

## Attachment F

Other Plans/Permits/Agreements





# California Regional Water Quality Control Board Central Valley Region

Katherine Hart, Chair

415 Knollcrest Drive, Suite 100, Redding, California 96002  
(530) 224-4845 • Fax (530) 224-4857



Arnold  
Schwarzenegger  
Governor

Linda S. Adams  
Secretary for  
Environmental  
Protection

7 October 2010

Mr. Bob Greenlaw  
City of Chico  
P.O. Box 3420  
Chico, CA 95927

**RECEIVED**

OCT 11 2010

**CITY OF CHICO  
BDS/D/CPD**

## CLEAN WATER ACT §401 TECHNICALLY CONDITIONED WATER QUALITY CERTIFICATION FOR DISCHARGE OF DREDGED AND/OR FILL MATERIALS FOR THE STATE ROUTE 32 ROAD WIDENING PROJECT (WDID#5A04CR00193), CHICO, BUTTE COUNTY

### ACTION:

1.  Order for Standard Certification
2.  Order for Technically-conditioned Certification
3.  Order for Denial of Certification

### WATER QUALITY CERTIFICATION STANDARD CONDITIONS:

1. This certification action is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to §13330 of the California Water Code and §3867 of Title 23 of the California Code of Regulations (23 CCR).
2. This certification action is not intended and shall not be construed to apply to any discharge from any activity involving a hydroelectric facility requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license unless the pertinent certification application was filed pursuant to 23 CCR subsection 3855(b) and the application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
3. The validity of any non-denial certification action shall be conditioned upon total payment of the full fee required under 23 CCR §3833, unless otherwise stated in writing by the certifying agency.
4. Certification is valid for the duration of the described project. City of Chico shall notify the Central Valley Water Board in writing within 7 days of project completion.

**ADDITIONAL TECHNICALLY CONDITIONED CERTIFICATION CONDITIONS:**

In addition to the four standard conditions, City of Chico shall satisfy the following:

1. City of Chico shall notify the Central Valley Water Board in writing 7 days in advance of the start of any in-water activities.
2. Except for activities permitted by the U.S. Army Corps under §404 of the Clean Water Act, soil, silt, or other organic materials shall not be placed where such materials could pass into surface water or surface water drainage courses.
3. All areas disturbed by project activities shall be protected from washout or erosion.
4. City of Chico shall maintain a copy of this Certification and supporting documentation (Project Information Sheet) at the Project site during construction for review by site personnel and agencies. All personnel (employees, contractors, and subcontractors) performing work on the proposed project shall be adequately informed and trained regarding the conditions of this Certification.
5. An effective combination of erosion and sediment control Best Management Practices (BMPs) must be implemented and adequately working during all phases of construction.
6. All temporarily affected areas will be restored to pre-construction contours and conditions upon completion of construction activities.
7. City of Chico shall perform surface water sampling: 1) When performing any in-water work; 2) In the event that project activities result in any materials reaching surface waters or; 3) When any activities result in the creation of a visible plume in surface waters. The following monitoring shall be conducted immediately upstream out of the influence of the project and 300 feet downstream of the active work area. Sampling results shall be submitted to this office within two weeks of initiation of sampling and every two weeks thereafter. The sampling frequency may be modified for certain projects with written permission from the Central Valley Water Board.

<b>Parameter</b>	<b>Unit</b>	<b>Type of Sample</b>	<b>Frequency of Sample</b>
Turbidity	NTU	Grab	Every 4 hours during in water work
Settleable Material	ml/l	Grab	Same as above.
Visible construction related pollutants	Observations	Visible Inspections	Continuous throughout the construction period

8. Activities shall not cause turbidity increases in surface water to exceed:
- (a) where natural turbidity is less than 1 Nephelometric Turbidity Units (NTUs), controllable factors shall not cause downstream turbidity to exceed 2 NTU;
  - (b) where natural turbidity is between 1 and 5 NTUs, increases shall not exceed 1 NTU;
  - (c) where natural turbidity is between 5 and 50 NTUs, increases shall not exceed 20 percent;
  - (d) where natural turbidity is between 50 and 100 NTUs, increases shall not exceed 10 NTUs;
  - (e) where natural turbidity is greater than 100 NTUs, increases shall not exceed 10 percent.

Except that these limits will be eased during in-water working periods to allow a turbidity increase of 15 NTU over background turbidity as measured in surface waters 300 feet downstream from the working area. In determining compliance with the above limits, appropriate averaging periods may be applied provided that beneficial uses will be fully protected. Averaging periods may only be assessed by prior permission of the Central Valley Water Board.

9. Activities shall not cause settleable matter to exceed 0.1 ml/l in surface waters as measured in surface waters 300 feet downstream from the project.
10. The discharge of petroleum products or other excavated materials to surface water is prohibited. Activities shall not cause visible oil, grease, or foam in the work area or downstream. City of Chico shall notify the Central Valley Water Board immediately of any spill of petroleum products or other organic or earthen materials.
11. City of Chico shall notify the Central Valley Water Board immediately if the above criteria for turbidity, settleable matter, oil/grease, or foam are exceeded.
12. City of Chico shall comply with all Department of Fish and Game 1600 requirements for the project.
13. City of Chico must obtain coverage under the NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board for any project disturbing an area of 1 acre or greater.
14. The Conditions in this water quality certification are based on the information in the attached "Project Information." If the information in the attached Project Information is modified or the project changes, this water quality certification is no longer valid until amended by the Central Valley Water Board.
15. In the event of any violation or threatened violation of the conditions of this Order, the violation or threatened violation shall be subject to any remedies, penalties, process, or sanctions as provided for under State law and section 401 (d) of the federal Clean Water Act. The applicability of any State law authorizing remedies, penalties, process, or sanctions for the violation or threatened violation constitutes a limitation necessary to ensure compliance into this Order.

- a. If City of Chico or a duly authorized representative of the project fails or refuses to furnish technical or monitoring reports, as required under this Order, or falsifies any information provided in the monitoring reports, the applicant is subject to civil, for each day of violation, or criminal liability.
- b. In response to a suspected violation of any condition of this Order, the Central Valley Water Board may require City of Chico to furnish, under penalty of perjury, any technical or monitoring reports the Central Valley Water Board deems appropriate, provided that the burden, including cost of the reports, shall be in reasonable relationship to the need for the reports and the benefits to be obtained from the reports.
- c. City of Chico shall allow the staff(s) of the Central Valley Water Board, or an authorized representative(s), upon the presentation of credentials and other documents, as may be required by law, to enter the project premises for inspection, including taking photographs and securing copies of project-related records, for the purpose of assuring compliance with this certification and determining the ecological success of the project.

#### **ADDITIONAL STORM WATER QUALITY CONDITIONS:**

City of Chico shall also satisfy the following additional storm water quality conditions:

1. During the construction phase, City of Chico must employ strategies to minimize erosion and the introduction of pollutants into storm water runoff. These strategies must include the following:
  - (a) the Storm Water Pollution Prevention Plan (SWPPP) must be prepared during the project planning and design phases and before construction;
  - (b) an effective combination of erosion and sediment control Best Management Practices (BMPs) must be implemented and adequately working prior to the rainy season and during all phases of construction.
2. City of Chico must minimize the short and long-term impacts on receiving water quality from the State Route 32 Road Widening Project by implementing the following post-construction storm water management practices:
  - (a) minimize the amount of impervious surface;
  - (b) reduce peak runoff flows;
  - (c) provide treatment BMPs to reduce pollutants in runoff;
  - (d) ensure existing waters of the State (e.g., wetlands, vernal pools, or creeks) are not used as pollutant source controls and/or treatment controls;
  - (e) preserve and, where possible, create or restore areas that provide important water quality benefits, such as riparian corridors, wetlands, and buffer zones;
  - (f) limit disturbances of natural water bodies and natural drainage systems caused by development (including development of roads, highways, and bridges);
  - (g) use existing drainage master plans or studies to estimate increases in pollutant loads and flows resulting from projected future development and require incorporation of structural and non-structural BMPs to mitigate the projected pollutant load increases in surface water runoff;

- (h) identify and avoid development in areas that are particularly susceptible to erosion and sediment loss, or establish development guidance that protects areas from erosion/ sediment loss;
  - (i) control post-development peak storm water run-off discharge rates and velocities to prevent or reduce downstream erosion, and to protect stream habitat.
3. City of Chico must ensure that all development within the project provides verification of maintenance provisions for post-construction structural and treatment control BMPs. Verification shall include one or more of the following, as applicable:
- (a) the developer's signed statement accepting responsibility for maintenance until the maintenance responsibility is legally transferred to another party; or
  - (b) written conditions in the sales or lease agreement that require the recipient to assume responsibility for maintenance; or
  - (c) written text in project conditions, covenants and restrictions for residential properties assigning maintenance responsibilities to a home owner's association, or other appropriate group, for maintenance of structural and treatment control BMPs; or
  - (d) any other legally enforceable agreement that assigns responsibility for storm water BMP maintenance.
4. Staff of the Central Valley Water Board has prepared total maximum daily load (TMDL) allocations that, once approved, would limit methylmercury in storm water discharges to the Sacramento-San Joaquin Delta. The Central Valley Water Board has scheduled these proposed allocations to be considered for adoption. When the Central Valley Water Board adopts the TMDL and once approved by the Environmental Protection Agency, the discharge of methylmercury may be limited from the proposed project. The purpose of this condition is to provide notice to City of Chico that methylmercury discharge limitations and monitoring requirements may apply to this project in the future and also to provide notice of the Central Valley Water Board's TMDL process and that elements of the planned construction may be subject to a TMDL allocation.

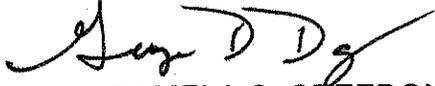
**REGIONAL WATER QUALITY CONTROL BOARD CONTACT PERSON:**

Scott A. Zaitz, R.E.H.S., Redding Branch Office, 415 Knollcrest Drive, Suite 100, Redding, California 96002, szaitz@waterboards.ca.gov, (530) 224-4784

**WATER QUALITY CERTIFICATION:**

I hereby issue an order certifying that any discharge from City of Chico, State Route 32 Road Widening Project (WDID# 5A04CR00193) will comply with the applicable provisions of §301 ("Effluent Limitations"), §302 ("Water Quality Related Effluent Limitations"), §303 ("Water Quality Standards and Implementation Plans"), §306 ("National Standards of Performance"), and §307 ("Toxic and Pretreatment Effluent Standards") of the Clean Water Act. This discharge is also regulated under State Water Resources Control Board Water Quality Order No. 2003-0017 DWQ "Statewide General Waste Discharge Requirements For Dredged Or Fill Discharges That Have Received State Water Quality Certification (General WDRs)".

Except insofar as may be modified by any preceding conditions, all certification actions are contingent on (a) the discharge being limited and all proposed mitigation being completed in strict compliance with City of Chico's project description and the attached Project Information Sheet, and (b) compliance with all applicable requirements of the Regional Water Quality Control Board's Water Quality Control Plan (Basin Plan).



(for) PAMELA C. CREEDON  
Executive Officer

SAZ: knr

Enclosure: Project Information

cc: Mr. Brian Vierra, U.S. Army Corp of Engineers, Sacramento  
U.S. Fish and Wildlife Service, Sacramento  
Department of Fish and Game, Region 2, Rancho Cordova  
Mr. Bill Jennings, CALSPA, Stockton  
Mr. Brooks Taylor, Gallaway Consulting, Chico

cc by email: Mr. Dave Smith, U.S. EPA, Region 9, San Francisco  
Mr. Bill Orme, SWRCB, Certification Unit, Sacramento

## PROJECT INFORMATION

**Application Date:** 23 July 2010

**Applicant:** City of Chico, Attn: Mr. Bob Greenlaw

**Applicant Representatives:** Gallaway Consulting, Attn: Mr. Brooks Taylor

**Project Name:** State Route 32 Road Widening Project

**Application Number:** WDID No. 5A04CR00193

**U.S. Army Corps File Number:** Nationwide Permit No. 14 (Linear Transportation Projects)

**Type of Project:** Widening of State Route 32 Bridge

**Project Location:** Section 25, Township 22 North, Range 01 East, MDB&M.  
Latitude: 39°44'14" and Longitude: -121°49'01"

**County:** Butte County

**Receiving Water(s) (hydrologic unit):** Dead Horse Slough, which is tributary to Sacramento River. Colusa Basin Hydrologic Unit-Butte Basin Hydrologic Area No. 520.40

**Water Body Type:** Wetlands, Riparian, Streambed

**Designated Beneficial Uses:** The Basin Plan for the Central Valley Water Board has designated beneficial uses for surface and ground waters within the region. Beneficial uses that could be impacted by the project include: Agricultural Supply (AGR); Groundwater Recharge, Water Contact Recreation (REC-1); Warm Freshwater Habitat (WARM); Cold Freshwater Habitat (COLD); Warm Freshwater Spawning (SPWN); Cold Freshwater Migration (MIGR); and Wildlife Habitat (WILD).

**Project Description (purpose/goal):** The State Route 32 Road Widening Project consists of widening the existing structure at Dead Horse Slough (Bridge No. 12-0135) to accommodate the additional traffic lanes and widened shoulders. The existing structure is a four span reinforced concrete slab that is 123.5 feet long and 32.5 feet wide. The structure will be widened by 49 feet; the new structure width will be 81.5 feet. The railings on the existing structure will be upgraded to current standards. The structure widening will be constructed in one phase, with the new bridge constructed to the north and joined to the existing structure with a closure pour. Both the existing structure and proposed abutments will be protected from scour with rock slope protection.

