -PSFM- for Polymer Stabilized Fiber Matrix)	
SS-4: Hydroseeding	
SS-5: Soil Binders	
SS-6: Straw Mulch	
SS-7: Geotextiles, Mats, Plastic Covers and Erosion Control Blankets	
SS-8: Wood Mulching	
SS-9: Earth Dikes/Drainage Swales and Lined ditches	
SS-10: Outlet Protection/Velocity Dissipation Devices	
SS-11: Slope Drains	

Water Pollution Control BMP Symbols	
BMP	**Symbol**
SS-12: Streambank Stabilization	
Sediment Control	
SC-1: Silt Fence	
SC-2: Sediment/Desilting Basin	
SC-3: Sediment Trap	
SC-4: Check Dams	
SC-5: Fiber Rolls	
SC-6: Gravel Bag Berm	
SC-7: Street Sweeping and Vacuuming	
SC-8: Sandbag Barrier	
SC-9: Straw Bale Barrier	

Water Pollution Control BMP Symbols	
BMP	**Symbol**
SC-10: Storm Drain Inlet Protection	
Wind Erosion Control	
WE-1: Wind Erosion Control	
Tracking Control	
TC-1: Stabilized Construction Entrance/Exit	
TC-2: Stabilized Construction Roadway	
TC-3: Entrance/Outlet Tire Wash	
Non-Stormwater Management	
NS-1: Water Conservation Practices	
NS-2: Dewatering Operations	
NS-3: Paving and Grinding Operations	
NS-4: Temporary Stream Crossing	

Water Pollution Control BMP Symbols	
BMP	**Symbol**
NS-5: Clear Water Diversion	
NS-6: Illicit Connection/Illegal Discharge	
NS-7: Potable Water/Irrigation	
NS-8: Vehicle and Equipment Cleaning	
NS-9: Vehicle and Equipment Fueling	
NS-10: Vehicle and Equipment Maintenance	
NS-11: Pile Driving Operations	
NS-12: Concrete Curing	
NS-13: Material and Equipment Use Over Water	
NS-14: Concrete Finishing	

Water Pollution Control BMP Symbols	
BMP	**Symbol**
NS-15: Structure Demolition Over or Adjacent to Water	
Waste Management and Materials Pollution Control	
WM-1: Material Delivery and Storage	
WM-2: Material Use	
WM-3: Stockpile Management	
WM-4: Spill Prevention and Control	
WM-5: Solid Waste Management	
WM-6: Hazardous Waste Management	
WM-7: Contaminated Soil Management	
WM-8: Concrete Waste Management	
WM-9: Sanitary/Septic Waste Management	

Water Pollution Control BMP Symbols	
BMP	**Symbol**
WM-10: Liquid Waste Management