The existing 6' X 8' box culvert on South Fork Dead Horse Slough just east of Bruce Road will either be lengthened or replaced to accommodate the roadway widening. Additionally, four smaller culverts that support unnamed ephemeral streams will be lengthened to accommodate the road widening.

**Preliminary Water Quality Concerns:** Construction activities may impact surface waters with increased turbidity and settleable matter.

**Proposed Mitigation to Address Concerns:** City of Chico will implement Best Management Practices (BMPs) to control sedimentation and erosion. All temporary affected areas will be restored to pre-construction contours and conditions upon completion of construction activities. City of Chico will conduct turbidity and settleable matter testing during in-water work, stopping work if Basin Plan criteria are exceeded or are observed.

**Fill/Excavation Area:** Project implementation will permanently impact 0.276 acres of jurisdictional wetlands, 0.202 acres of riparian, and 0.013 acres of un-vegetated streambed. Project implementation will temporarily impact 0.01 acres of un-vegetated streambed.

**Dredge Volume:** Not Applicable

**U.S. Army Corps of Engineers Permit Number:** Nationwide Permit # 14

**Department of Fish and Game Streambed Alteration Agreement:** City of Chico applied for a Streambed Alteration Agreement on 23 September 2010.

**Possible Listed Species:** Based on the habitat suitability assessment conducted by ICF International, the following Federal Threatened or Endangered species have potential to occur in the project area: giant garter snake, vernal pool fairy shrimp, valley elderberry longhorn beetle (VELB) and vernal pool tadpole shrimp.

**Status of CEQA Compliance:** The City of Chico issued a final Notice of Determination approving a Mitigated Negative Declaration on 7 July 2010 in compliance with Section 21108 or 21152 of the Public Resources Code. A mitigation-monitoring program was adopted for this project, along with a statement of Overriding Consideration. Mitigation measures were made a condition of approval. (State Clearinghouse Number 2007022045).

**Compensatory Mitigation:** City of Chico paid fees required by U.S. Army Corps of Engineers and purchased 0.493 acres of vernal pool creation credits from Stillwater Plains Mitigation Bank, Inc. at a cost of \$73,950. The City of Chico purchased 2.34 acres of vernal pool preservation credits on 4 January 2010, from Dove Ridge Mitigation Bank at a cost of \$222,300. In addition the City of Chico purchased 4.836 acres of giant garter snake habitat preservation from Gilsizer Slough South GGS Conservation Bank, in Sutter County for the purchase price of \$145,080.

Impacts to Valley Elderberry Longhorn Beetle will be mitigated for through the transplantation of 11 elderberry shrubs to the River Ranch VELB Conservation Bank mitigation bank at a cost of \$38,500.

**Application Fee Provided:** Total fees of \$5,534 have been submitted as required by 23 CCR §3833b(3)(A) and by 23 CCR §2200(e).

**STATE WATER RESOURCES CONTROL BOARD**

**WATER QUALITY ORDER NO. 2003 - 0017 - DWQ**

**STATEWIDE GENERAL WASTE DISCHARGE REQUIREMENTS FOR  
DREDGED OR FILL DISCHARGES THAT HAVE RECEIVED  
STATE WATER QUALITY CERTIFICATION (GENERAL WDRs)**

The State Water Resources Control Board (SWRCB) finds that:

1. Discharges eligible for coverage under these General WDRs are discharges of dredged or fill material that have received State Water Quality Certification (Certification) pursuant to federal Clean Water Act (CWA) section 401.
2. Discharges of dredged or fill material are commonly associated with port development, stream channelization, utility crossing land development, transportation water resource, and flood control projects. Other activities, such as land clearing, may also involve discharges of dredged or fill materials (e.g., soil) into waters of the United States.
3. CWA section 404 establishes a permit program under which the U.S. Army Corps of Engineers (ACOE) regulates the discharge of dredged or fill material into waters of the United States.
4. CWA section 401 requires every applicant for a federal permit or license for an activity that may result in a discharge of pollutants to a water of the United States (including permits under section 404) to obtain Certification that the proposed activity will comply with State water quality standards. In California, Certifications are issued by the Regional Water Quality Control Boards (RWQCB) or for multi-Region discharges, the SWRCB, in accordance with the requirements of California Code of Regulations (CCR) section 3830 et seq. The SWRCB's water quality regulations do not authorize the SWRCB or RWQCBs to waive certification, and therefore, these General WDRs do not apply to any discharge authorized by federal license or permit that was issued based on a determination by the issuing agency that certification has been waived. Certifications are issued by the RWQCB or SWRCB before the ACOE may issue CWA section 404 permits. Any conditions set forth in a Certification become conditions of the federal permit or license if and when it is ultimately issued.
5. Article 4, of Chapter 4 of Division 7 of the California Water Code (CWC), commencing with section 13260(a), requires that any person discharging or proposing to discharge waste, other than to a community sewer system, that could affect the quality of the waters of the State,<sup>1</sup> file a report of waste discharge (ROWD). Pursuant to Article 4, the RWQCBs are required to prescribe waste discharge requirements (WDRs) for any proposed or existing discharge unless WDRs are waived pursuant to CWC section 13269. These General WDRs fulfill the requirements of Article 4 for proposed dredge or fill discharges to waters of the United States that are regulated under the State's CWA section 401 authority.

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<sup>1</sup> "Waters of the State" as defined in CWC Section 13050(e)

6. These General WDRs require compliance with all conditions of Certification orders to ensure that water quality standards are met.
7. The U.S. Supreme Court decision of *Solid Waste Agency of Northern Cook County v. U.S. Army Corps of Engineers*, 531 U.S. 159 (2001) (the *SWANCC* decision) called into question the extent to which certain “isolated” waters are subject to federal jurisdiction. The SWRCB believes that a Certification is a valid and enforceable order of the SWRCB or RWQCBs irrespective of whether the water body in question is subsequently determined not to be federally jurisdictional. Nonetheless, it is the intent of the SWRCB that all Certification conditions be incorporated into these General WDRs and enforceable hereunder even if the federal permit is subsequently deemed invalid because the water is not deemed subject to federal jurisdiction.
8. The beneficial uses for the waters of the State include, but are not limited to, domestic and municipal supply, agricultural and industrial supply, power generation, recreation, aesthetic enjoyment, navigation, and preservation and enhancement of fish, wildlife, and other aquatic resources.
9. Projects covered by these General WDRs shall be assessed a fee pursuant to Title 23, CCR section 3833.
10. These General WDRs are exempt from the California Environmental Quality Act (CEQA) because (a) they are not a “project” within the meaning of CEQA, since a “project” results in a direct or indirect physical change in the environment (Title 14, CCR section 15378); and (b) the term “project” does not mean each separate governmental approval (Title 14, CCR section 15378(c)). These WDRs do not authorize any specific project. They recognize that dredge and fill discharges that need a federal license or permit must be regulated under CWA section 401 Certification, pursuant to CWA section 401 and Title 23, CCR section 3855, et seq. Certification and issuance of waste discharge requirements are overlapping regulatory processes, which are both administered by the SWRCB and RWQCBs. Each project subject to Certification requires independent compliance with CEQA and is regulated through the Certification process in the context of its specific characteristics. Any effects on the environment will therefore be as a result of the certification process, not from these General WDRs. (Title 14, CCR section 15061(b)(3)).
11. Potential dischargers and other known interested parties have been notified of the intent to adopt these General WDRs by public hearing notice.
12. All comments pertaining to the proposed discharges have been heard and considered at the November 4, 2003 SWRCB Workshop Session.
13. The RWQCBs retain discretion to impose individual or general WDRs or waivers of WDRs in lieu of these General WDRs whenever they deem it appropriate. Furthermore, these General WDRs are not intended to supersede any existing WDRs or waivers of WDRs issued by a RWQCB.

IT IS HEREBY ORDERED that WDRs are issued to all persons proposing to discharge dredged or fill material to waters of the United States where such discharge is also subject to the water quality certification requirements of CWA section 401 of the federal Clean Water Act (Title 33 United States Code section 1341), and such certification has been issued by the applicable RWQCB or the SWRCB, unless the applicable RWQCB notifies the applicant that its discharge will be regulated through WDRs or waivers of WDRs issued by the RWQCB. In order to meet the provisions contained in Division 7 of CWC and regulations adopted thereunder, dischargers shall comply with the following:

1. Dischargers shall implement all the terms and conditions of the applicable CWA section 401 Certification issued for the discharge. This provision shall apply irrespective of whether the federal license or permit for which the Certification was obtained is subsequently deemed invalid because the water body subject to the discharge has been deemed outside of federal jurisdiction.
2. Dischargers are prohibited from discharging dredged or fill material to waters of the United States without first obtaining Certification from the applicable RWQCB or SWRCB.

#### CERTIFICATION

The undersigned, Clerk to the Board, does hereby certify that the foregoing is a full, true, and correct copy of an order duly and regularly adopted at a meeting of the State Water Resources Control Board held on November 19, 2003.

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

NO: None.

ABSENT: None.

ABSTAIN: None.

  
Debbie Irvin  
Clerk to the Board





REPLY TO  
ATTENTION OF

DEPARTMENT OF THE ARMY  
U.S. ARMY ENGINEER DISTRICT, SACRAMENTO  
CORPS OF ENGINEERS  
1325 J STREET  
SACRAMENTO CA 95814-2922

July 13, 2009

Regulatory Division (SPK-2007-01149)

Mr. Bob Greenlaw  
City of Chico  
Capital Project Services Department  
Engineering Division  
411 Main Street/P.O. Box 3420  
Chico, CA 95927

Dear Mr. Greenlaw:

We are responding to your consultants March 23, 2009 request for a Department of the Army permit for the State Route 32 (SR32) Widening project. This approximately 115-acre project involves activities, including the discharge of dredged or fill material, into waters of the United States to widen and improve approximately 2.6 miles of SR 32. The site is located on or near Deadhorse Slough in Section 25, Township 22 North, Range 1 East and Sections 19, 20, and 30, Township 22 North, Range 2 East, MDB&M Survey, Latitude 39° 44' 11.7", Longitude 121° 49' 5.71", Butte County, California.

Based on the information you provided, the proposed activity in approximately 1.409-acres of waters of the United States is authorized by Nationwide Permit Number 14, Linear Transportation Projects. The proposed impacts associated with this work include; approximately 0.493-acre of permanent impacts, 0.01-acre of temporary impacts, and 0.906-acre of indirect impacts to waters of the United States. However, until Section 401 Water Quality Certification for the activity has been issued or waived, our authorization is denied without prejudice. Once you have provided us evidence of water quality certification, the activity is authorized and the work may proceed subject to the conditions of certification and the Nationwide Permit. Your work must comply with the general terms and conditions listed on the enclosed Nationwide Permit information sheets and the following special conditions:

1. To mitigate for the loss of 0.493-acre of permanent impacts to wetlands, you shall purchase 0.493-acre of vernal pool creation credits at Stillwater Plain Mitigation Bank. Evidence of this purchase shall be provided to this office prior to proceeding with any activity otherwise authorized by this permit.
2. To mitigate for the loss of 0.906-acre of indirect impacts to wetlands, you shall purchase 1.812-acre of vernal pool preservation credits at Dove Ridge Mitigation Bank. Evidence of this purchase shall be provided to this office prior to proceeding with any activity otherwise authorized by this permit.

3. To compensate for the temporary loss of 0.010-acre of other waters of the United States, you shall restore at least 0.010-acre of seasonal ditches and culverts adjacent to the modified roadway. The ditches and culverts shall be designed to the approximate current dimensions and shall be vegetated with native seed mix.

4. To mitigate project impacts to the aquatic resources and associated habitats, you shall employ protective mats or other barriers under heavy equipment, while operating in wetlands, mudflats, and vernal pools. You shall implement all other measures necessary, in order to protect the topography, hydrology, and vegetation in such habitats.

5. This Corps permit does not authorize you to take an endangered species, in particular giant garter snake (*Thamnophis gigas*), vernal pool fairy shrimp (*Branchinecta lynchi*), vernal pool tadpole shrimp (*Lepidurus packardii*), valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*), Butte County meadowfoam (*Limnathes floccose* ssp. *Californica*), or designated critical habitat. In order to legally take a listed species, you must have separate authorization under the Endangered Species Act (e.g., an Endangered Species Act Section 10 permit, or a Biological Opinion under Endangered Species Act Section 7, with "incidental take" provisions with which you must comply). The enclosed Fish and Wildlife Service Biological Opinion (Number 81420-2008-F-0104-2, dated February 3, 2009), contains mandatory terms and conditions to implement the reasonable and prudent measures that are associated with "incidental take" that is also specified in the Biological Opinion. Your authorization under this Corps permit is conditional upon your compliance with all of the mandatory terms and conditions associated with "incidental take" of the attached Biological Opinion, which terms and conditions are incorporated by reference in this permit. Failure to comply with the terms and conditions associated with incidental take of the Biological Opinion, where a take of the listed species occurs, would constitute an unauthorized take, and it would also constitute non-compliance with your Corps permit. The Fish and Wildlife Service is the appropriate authority to determine compliance with the terms and conditions of its Biological Opinion, and with the Endangered Species Act. The permittee must comply with all conditions of this Biological Opinion, including those ascribed to the Corps.

6. You shall have a qualified biologist, who is aware of the locations of all waters of the United States within the project boundary monitor construction activities. The monitor shall ensure no unauthorized activities occur within avoided waters. The monitor shall have the authority to stop work immediately if any unauthorized fill occurs in waters of the United States, including wetlands. In the event of an unauthorized fill, our office shall be contacted immediately.

7. You shall follow the specifications and standards described in the Storm Water Pollution Prevention Plan (SWPPP) and/or Water Pollution Control Plan (WPCP), to prevent erosion and sedimentation during and after construction. Construction work within Deadhorse Slough and associated wetlands shall be conducted during periods of low flow (typically June 1-October 30), outside the rainy season work window.

8. You shall employ Best Management Practices (BMP's) to avoid and minimize environmental impacts. Temporary fills must be removed in their entirety and the affected areas returned to preconstruction elevations and conditions. The affected areas must be re-vegetated with a native seed mix.

9. You shall design and construct all crossings of waters of the United States to retain a natural substrate, and to accommodate all reasonably foreseeable expected high flows.

10. All equipment staging, including Temporary Construction Areas (TCA's), shall take place within approved areas within the project boundary. Prior to construction implementation, you shall ensure all equipment staging, TCA's, demolition and disposal, excavation, off pavement detours, and borrow and fill areas, have been evaluated under National Environmental Policy Act (NEPA), Section 401 and 404 of the Clean Water Act, Section 7 of the Endangered Species Act and Section 106 of the National Historical Preservation Act and all required permits have been obtained.

11. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register.

12. You must allow representatives from the Corps of Engineers to inspect the authorized activity and any avoidance areas at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

13. To document pre-and post-project construction conditions, you shall submit numbered and dated photos of the waters (including both the temporary and permanently impacted areas) within the project site prior to project implementation and post-construction photos of the same areas within 30 days after project completion.

14. To prevent unauthorized fills and unforeseen impacts, you shall, prior to proceeding with any activity otherwise authorized by this permit, install fencing and appropriate signage around the entire perimeter of avoided waters of the U.S. within the project area. All fencing surrounding avoidance areas shall allow unrestricted visibility of these areas to discourage vandalism, destruction or disturbance. An example of fencing includes chain link or similar type.

15. You must sign the enclosed Compliance Certification and return it to this office within 30 days after completion of the authorized work.

This verification is valid for two years from the date of this letter or until the Nationwide Permit is modified, reissued, or revoked, whichever comes first. Failure to comply with the General Conditions of this Nationwide Permit, or the project-specific Special Conditions of this authorization, may result in the suspension or revocation of your authorization.

We appreciate your feedback. At your earliest convenience, please tell us how we are doing by completing the customer survey on our website at <http://per2.nwp.usace.army.mil/survey.html>.

Please refer to identification number SPK-2007-01149 in any correspondence concerning this project. If you have any questions, please contact Ms. Leah Fisher at our California North Branch Office, 1325 J Street, Room 1480, Sacramento, California 95814-2922 email [leah.m.fisher@usace.army.mil](mailto:leah.m.fisher@usace.army.mil), or telephone 916-557-6639. You may also use our website: [www.spk.usace.army.mil/regulatory.html](http://www.spk.usace.army.mil/regulatory.html).

Sincerely,

ORIGINAL SIGNED

Nancy A. Haley  
Chief, California North Branch

Enclosures

Copy Furnished without enclosures:

Mr. Peter Cross, U.S. Fish and Wildlife Service, Endangered Species Division, 2800 Cottage Way, Suite W2605, Sacramento, California 95825-3901

Ms. Sandy Morey, California Department of Fish and Game, 1701 Nimbus Road, Rancho Cordova, California 95670-4504

Mr. Bill Orme, Water Quality Certification Unit, State Water Resources Control Board, 1001 I Street, Sacramento, California 95814-2828

Mr. Jay Punia, Central Valley Flood Protection Board, 3310 El Camino Avenue, Room LL40, Sacramento, California 95821

FISHER/dd

HALEY

COMPLIANCE CERTIFICATION

Permit File Number: SPK-2007-01149, SR32 Widening Project

Nationwide Permit Number: 14, Linear Transportation Projects

Permittee:  
Mr. Bob Greenlaw  
City of Chico  
Capital Project Services Department  
Engineering Division  
411 Main Street, P.O. Box 3420  
Chico, CA 95927

County: Yuba

Date of Verification: July 6, 2009

Within 30 days after completion of the activity authorized by this permit, sign this certification and return it to the following address:

U.S. Army Corps of Engineers  
Regulatory Division  
California North Branch  
1325 J Street, Room 1480  
Sacramento, California 95814-2922  
FAX 916-557-6877

Please note that your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with the terms and conditions of the permit your authorization may be suspended, modified, or revoked. If you have any questions about this certification, please contact the Corps of Engineers.

\* \* \* \* \*

I hereby certify that the work authorized by the above-referenced permit, including all the required mitigation, was completed in accordance with the terms and conditions of the permit verification.

\_\_\_\_\_  
Signature of Permittee

\_\_\_\_\_  
Date





DEPARTMENT OF THE ARMY  
U.S. ARMY ENGINEER DISTRICT, SACRAMENTO  
CORPS OF ENGINEERS  
1325 J STREET  
SACRAMENTO CA 95814-2922

RECEIVED

AUG 16 2011

REPLY TO  
ATTENTION OF

August 10, 2011

Regulatory Division (SPK-2007-01149)

Mr. Bob Greenlaw  
City of Chico  
411 Main Street, Second Floor  
Chico, California 95928-5439

Dear Mr. Greenlaw:

We are responding to your March 24, 2011, request for a Department of the Army permit to continue the phases of the State Route 32 Widening project. This approximately 115-acre project involves activities, including discharges of dredged or fill material, in waters of the United States to widen and improve approximately 2.6 miles of State Route 32. The project is located on or near Deadhorse Slough, Section 25, Township 22 North, Range 1 East, Mount Diablo Meridian, Latitude 39.7379554371563°, Longitude -121.812371670664°, Butte County, California.

Based on the information you provided, the proposed activity in approximately 1.409-acres of waters of the United States is authorized by Nationwide Permit Number 14, Linear Transportation Projects. The proposed impacts associated with this work include; approximately 0.493-acre of permanent impacts, 0.01-acre of temporary impacts, and 0.906-acre of indirect impacts to waters of the United States. Your work must comply with the general terms and conditions listed on the enclosed Nationwide Permit information sheets and the following special conditions:

1. To mitigate for the loss of 0.493-acre of permanent impacts to wetlands, you shall purchase 0.493-acre of vernal pool creation credits at Stillwater Plain Mitigation Bank. Evidence of this purchase shall be provided to this office prior to proceeding with any activity otherwise authorized by this permit.
2. To mitigate for the loss of 0.906-acre of indirect impacts to wetlands, you shall purchase 1.812-acre of vernal pool preservation credits at Dove Ridge Mitigation Bank. Evidence of this purchase shall be provided to this office prior to proceeding with any activity otherwise authorized by this permit.
3. To compensate for the temporary loss of 0.010-acre of other waters of the United States, you shall restore at least 0.010-acre of seasonal ditches and culverts adjacent to the modified roadway. The ditches and culverts shall be designed to the approximate current dimensions and shall be vegetated with native seed mix.

4. To mitigate project impacts to the aquatic resources and associated habitats, you shall employ protective mats or other barriers under heavy equipment, while operating in wetlands, mudflats, and vernal pools. You shall implement all other measures necessary, in order to protect the topography, hydrology, and vegetation in such habitats.

5. This Corps permit does not authorize you to take an endangered species, in particular giant garter snake (*Thamnophis gigas*), vernal pool fairy shrimp (*Branchinecta lynchi*), vernal pool tadpole shrimp (*Lepidurus packardii*), valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*), Butte County meadowfoam (*Limnathes floccose* ssp. *Californica*), or designated critical habitat. In order to legally take a listed species, you must have separate authorization under the Endangered Species Act (e.g., an Endangered Species Act Section 10 permit, or a Biological Opinion under Endangered Species Act Section 7, with "incidental take" provisions with which you must comply). The enclosed Fish and Wildlife Service Biological Opinion (Number 81420-2008-F-0104-2, dated February 3, 2009), contains mandatory terms and conditions to implement the reasonable and prudent measures that are associated with "incidental take" that is also specified in the Biological Opinion. Your authorization under this Corps permit is conditional upon your compliance with all of the mandatory terms and conditions associated with "incidental take" of the attached Biological Opinion, which terms and conditions are incorporated by reference in this permit. Failure to comply with the terms and conditions associated with incidental take of the Biological Opinion, where a take of the listed species occurs, would constitute an unauthorized take, and it would also constitute non-compliance with your Corps permit. The Fish and Wildlife Service is the appropriate authority to determine compliance with the terms and conditions of its Biological Opinion, and with the Endangered Species Act. The permittee must comply with all conditions of this Biological Opinion, including those ascribed to the Corps.

6. You shall have a qualified biologist, who is aware of the locations of all waters of the United States within the project boundary monitor construction activities. The monitor shall ensure no unauthorized activities occur within avoided waters. The monitor shall have the authority to stop work immediately if any unauthorized fill occurs in waters of the United States, including wetlands. In the event of an unauthorized fill, our office shall be contacted immediately.

7. You shall follow the specifications and standards described in the Storm Water Pollution Prevention Plan (SWPPP) and/or Water Pollution Control Plan (WPCP), to prevent erosion and sedimentation during and after construction. Construction work within Deadhorse Slough and associated wetlands shall be conducted during periods of low flow (typically June 1-October 30), outside the rainy season work window.

8. You shall employ Best Management Practices (BMP's) to avoid and minimize environmental impacts. Temporary fills must be removed in their entirety and the affected areas returned to preconstruction elevations and conditions. The affected areas must be re-vegetated with a native seed mix.

9. You shall design and construct all crossings of waters of the United States to retain a natural substrate, and to accommodate all reasonably foreseeable expected high flows.

10. All equipment staging, including Temporary Construction Areas (TCA's), shall take place within approved areas within the project boundary. Prior to construction implementation, you shall ensure all equipment staging, TCA's, demolition and disposal, excavation, off pavement detours, and borrow and fill areas, have been evaluated under National Environmental Policy Act (NEPA), Section 401 and 404 of the Clean Water Act, Section 7 of the Endangered Species Act and Section 106 of the National Historical Preservation Act and all required permits have been obtained.

11. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register.

12. You must allow representatives from the Corps of Engineers to inspect the authorized activity and any avoidance areas at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

13. To document pre-and post-project construction conditions, you shall submit numbered and dated photos of the waters (including both the temporary and permanently impacted areas) within the project site prior to project implementation and post-construction photos of the same areas within 30 days after project completion.

14. To prevent unauthorized fills and unforeseen impacts, you shall, prior to proceeding with any activity otherwise authorized by this permit, install fencing and appropriate signage around the entire perimeter of avoided waters of the U.S. within the project area. All fencing surrounding avoidance areas shall allow unrestricted visibility of these areas to discourage vandalism, destruction or disturbance. An example of fencing includes chain link or similar type.

15. You must sign the enclosed Compliance Certification and return it to this office within 30 days after completion of the authorized work.

This verification is valid until March 18, 2012, when the existing Nationwide Permits are scheduled to be modified, reissued, or revoked. It is incumbent upon you to remain informed of changes to the NWP. We will issue a public notice when the NWP are reissued. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant NWP is modified or revoked, you will have twelve (12) months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this nationwide permit. Failure to comply with the General Conditions of this Nationwide Permit, or the project-specific Special Conditions of this authorization, may result in the suspension or revocation of your authorization.

We appreciate your feedback. At your earliest convenience, please tell us how we are doing by completing the customer survey on our website under *Customer Service Survey*.

Please refer to identification number SPK-2007-01149 in any correspondence concerning this project. If you have any questions, please contact Eileen Imamura at 650 Capitol Mall, Suite 5-200, Sacramento, California 95814-4708, email [Eileen.R.Imamura@usace.army.mil](mailto:Eileen.R.Imamura@usace.army.mil), or telephone 916-557-5262. For more information regarding our program, please visit our website at [www.spk.usace.army.mil/regulatory.html](http://www.spk.usace.army.mil/regulatory.html).

Sincerely,

ORIGINAL SIGNED

Nancy A. Haley  
Chief, California North Branch

Enclosures

Copy furnished without enclosures:

- 7 Ms. Christy Dawson, Senior Regulatory Biologist, Gallaway Consulting, 111 Mission Ranch Blvd, Suite 100, Chico, California 95926-2267
- Mr. Peter Cross, U.S. Fish and Wildlife Service, Endangered Species Division, 2800 Cottage Way, Suite W2605, Sacramento, California 95825-3901
- Ms. Sandy Morey, California Department of Fish and Game, 1701 Nimbus Road, Rancho Cordova, California 95670-4504
- Mr. Bill Orme, Water Quality Certification Unit, State Water Resources Control Board, 1001 I Street, Sacramento, California 95814-2828
- Mr. Jay Punia, Central Valley Flood Protection Board, 3310 El Camino Avenue, Room LL40, Sacramento, California 95821-6340



North Central Region  
1701 Nimbus Road, Suite A  
Rancho Cordova, CA 95670-4599  
916-358-2900  
<http://www.dfg.ca.gov>

RECEIVED

SEP 30 2010

CITY OF CHICO  
BDSO / CPSD

September 23, 2010

City of Chico  
Bob Greenlaw  
411 Main Street, 2nd Floor  
Chico, CA 95927

Subject: Final Lake or Streambed Alteration Agreement  
Notification No. 1600-2010-0122 -R2  
State Route 32 Road Widening Project

Dear Mr. Greenlaw:

Enclosed is the final Streambed Alteration Agreement ("Agreement") for the State Route 32 Road Widening Project ("Project"). Before the Department of Fish and Game ("Department") may issue an Agreement, it must comply with the California Environmental Quality Act ("CEQA"). In this case, the Department, acting as a responsible agency, filed a notice of determination ("NOD") on the same date it signed the Agreement. The NOD was based on information contained in the State Route 32 Road Widening Project Final Environmental Impact Report the City of Chico (lead agency) prepared for the Project.

Under CEQA, filing a NOD starts a 30-day period within which a party may challenge the filing agency's approval of the project. You may begin your project before the 30-day period expires if you have obtained all necessary local, state, and federal permits or other authorizations. However, if you elect to do so, it will be at your own risk.

If you have any questions regarding this matter, please contact Gary Hobgood, Staff Environmental Scientist at 916-983-6920 or [ghobgood@dfg.ca.gov](mailto:ghobgood@dfg.ca.gov).

Sincerely,

Kent Smith  
Regional Manager

cc: Brooks Taylor  
Gallaway Consulting, Inc.

[btaylor@gallawayconsulting.net](mailto:btaylor@gallawayconsulting.net)

Gary Hobgood

[ghobgood@dfg.ca.gov](mailto:ghobgood@dfg.ca.gov)

**CALIFORNIA DEPARTMENT OF FISH AND GAME**  
NORTH CENTRAL REGION  
1701 NIMBUS ROAD, SUITE A  
RANCHO CORDOVA, CA 95670



Streambed Alteration Agreement  
Notification No. 1600-2010-0122 -R2  
Dead Horse Slough, South Fork Dead Horse Slough  
City of Chico, Capital Project Services Department  
State Route 32 Road Widening Project

This Streambed Alteration Agreement (Agreement) is entered into between the California Department of Fish and Game (DFG) and City of Chico (Permittee) as represented by Bob Greenlaw.

## **RECITALS**

WHEREAS, pursuant to Fish and Game Code (FGC) section 1602, Permittee notified DFG on July 28, 2010 that Permittee intends to complete the project described herein.

WHEREAS, pursuant to FGC section 1603, DFG has determined that the project could substantially adversely affect existing fish or wildlife resources and has included measures in the Agreement necessary to protect those resources.

WHEREAS, Permittee has reviewed the Agreement and accepts its terms and conditions, including the measures to protect fish and wildlife resources.

NOW THEREFORE, Permittee agrees to complete the project in accordance with the Agreement.

## **PROJECT LOCATION**

The project is located at Dead Horse Slough, South Fork Dead Horse Slough and four unnamed ephemeral streams, in the County of Butte, State of California; Latitude 39.737182, Longitude -122.8169069.

## **PROJECT DESCRIPTION**

The proposed project will widen and improve approximately 2.6 miles of SR 32, beginning at the southbound SR 99 ramps at the west end of the project corridor and extending 1,400 feet east past Yosemite Drive. State Route 32 will be widened from two to three lanes in each direction from the east side of the SR 99 interchange to just east of Fir Street. The roadway will then be widened from two to four lanes (two in each direction) from Fir Street to 1,400 ft east of Yosemite Drive, where the roadway width will transition down from four lanes to the existing two lanes.

The existing structure at Dead Horse Slough will be widened to the north to accommodate the additional traffic lanes and widened shoulders. The existing structure is a four span reinforced concrete slab that is 123.5 feet long and 32.5 feet wide. The

structure will be widened by 49 feet; the new structure width will be 81.5 feet. The railings on the existing structure will be upgraded to current standards. The structure widening will be constructed in one phase, with the new bridge constructed to the north and joined to the existing structure with a closure pour. Both the existing and proposed abutments will be protected from scour with rock slope protection. A Location Hydraulic Study has been completed, and the existing bridge exceeds Caltrans freeboard requirements. If there is water present within the channel, dewatering will be required when the concrete is poured for the piles. However, the bridge will be constructed in the summer months when the channel will be dry.

The existing 6 ft x 8 ft box culvert on South Fork Dead Horse Slough just east of Bruce Road will either be lengthened or replaced to accommodate the roadway widening. Additionally, four smaller culverts which support unnamed ephemeral streams will be lengthened to accommodate the road widening.

A detailed project description is provided in the notification materials submitted to DFG. The notification, together with all supporting documents submitted with the notification, including the 65% construction plan set, the **State Route 32 Widening Project Final Environmental Impact Report** (including the Mitigation Monitoring Program), dated May 2010, the **State Route 32 Widening Project Natural Environment Study**, dated November 2006, the State Route Mitigation sales agreement, **California Regional Water Quality Control Board Central Valley Region - Section 401 Water Quality Certification Application Form**, dated July 12, 2010, the **Biological Opinion** (Service file No. 81420-2008-F-0104-2) issued by the U.S. Fish and Wildlife Service and the **California Endangered Species Act Consistency Determination No. 2080-2010-039-02** is hereby incorporated into this agreement to describe the location, features, avoidance measures and mitigation measures of the proposed project.

## PROJECT IMPACTS

Existing fish or wildlife resources the project could substantially adversely affect include: Butte County meadowfoam, vernal pool invertebrates, giant garter snake, valley elderberry longhorn beetle, Chinook salmon, Central Valley Steelhead trout, Western Pond Turtle; cliff swallows; warm water fish species, amphibians, and other aquatic and terrestrial plant and wildlife species.

The adverse effects the project could have on the fish or wildlife resources identified above include: loss of natural bed or bank; relocation of stream channel; change in contour of bed, channel or bank; change in gradient of bed, channel or bank; change in channel cross-section (confinement or widening); loss of bank stability during construction; increase of bank erosion during construction; change in composition of channel materials (Large Woody Debris or substrate particle size); soil compaction or other disturbance to soil layer; debris transport impedance (from culverts and bridges); increased turbidity; short-term release of contaminants (e.g., incidental from construction); loss or decline of riparian and/or emergent marsh habitat; loss or decline of instream woody material; change to, or loss or decline of natural bed substrate; construction pits and trenches that can capture terrestrial organisms; disruption to

nesting birds and other wildlife: direct take of terrestrial species; disturbance from project activity; to migration corridors, loss of wildlife connectivity to water source; loss or impediment of terrestrial animal species travel routes due to permanent structures; or loss or impediment of terrestrial animal species travel routes due to temporary structures (e.g., survey tape, sandbags, erosion protection materials etc.).

## **STREAM ZONE DEFINED**

The Stream Zone comprises all components of a stream, including the channel, bed, banks, and floodplains. The Stream Zone is the land, including vegetation, that bounds a lake or the channel of a stream and that defines the lateral extent of their waters.

## **MEASURES TO PROTECT FISH AND WILDLIFE RESOURCES**

### **1. Administrative Measures**

Permittee shall meet each administrative requirement described below.

- 1.1 Documentation at Project Site. Permittee shall make the Agreement, any extensions and amendments to the Agreement, and all related notification materials and California Environmental Quality Act (CEQA) documents, readily available at the project site at all times and shall be presented to DFG personnel, or personnel from another state, federal, or local agency upon request.
- 1.2 Providing Agreement to Persons at Project Site. Permittee shall provide copies of the Agreement and any extensions and amendments to the Agreement to all persons who will be working on the project at the project site on behalf of Permittee, including but not limited to contractors, subcontractors, inspectors, and monitors.
- 1.3 Notification of Conflicting Provisions. Permittee shall notify DFG if Permittee determines or learns that a provision in the Agreement might conflict with a provision imposed on the project by another local, state, or federal agency. In that event, DFG shall contact Permittee to resolve any conflict.
- 1.4 Project Site Entry. Permittee agrees that DFG personnel may enter the project site to verify compliance with the Agreement. DFG personnel may only enter the project site when it is safe to do so. When appropriate, DFG personnel shall contact the Permittee prior to entering the construction area.
- 1.5 Authorized Work. The notification, together with all supporting documents submitted with the notification, is hereby incorporated into this agreement to describe the location and features of the proposed project. The Permittee agrees that all work shall be done as described in the notification and supporting documents, incorporating all project modifications, wildlife resource protection features, mitigation measures, and provisions as described in this agreement.

Where apparent conflicts exist between the notification and the provisions listed in this agreement, the Permittee shall comply with the provisions listed in this agreement. The Permittee further agrees to notify DFG of any modifications made to the project plans submitted to DFG. At the discretion of DFG, this agreement will be amended to accommodate modifications to the project plans submitted to DFG and/or new project activities.

## **2. Avoidance and Minimization Measures**

To avoid or minimize adverse impacts to fish and wildlife resources identified above, Permittee shall implement each measure listed below.

- 2.1 Work Period. Except as provided below, the time period for completing the work within the stream zone shall be restricted to periods of low stream flow and dry weather and shall be confined to the period of May 1 to October 1. Construction activities shall be timed with awareness of precipitation forecasts and likely increases in stream flow. Construction activities within the stream zone shall cease until all reasonable erosion control measures, inside and outside of the stream zone, have been implemented prior to all storm events. Revegetation, restoration and erosion control work is not confined to this time period. This provision does not apply to work on the roadway and the bridge deck above the stream zone. The work period may be extended as conditioned in provision 2.2 below.
- 2.2 Work Period Extensions. At DFG's discretion, the work period may be extended based on the extent of the work remaining, on site conditions and reasonably anticipated future conditions. If the Permittee finds more time is needed to complete the authorized activity, the Permittee shall submit a written request for a work period time extension to DFG. The work period extension request shall provide the following information: 1) Describe the extent of work already completed; 2) Provide specific detail of the activities that remain to be completed within the stream zone; and 3) Detail the actual time required to complete each of the remaining activities within the stream zone. The work period extension request should consider the effects of increased stream conditions, rain delays, increased erosion control measures, limited access due to saturated soil conditions, and limited growth of erosion control grasses due to cool weather. Photographs of the work completed and the proposed work areas are helpful in assisting DFG in its evaluation. Time extensions are issued at the discretion of DFG. DFG will have ten calendar days to approve the proposed work period extension. DFG reserves the right to require additional measures designed to protect natural resources.
- 2.3 Stream Diversions / Dewatering. Work in the flowing stream is not anticipated. If work in the flowing stream is required, the Permittee must submit a "clean water" diversion plan to DFG. DFG will review the proposed water diversion method. DFG will have ten calendar days to approve the plan or provide the requirements for that approval. If DFG does not respond within 10 days, the plan shall be automatically approved.

- 2.4 Bird Nests. It is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird except as otherwise provided by the Fish and Game Code. No trees that contain active nests of birds shall be disturbed until all eggs have hatched and young birds have fledged without prior consultation and approval of a Department representative. It is recommended that the trees that are identified for removal, be removed during the non-nesting period of September 16 to February 28. If tree removal must occur during the period of March 1 and September 15, a qualified biologist shall conduct a pre-construction survey for bird nests or nesting activity within 500 feet of the project area. If any active nests or nesting behaviors are found, the Department must be notified prior to further action. The Permittee may be required to create exclusion zones of 75 to 500 feet depending on the species observed. The exclusion zone must be maintained until birds have fledged or nest is abandoned. The survey results shall be provided to the Department prior to removing any trees.
- 2.5 Cliff Swallows. No active cliff swallow nests shall be disturbed until all eggs have hatched and young birds have fledged without prior consultation and approval of a Department representative. If swallow nesting is likely, the Permittee shall submit for review and approval a Cliff Swallow Management Plan. The Cliff Swallow Management plan should be submitted for review well before the start of swallow breeding activity (mid-March). The Cliff Swallow Management plan should consider the use of netting and/or daily removal of nest material with high-pressure water spray. DFG will have ten calendar days to approve the Cliff Swallow Management plan. If DFG does not reply within ten days, the Cliff Swallow Management plan shall be implemented as submitted.
- 2.6 Vegetation Removal. Disturbance or removal of vegetation shall not exceed the minimum necessary to complete operations. Except for the trees specifically identified for removal in the notification, no native trees with a trunk diameter at breast height (DBH) in excess of four (4) inches shall be removed or damaged without prior consultation and approval of a Department representative. Using hand tools (clippers, chain saw, etc.), trees may be trimmed to the extent necessary to gain access to the work sites. All cleared material/vegetation shall be removed out of the riparian/stream zone.
- 2.7 Butte County Meadowfoam, Minimization, Mitigation, and Monitoring Measures.

Permittee shall install visible protective wildlife safe construction fencing to protect environmentally protected area on the project site where construction equipment and personnel shall be excluded to protect vernal pool habitat. The fencing shall be monitored daily and kept in good working condition for the duration of the Project;

Permittee has purchased 0.917 acres of BCM mitigation credits, from the Dove Ridge Mitigation Bank, Butte County, for temporary impacts to 0.183 acre of indirect impacts and 0.0001 acre of direct impacts (1 plant) to BCM;

Following construction, Permittee shall return each site to pre-Project conditions, remove all construction debris (including protective fencing, barriers, flagging, and construction mats), and reseed each site with an approved erosion control seed mix as needed as prescribed in a Service and DFG-approved plan.

- 2.8 Sediment Control. Precautions to minimize turbidity/siltation shall be taken into account during project planning and implementation. This may require the placement of silt fencing, coir logs, coir rolls, straw bale dikes, or other siltation barriers so that silt and/or other deleterious materials are not allowed to pass to downstream reaches. Passage of sediment beyond the sediment barrier(s) is prohibited. If any sediment barrier fails to retain sediment, corrective measures shall be taken. The sediment barrier(s) shall be maintained in good operating condition throughout the construction period and the following rainy season. Maintenance includes, but is not limited to, removal of accumulated silt and/or replacement of damaged silt fencing, coir logs, coir rolls, and/or straw bale dikes. The Permittee is responsible for the removal of non-biodegradable silt barriers (such as plastic silt fencing) after the disturbed areas have been stabilized with erosion control vegetation (usually after the first growing season). Upon Department determination that turbidity/siltation levels resulting from project related activities constitute a threat to aquatic life, activities associated with the turbidity/siltation shall be halted until effective Department approved control devices are installed or abatement procedures are initiated.
- 2.9 Pollution Control. Utilize Best Management Practices (BMPs) to prevent spills and leaks into water bodies. If maintenance or refueling of vehicles or equipment must occur on-site, use a designated area and/or a secondary containment, located away from drainage courses to prevent the runoff of storm water and the runoff of spills. Ensure that all vehicles and equipment are in good working order (no leaks). Place drip pans or absorbent materials under vehicles and equipment when not in use. Ensure that all construction areas have proper spill clean up materials (absorbent pads, sealed containers, booms, etc.) to contain the movement of any spilled substances. Any other substances which could be hazardous to aquatic life, resulting from project related activities, shall be prevented from contaminating the soil and/or entering the waters of the state. Any of these materials, placed within or where they may enter a stream or lake by the Applicant or any party working under contract or with the permission of the Permittee, shall be removed immediately. DFG shall be notified immediately by the Permittee of any spills and shall be consulted regarding clean-up procedures.

### **3. Compensatory Measures**

To compensate for adverse impacts to fish and wildlife resources identified above that cannot be avoided or minimized, Permittee shall implement each measure listed below.

- 3.1 Site Restoration. All exposed/disturbed areas and access points within the stream zone left barren of vegetation as a result of the construction activities shall be

restored using locally native grass seeds, locally native grass plugs and/or a mix of quick growing sterile non-native grass with locally native grass seeds. Seeded areas shall be covered with broadcast straw and/or jute netted (monofilament erosion blankets are not authorized).

#### **4. Reporting Measures**

Permittee shall meet each reporting requirement described below.

- 4.1 The Permittee shall notify DFG within two working days of beginning work within the stream zone of Dead Horse Slough, South Fork Dead Horse Slough and four unnamed ephemeral streams. Notification shall be submitted as instructed in Contact Information section below. Email notification is preferred.
- 4.2 Upon completion of the project activities described in this agreement, the work area within the stream zone shall be digitally photographed. Photographs shall be submitted to DFG within two days of completion. Photographs and project commencement notification shall be submitted as instructed in Contact Information section below. Email submittal is preferred.

#### **CONTACT INFORMATION**

Any communication that Permittee or DFG submits to the other shall be in writing and any communication or documentation shall be delivered to the address below by U.S. mail, fax, or email, or to such other address as Permittee or DFG specifies by written notice to the other. Refer to the project's Notification Number when submitting documents to DFG.

To Permittee:

City of Chico  
Bob Greenlaw  
411 Main Street, 2nd Floor  
Chico, CA 95927

[bgreenla@ci.chico.ca.us](mailto:bgreenla@ci.chico.ca.us)

To DFG:

Department of Fish and Game  
North Central Region  
1701 Nimbus Road, Suite A  
Rancho Cordova, CA 95670  
Attn: Lake and Streambed Alteration Program – Gary L. Hobgood  
Notification #1600-2010-0122 R2  
Fax: 916-358-2912  
[ghobgood@dfg.ca.gov](mailto:ghobgood@dfg.ca.gov)

## **LIABILITY**

Permittee shall be solely liable for any violations of the Agreement, whether committed by Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents or contractors and subcontractors, to complete the project or any activity related to it that the Agreement authorizes.

This Agreement does not constitute DFG's endorsement of, or require Permittee to proceed with the project. The decision to proceed with the project is Permittee's alone.

## **SUSPENSION AND REVOCATION**

DFG may suspend or revoke in its entirety the Agreement if it determines that Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, is not in compliance with the Agreement.

Before DFG suspends or revokes the Agreement, it shall provide Permittee written notice by certified or registered mail that it intends to suspend or revoke. The notice shall state the reason(s) for the proposed suspension or revocation, provide Permittee an opportunity to correct any deficiency before DFG suspends or revokes the Agreement, and include instructions to Permittee, if necessary, including but not limited to a directive to immediately cease the specific activity or activities that caused DFG to issue the notice.

## **ENFORCEMENT**

Nothing in the Agreement precludes DFG from pursuing an enforcement action against Permittee instead of, or in addition to, suspending or revoking the Agreement.

Nothing in the Agreement limits or otherwise affects DFG's enforcement authority or that of its enforcement personnel.

## **OTHER LEGAL OBLIGATIONS**

This Agreement does not relieve Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, from obtaining any other permits or authorizations that might be required under other federal, state, or local laws or regulations before beginning the project or an activity related to it.

This Agreement does not relieve Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, from complying with other applicable statutes in the FGC including, but not limited to, FGC sections 2050 et seq. (threatened and endangered species), 3503 (bird nests and eggs), 3503.5 (birds of prey), 5650 (water pollution), 5652 (refuse

disposal into water), 5901 (fish passage), 5937 (sufficient water for fish), and 5948 (obstruction of stream).

The Permittee shall notify DFG where conflicts exist between the provisions of this agreement and those imposed by other regulatory agencies. Unless otherwise notified, the Permittee shall comply with the provision that offers the greatest protection to water quality, species of special concern and/or critical habitat.

Nothing in the Agreement authorizes Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, to trespass.

## **AMENDMENT**

DFG may amend the Agreement at any time during its term, provided the amendment is mutually agreed to in writing by Permittee and DFG.

Permittee may amend the Agreement at any time during its term, provided the amendment is mutually agreed to in writing by DFG and Permittee. To request an amendment, Permittee shall submit to DFG a completed DFG "Request to Amend Lake or Streambed Alteration" form and include with the completed form payment of the corresponding amendment fee identified in DFG's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5).

## **TRANSFER AND ASSIGNMENT**

This Agreement may not be transferred or assigned to another entity, and any purported transfer or assignment of the Agreement to another entity shall not be valid or effective, unless the transfer or assignment is requested by Permittee in writing, as specified below, and thereafter DFG approves the transfer or assignment in writing.

The transfer or assignment of the Agreement to another entity shall constitute a minor amendment, and therefore to request a transfer or assignment, Permittee shall submit to DFG a completed DFG "Request to Amend Lake or Streambed Alteration" form and include with the completed form payment of the minor amendment fee identified in DFG's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5).

## **EXTENSIONS**

In accordance with FGC section 1605(b), Permittee may request one extension of the Agreement, provided the request is made prior to the expiration of the Agreement's term. To request an extension, Permittee shall submit to DFG a completed DFG "Request to Extend Lake or Streambed Alteration" form and include with the completed form payment of the extension fee identified in DFG's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5). DFG shall process the extension request in accordance with FGC 1605(b) through (e).

If Permittee fails to submit a request to extend the Agreement prior to its expiration, Permittee must submit a new notification and notification fee before beginning or continuing the project the Agreement covers (Fish & G. Code, § 1605, subd. (f)).

### **EFFECTIVE DATE**

The Agreement becomes effective on the date of DFG's signature, which shall be: 1) after Permittee's signature; 2) after DFG complies with all applicable requirements under the California Environmental Quality Act (CEQA); and 3) after payment of the applicable FGC section 711.4 filing fee listed at [http://www.dfg.ca.gov/habcon/ceqa/ceqa\\_changes.html](http://www.dfg.ca.gov/habcon/ceqa/ceqa_changes.html).

### **TERM**

This Agreement shall expire 5 years from the date the agreement has been signed by both parties, unless it is terminated or extended before then. All provisions in the Agreement shall remain in force throughout its term. Permittee shall remain responsible for implementing any provisions specified herein to protect fish and wildlife resources after the Agreement expires or is terminated, as FGC section 1605(a)(2) requires.

## AUTHORITY

If the person signing the Agreement (signatory) is doing so as a representative of Permittee, the signatory hereby acknowledges that he or she is doing so on Permittee's behalf and represents and warrants that he or she has the authority to legally bind Permittee to the provisions herein.

## AUTHORIZATION

This Agreement authorizes only the project described herein. If Permittee begins or completes a project different from the project the Agreement authorizes, Permittee may be subject to civil or criminal prosecution for failing to notify DFG in accordance with FGC section 1602.

## CONCURRENCE

The undersigned accepts and agrees to comply with all provisions contained herein.

FOR CITY OF CHICO



Bob Greenlaw

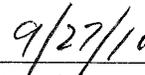


Date

FOR DEPARTMENT OF FISH AND GAME



Kent Smith  
Regional Manager



Date

Prepared by: Gary L. Hobgood  
Staff Environmental Scientist

**CENTRAL VALLEY FLOOD PROTECTION BOARD**

3310 El Camino Ave., Rm. 151  
SACRAMENTO, CA 95821  
(916) 574-0609 FAX: (916) 574-0682  
PERMITS: (916) 574-0685 FAX: (916) 574-0682

**RECEIVED**

NOV 05 2010

CITY OF CHICO  
BDSD / CPSD

NOV 4 2010

Permit No. 18632 BD

City of Chico  
PO Box 3420  
c/o Bob Greenlaw  
Chico, California 95927

Enclosed is your approved Central Valley Flood Protection Board Encroachment Permit Conditions.

Under the Standard General Condition Four (4) of the permit, you are required to accomplish the work under direction and supervision of the Department of Water Resources; therefore, you must advise the Department at 3310 El Camino Avenue, Sacramento, California 95821, attention Lorraine Pendlebury, telephone (916) 574-0609, at least ten days prior to starting your project. An addressed postcard is enclosed for your convenience.

Please note that the permit grants the work proposed in your application. This permit, in addition to the twelve (12) standard conditions, includes special conditions, which may place limitations on or require modifications to your project. You are advised to read all conditions prior to starting the project. Commencing any work under this permit shall constitute an acceptance of the provisions of the permit and an agreement to perform accordingly. This permit does not relieve you from the responsibility for obtaining authorization from any State, local, or federal agencies for your proposed project.

Please refer to your permit number when communicating with this office. For further information, contact Michael Petersen at (916) 574-0685.

Sincerely,

Gary Lemon, Acting Chief  
Floodway Protection Section  
Central Valley Flood Protection Board

Enclosure

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
**THE CENTRAL VALLEY FLOOD PROTECTION BOARD**

PERMIT NO. 18632 BD

This Permit is issued to:

City of Chico  
PO Box 3420  
c/o Bob Greenlaw  
Chico, California 95927

To widen existing bridge by 49-feet to the north side, for a total width of 81-feet, the new section will be approximately 124-feet-long supported by two abutments and 3 piers, each consisting of 10 rows of 15-inch-diameter pre-stressed driven piles across Dead Horse Slough. The project is located in Chico on State Route 32 just east of Forest Avenue (Section 19&30, T22N, R2E, MDB&M, Dead Horse Slough, Butte County).

NOTE: Special Conditions have been incorporated herein which may place limitations on and/or require modification of your proposed project as described above.

(SEAL)

Dated: NOV 4 2010



Executive Officer

**GENERAL CONDITIONS:**

**ONE:** This permit is issued under the provisions of Sections 8700 – 8723 of the Water Code.

**TWO:** Only work described in the subject application is authorized hereby.

**THREE:** This permit does not grant a right to use or construct works on land owned by the Sacramento and San Joaquin Drainage District or on any other land.

**FOUR:** The approved work shall be accomplished under the direction and supervision of the State Department of Water Resources, and the permittee shall conform to all requirements of the Department and The Central Valley Flood Protection Board.

**FIVE:** Unless the work herein contemplated shall have been commenced within one year after issuance of this permit, the Board reserves the right to change any conditions in this permit as may be consistent with current flood control standards and policies of The Central Valley Flood Protection

Board.

**SIX:** This permit shall remain in effect until revoked. In the event any conditions in this permit are not complied with, it may be revoked on 15 days' notice.

**SEVEN:** It is understood and agreed to by the permittee that the start of any work under this permit shall constitute an acceptance of the conditions in this permit and an agreement to perform work in accordance therewith.

**EIGHT:** This permit does not establish any precedent with respect to any other application received by The Central Valley Flood Protection Board.

**NINE:** The permittee shall, when required by law, secure the written order or consent from all other public agencies having jurisdiction.

**TEN:** The permittee is responsible for all personal liability and property damage which may arise out of failure on the permittee's part to perform the obligations under this permit. If any claim of liability is made against the State of California, or any departments thereof, the United States of America, a local district or other maintaining agencies and the officers, agents or employees thereof, the permittee shall defend and shall hold each of them harmless from each claim.

**ELEVEN:** The permittee shall exercise reasonable care to operate and maintain any work authorized herein to preclude injury to or damage to any works necessary to any plan of flood control adopted by the Board or the Legislature, or interfere with the successful execution, functioning or operation of any plan of flood control adopted by the Board or the Legislature.

**TWELVE:** Should any of the work not conform to the conditions of this permit, the permittee, upon order of The Central Valley Flood Protection Board, shall in the manner prescribed by the Board be responsible for the cost and expense to remove, alter, relocate, or reconstruct all or any part of the work herein approved.

#### **SPECIAL CONDITIONS FOR PERMIT NO. 18632 BD**

**THIRTEEN:** All work approved by this permit shall be in accordance with the submitted drawings and specifications except as modified by special permit conditions herein. No further work, other than that approved by this permit, shall be done in the area without prior approval of the Central Valley Flood Protection Board.

**FOURTEEN:** The permittee shall maintain the permitted encroachment(s) and the project works within the utilized area in the manner required and as requested by the authorized representative of the Department of Water Resources or any other agency responsible for maintenance.

**FIFTEEN:** The permittee shall contact the Department of Water Resources by telephone, (916) 574-0609, and submit the enclosed postcard to schedule a preconstruction conference. Failure to do so at least 10 working days prior to start of work may result in delay of the project.

**SIXTEEN:** The permittee shall provide supervision and inspection services acceptable to the Central Valley Flood Protection Board. A professional engineer registered in the State of California shall certify that all work was inspected and performed in accordance with submitted drawings, specifications, and permit conditions.

**SEVENTEEN:** Upon completion of the project, the permittee shall submit as-built drawings to: Department of Water Resources, Flood Project Inspection Section, 3310 El Camino Avenue, Suite LL30, Sacramento, California 95821.

**EIGHTEEN:** The Central Valley Flood Protection Board and Department of Water Resources shall not be held liable for any damages to the permitted encroachment(s) resulting from flood fight, operation, maintenance, inspection, or emergency repair.

NINETEEN: The permittee may be required, at permittee's cost and expense, to remove, alter, relocate, or reconstruct all or any part of the permitted encroachment(s) if removal, alteration, relocation, or reconstruction is necessary as part of or in conjunction with any present or future flood control plan or project or if damaged by any cause. If the permittee does not comply, the Central Valley Flood Protection Board may remove the encroachment(s) at the permittee's expense.

TWENTY: The permittee should contact the U.S. Army Corps of Engineers, Sacramento District, Regulatory Branch, 1325 J Street, Sacramento, California 95814, telephone (916) 557-5250, as compliance with Section 10 of the Rivers and Harbors Act and/or Section 404 of the Clean Water Act may be required.

TWENTY-ONE: The permittee shall be responsible for repair of any damages to the project levee and other flood control facilities due to construction, operation, or maintenance of the proposed project.

TWENTY-TWO: The permittee is responsible for all liability associated with construction, operation, and maintenance of the permitted facilities and shall defend, indemnify, and hold the Central Valley Flood Protection Board and the State of California; including its agencies, departments, boards, commissions, and their respective officers, agents, employees, successors and assigns (collectively, the "State"), safe and harmless, of and from all claims and damages arising from the project undertaken pursuant to this permit, all to the extent allowed by law. The State expressly reserves the right to supplement or take over its defense, in its sole discretion

TWENTY-THREE: The permittee shall defend, indemnify, and hold the Central Valley Flood Protection Board and the State of California, including its agencies, departments, boards, commissions, and their respective officers, agents, employees, successors and assigns (collectively, the "State"), safe and harmless, of and from all claims and damages related to the Central Valley Flood Protection Board's approval of this permit, including but not limited to claims filed pursuant to the California Environmental Quality Act. The State expressly reserves the right to supplement or take over its defense, in its sole discretion.

TWENTY-FOUR: If the project, or any portion thereof, is to be abandoned in the future, the permittee or successor shall abandon the project under direction of the Central Valley Flood Protection Board and Department of Water Resources, at the permittee's or successor's cost and expense.

TWENTY-FIVE: No construction work of any kind shall be done during the flood season from November 1 to April 15 without prior approval of the Central Valley Flood Protection Board.

TWENTY-SIX: All cleared trees and brush shall be completely burned or removed from the floodway, and downed trees or brush shall not remain in the floodway during the flood season from November 1 to April 15.

TWENTY-SEVEN: No material stockpiles, temporary buildings, or equipment shall remain in the floodway during the flood season from November 1 to April 15.

TWENTY-EIGHT: The new bridge shall have at least the same waterway area and vertical clearance as the replaced bridge.

TWENTY-NINE: The soffit of the bridge shall be no lower than that of the replaced bridge.

THIRTY: Bridge piers and bents placed within the floodway to support a widened portion of an existing bridge shall be constructed in line with the existing bents and piers.

THIRTY-ONE: Temporary staging, formwork, stockpiled material, equipment, and temporary buildings shall not remain in the floodway during the flood season from November 1 to April 15.

THIRTY-TWO: Trees, brush, sediment, and other debris shall be kept cleared from the bridge site and disposed of outside the floodway to maintain the design flow capacity and flowage area.

THIRTY-THREE: All fencing, gates and signs removed during construction of this project shall be replaced in kind and at the original locations. If it is necessary to relocate any fence, gate or sign, the permittee is required to obtain written approval from the Central Valley Flood Protection Board prior to installation at a new location.

THIRTY-FOUR: All temporary fencing, gates and signs shall be removed upon completion of the project.

THIRTY-FIVE: Backfill material for excavations shall be placed in 4- to 6-inch layers and compacted to at least the density of the adjacent, firm, undisturbed material.

THIRTY-SIX: Density tests by a certified materials laboratory will be required to verify compaction of backfill within the floodway and channel banks.

THIRTY-SEVEN: The permittee shall be responsible for all damages due to settlement, consolidation, or heave from any construction-induced activities.

THIRTY-EIGHT: In the event existing revetment on the channel banks is disturbed or displaced, it shall be restored to its original condition upon completion of the proposed installation.

THIRTY-NINE: All debris generated by this project shall be disposed of outside the floodway.

FORTY: The work area shall be restored to the condition that existed prior to start of work.

FORTY-ONE: In the event that bank erosion or channel scour injurious to the adopted plan of flood control occurs at or adjacent to the permitted encroachment(s), the permittee shall repair the eroded area and propose measures, to be approved by the Central Valley Flood Protection Board, to prevent further erosion.

FORTY-TWO: If the permitted encroachments result(s) in an adverse hydraulic impact, the permittee shall provide appropriate mitigation measures, to be approved by the Central Valley Flood Protection Board, prior to implementation of mitigation measures.

FORTY-THREE: The mitigation measures approved by the CEQA lead agency and the permittee are found in its Mitigation Monitoring Program (MMP) adopted by the CEQA lead agency. The permittee shall implement all such mitigation measures.

FORTY-FOUR: A letter from the Department of the Army dated September 24, 2010, which is

attached to this permit as Exhibit A, is in reference to this project.

REPLY TO  
ATTENTION OF

DEPARTMENT OF THE ARMY  
U.S. Army Engineer District, Sacramento  
Corps of Engineers  
1325 J Street  
Sacramento, California 95814-2922

Flood Protection and Navigation Section (18632)

**SEP 24 2010**

Mr. Jay Punia, Executive Officer  
Central Valley Flood Protection Board  
3310 El Camino Avenue, Room 151  
Sacramento, California 95821

Dear Mr. Punia:

We have reviewed a permit application by the City of Chico (application number 18632). This project includes widening an existing bridge by 49 feet to the north side, for a total width of 81 feet. The new section will be approximately 124 feet long, supported by two abutments and 30 pre-stressed 15 inch diameter piles across Dead Horse Slough. The proposed project is located in Chico, on State Route 32 just east of Forest Avenue, at 39.7397°N 121.8030°W NAD83, Butte County, California.

The District Engineer has no comments or recommendations regarding flood control because the proposed work does not affect a federally constructed project.

A file (SPK-2010-01115) has been opened because a Section 10 and/or Section 404 permit may be required. Please advise the applicant to contact the U.S. Army Corps of Engineers, Sacramento District, Regulatory Division, 1325 J Street, Sacramento, California 95814, telephone (916) 557-5250.

A copy of this letter is being furnished to Mr. Don Rasmussen, Chief, Flood Project Integrity and Inspection Branch, 3310 El Camino Avenue, Suite LL30, Sacramento, CA 95821.

Sincerely,

A handwritten signature in black ink, appearing to read "Meegan G. Nagy". The signature is written in a cursive style and is enclosed within a hand-drawn oval.

Meegan G. Nagy, P.E.  
Chief, Flood Protection and Navigation Section

State Inspector should contact:

Permittee's Name \_\_\_\_\_ Telephone \_\_\_\_\_

Address \_\_\_\_\_

I am requesting a pre-construction meeting with an inspector under the approved Permit No. \_\_\_\_\_. I am also requesting a start date of \_\_\_\_\_ for the work under this permit.

\_\_\_\_\_  
Applicant's Signature

\_\_\_\_\_  
Date

PLACE  
STAMP  
HERE

DWR  
DIV OF FLOOD MGMT  
FPIS CHIEF  
3310 EL CAMINO AVE. STE 200  
SACRAMENTO CA 95821-6340



Attachment AA  
SWPPP Amendments





## 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 amendments.
- Attach a completed copy of the form to each approved 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 a Water Pollution Control Program, enter "WPCP" in this field.
- When the resident engineer has approved SWPPP or WPCP amendments, enter:
  1. The amendment number.
  2. The date.
  3. A brief description of the amendment.
  4. The name and title of person who requested the amendment.
  5. The date the resident engineer approved it.

# Attachment BB

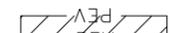
## Water Pollution Control Drawings



# WATER POLLUTION CONTROL DRAWINGS (WPCDs) FOR STATE ROUTE 32 WIDENING PROJECT (PHASE 1) CHICO, BUTTE COUNTY CALTRANS CONTRACT No. 03-1E4904

PREPARED BY:  
MARK THOMAS AND COMPANY, INC.

### LEGEND

-  SC-1 TEMPORARY SILT FENCE
-  SC-4 CHECK DAM
-  SC-5 FIBER ROLL
-  SC-10 INLET PROTECTION
-  ENERGY DISSIPATION DEVICE  
(SEE DRAINAGE PLANS)
-  SS-2 PRESERVATION OF EXISTING VEGETATION
-  TC-1 STABILIZED CONSTRUCTION ENTRANCE
-  STORMWATER SAMPLING LOCATION

### GENERAL WATER POLLUTION CONTROL NOTES:

1. THE INFORMATION ON THESE DRAWINGS ARE ACCURATE FOR WATER POLLUTION CONTROL PURPOSES ONLY.
2. THE INFORMATION ON THIS PLAN IS INTENDED TO BE USED AS A GUIDELINE FOR THE CONTRACTOR AND SUBCONTRACTORS TO INSTALL WATER POLLUTION CONTROL DEVICES AT GENERAL LOCATIONS THROUGHOUT THE SITE. THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE NARRATIVE SECTION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
3. FIELD CONDITIONS MAY NECESSITATE MODIFICATIONS TO THESE DRAWINGS.
4. PERMANENT EROSION CONTROL WILL BE INSTALLED AS AREAS ARE DETERMINED TO BE SUBSTANTIALLY COMPLETE.
5. THE CONTRACTOR SHALL SECURE A CONSTRUCTION YARD. THE LOCATION OF THE CONSTRUCTION YARD SHALL BE APPROVED BY THE ENGINEER.

REVISOR	REVISION	DATE	BY	REASON
CALCULATED-DESIGNED BY	CHECKED BY			
CONSULTANT	FUNCTIONAL SUPERVISOR			
STATE OF CALIFORNIA	DEPARTMENT OF TRANSPORTATION			



**WATER POLLUTION CONTROL DRAWING  
TITLE SHEET**

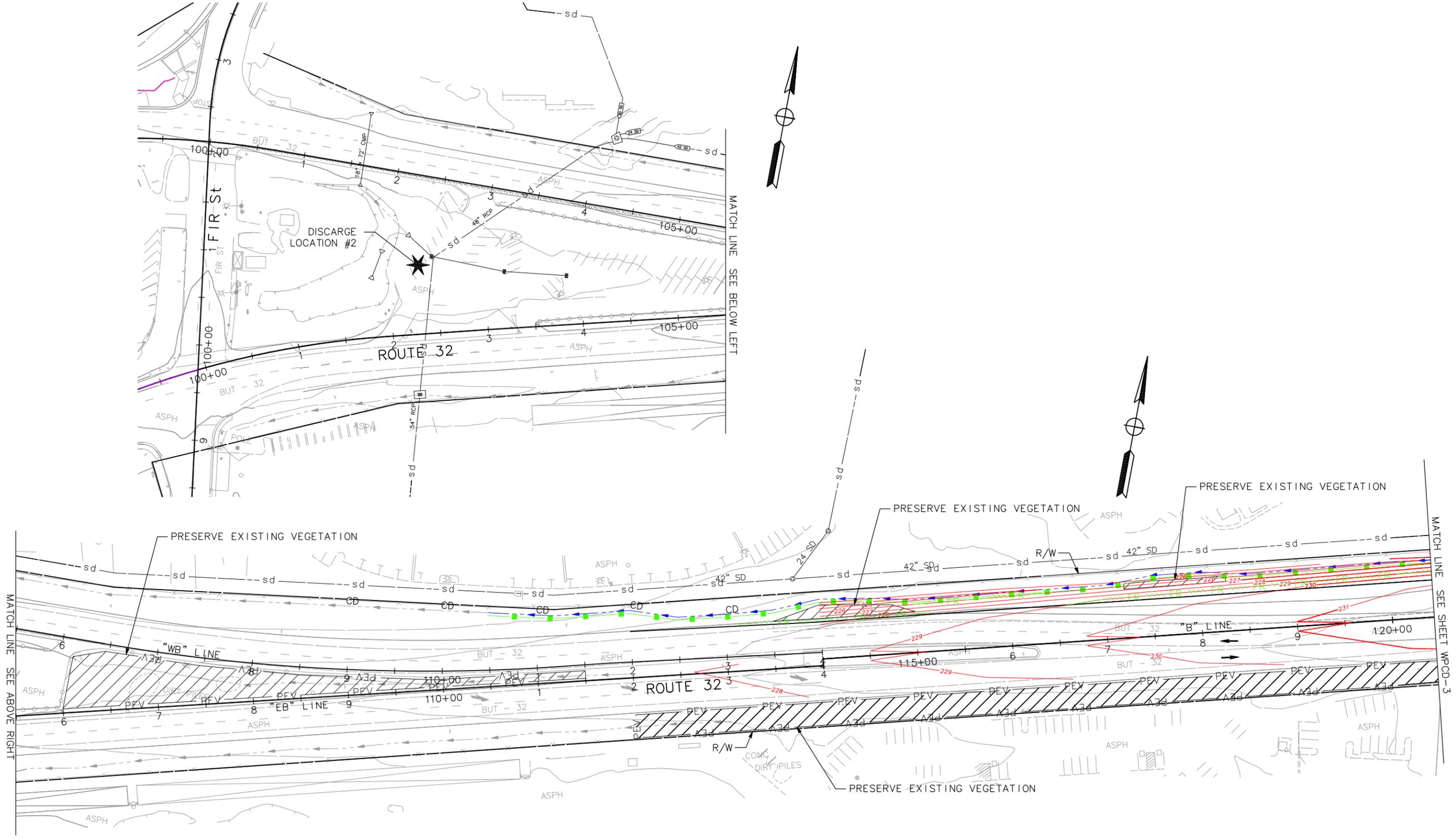
**WPCD-1**

PATH: V:\Chico-55-0131-SR32 Widening\Reports\SWPPP\WPCD\ FILE NAME: WPCD Stage 1 plans PLOT DATE: Nov 29, 2011-09:33:24am CAD USER: amillar

LAST REVISION

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 CAD USER: amillar  
 FILE NAME: WPCD Stage 1 plans  
 PLOT DATE: Nov 22, 2011-03:55:48pm  
 PATH: V:\Chico-55-0131-SR32 Widening\Reports\SWPPP\WPCD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR
		CHECKED BY	DATE REVISOR



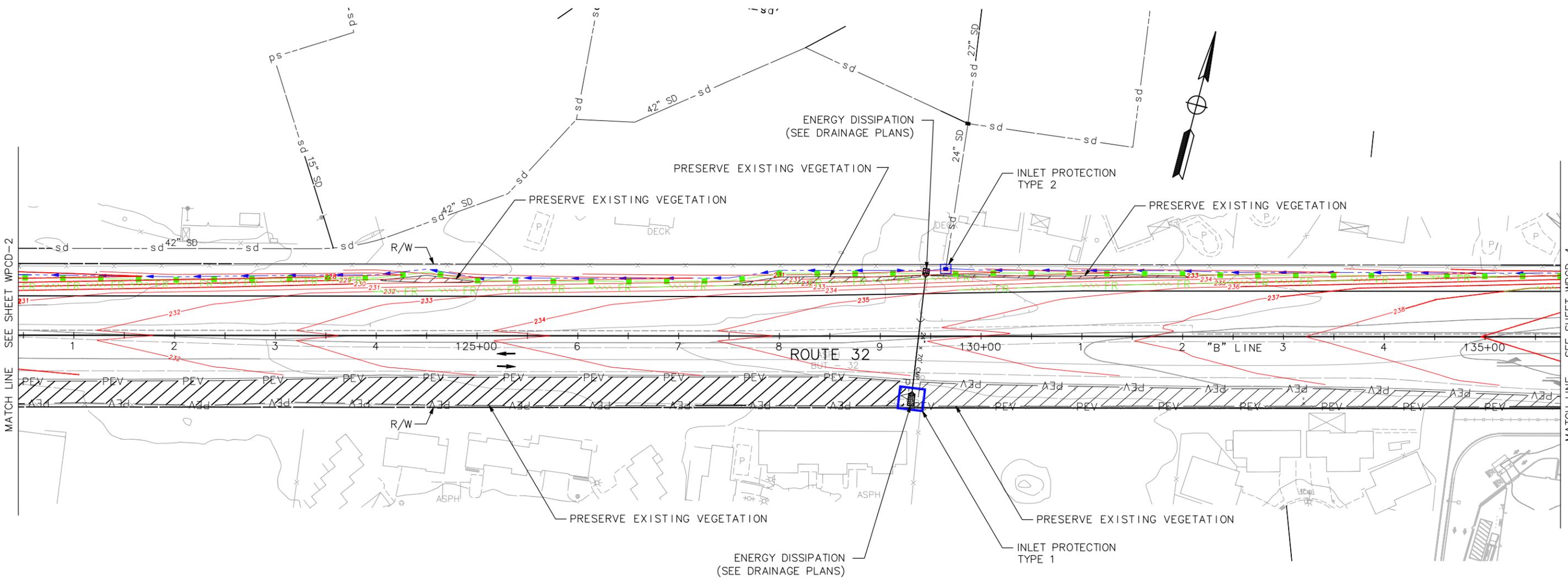
**WATER POLLUTION CONTROL DRAWING**  
**STAGE 1**  
 SCALE: 1" = 50'  
**WPCD-2**

THIS PLAN ACCURATE FOR EROSION AND SEDIMENT CONTROL WORK ONLY



FILE NAME: WPCD Stage 1 plans  
 PLOT DATE: Nov 17, 2011-10:25:41am  
 CAD USER: eweeks

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR
		CHECKED BY	DATE REVISED



**WATER POLLUTION CONTROL DRAWING  
 STAGE 1**

SCALE: 1" = 50'

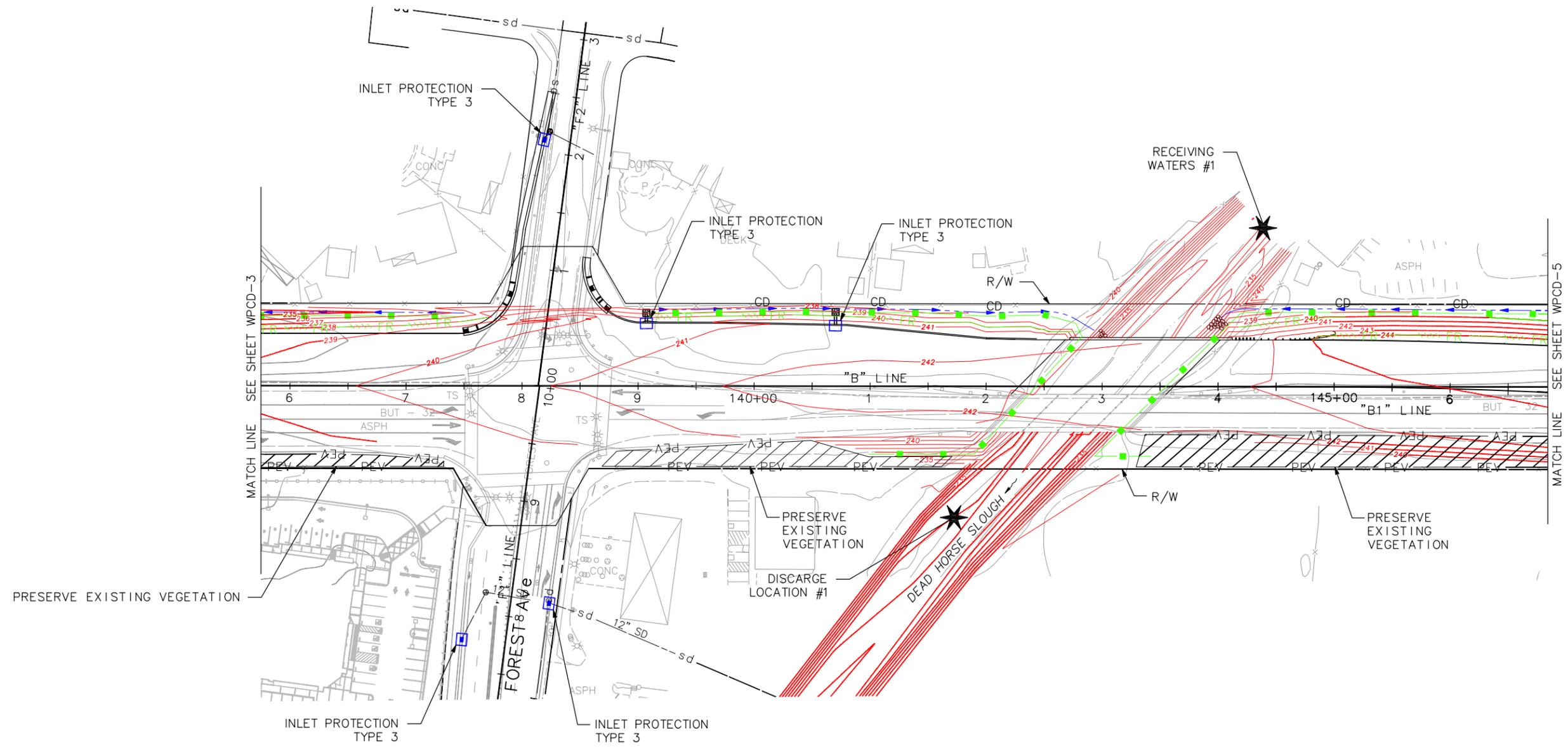
**WPCD-3**

THIS PLAN ACCURATE FOR EROSION AND  
 SEDIMENT CONTROL WORK ONLY



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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR
		CHECKED BY	DATE REVISED



**WATER POLLUTION CONTROL DRAWING  
STAGE 1**

SCALE: 1" = 50'

**WPCD-4**

THIS PLAN ACCURATE FOR EROSION AND  
SEDIMENT CONTROL WORK ONLY

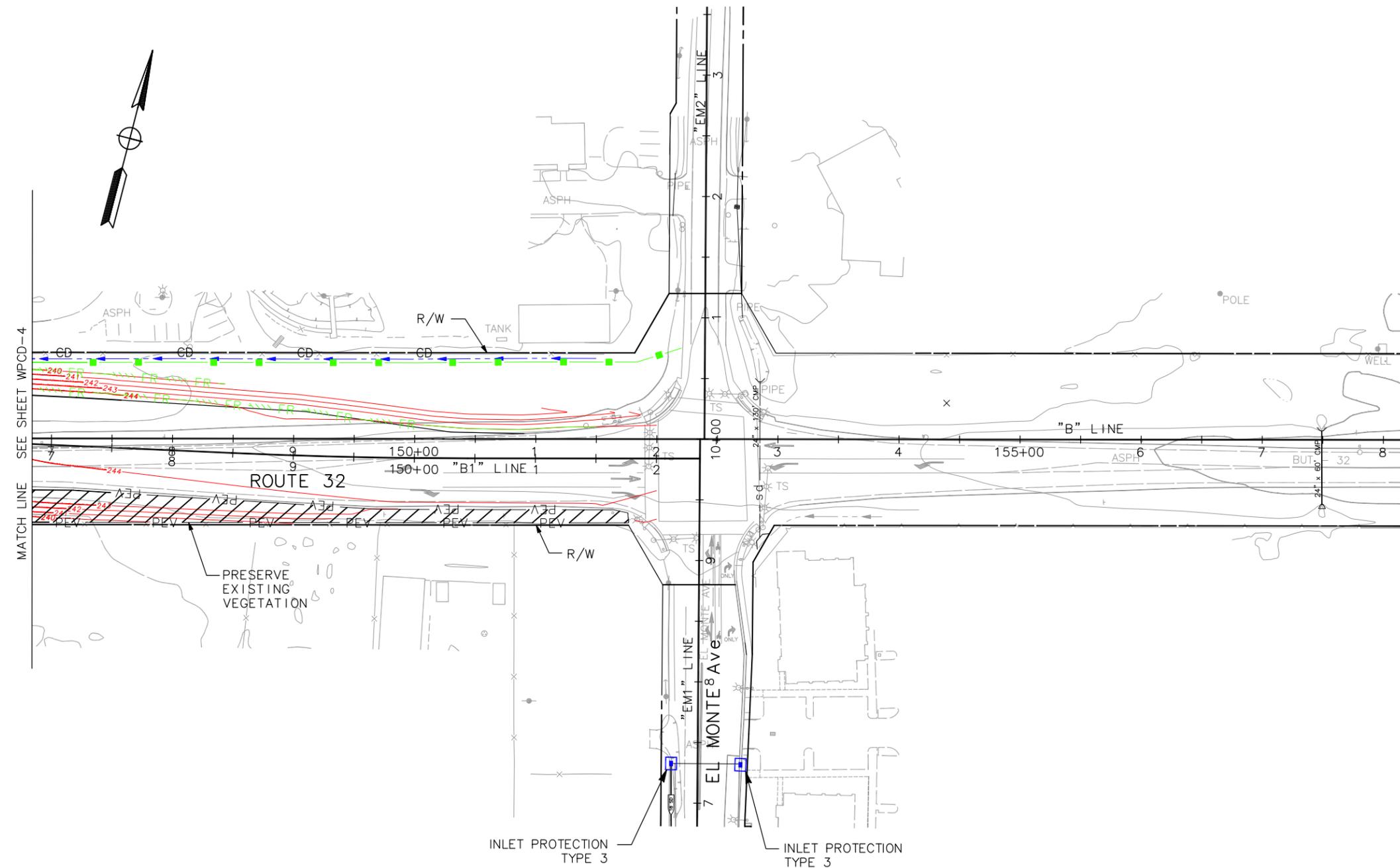


BORDER LAST REVISED 7/2/2010

LAST REVISION

PATH: V:\Chico-55-0131-SR32 Widening\Reports\SMPPP\WPCD\ FILE NAME: WPCD Stage 1 plans PLOT DATE: Nov 17, 2011-10:26:39am CAD USER: eweeks

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISED BY
		CHECKED BY	DATE REVISED

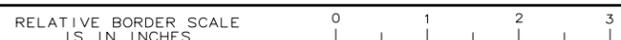


# WATER POLLUTION CONTROL DRAWING STAGE 1

SCALE: 1" = 50'

WPCD-5

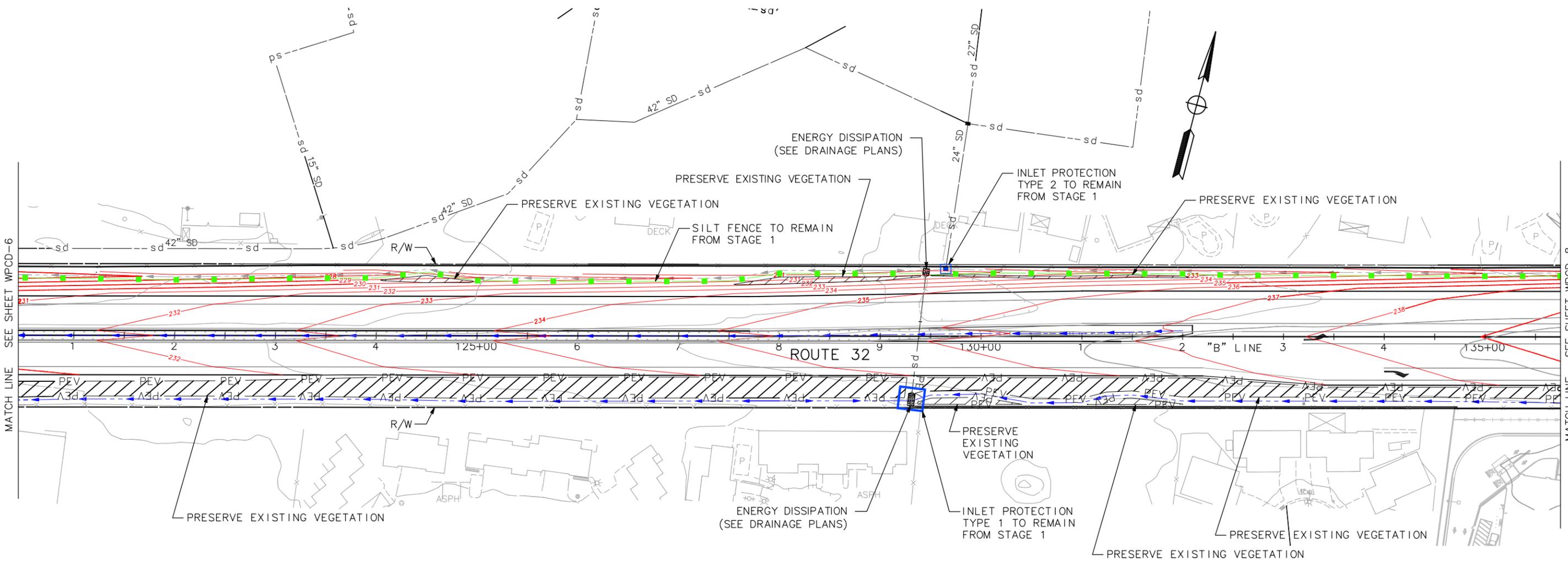
THIS PLAN ACCURATE FOR EROSION AND SEDIMENT CONTROL WORK ONLY





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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR
		CHECKED BY	DATE REVISED



# WATER POLLUTION CONTROL DRAWING STAGE 2

SCALE: 1" = 50'

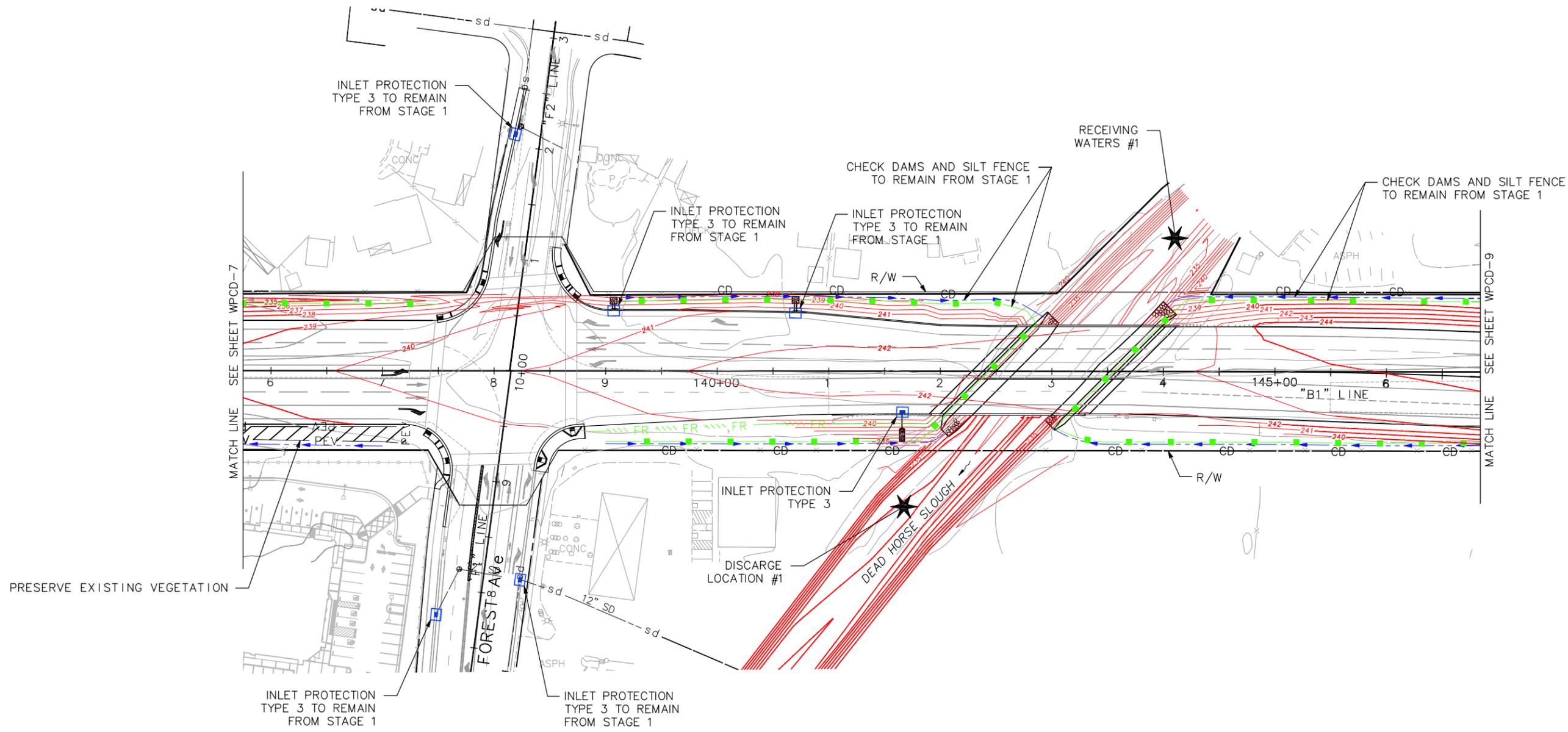
WPCD-7

THIS PLAN ACCURATE FOR EROSION AND SEDIMENT CONTROL WORK ONLY



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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR
		CHECKED BY	DATE REVISED



# WATER POLLUTION CONTROL DRAWING STAGE 2

SCALE: 1" = 50'

WPCD-8

THIS PLAN ACCURATE FOR EROSION AND  
SEDIMENT CONTROL WORK ONLY

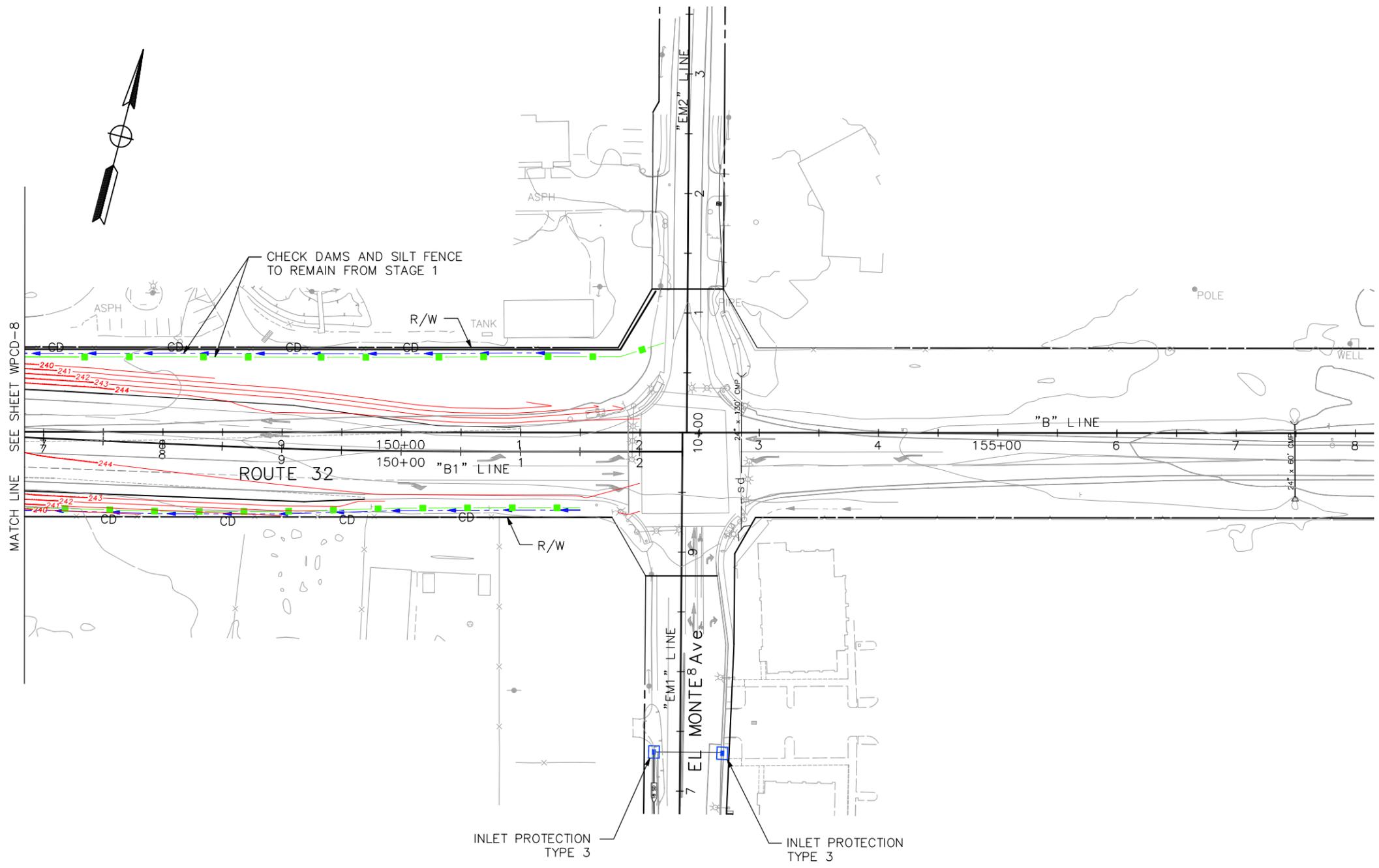


BORDER LAST REVISED 7/2/2010

LAST REVISION

PATH: V:\Chico-55-0131-SR32 Widening\Reports\SMPPP\WPCD\ FILE NAME: WPCD Stage 2 plans PLOT DATE: Nov 17, 2011-10:28:45am CAD USER: eweeks

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	DATE
					
			CHECKED BY	DATE	REVISOR



# WATER POLLUTION CONTROL DRAWING STAGE 2

SCALE: 1" = 50'

WPCD-9

THIS PLAN ACCURATE FOR EROSION AND SEDIMENT CONTROL WORK ONLY

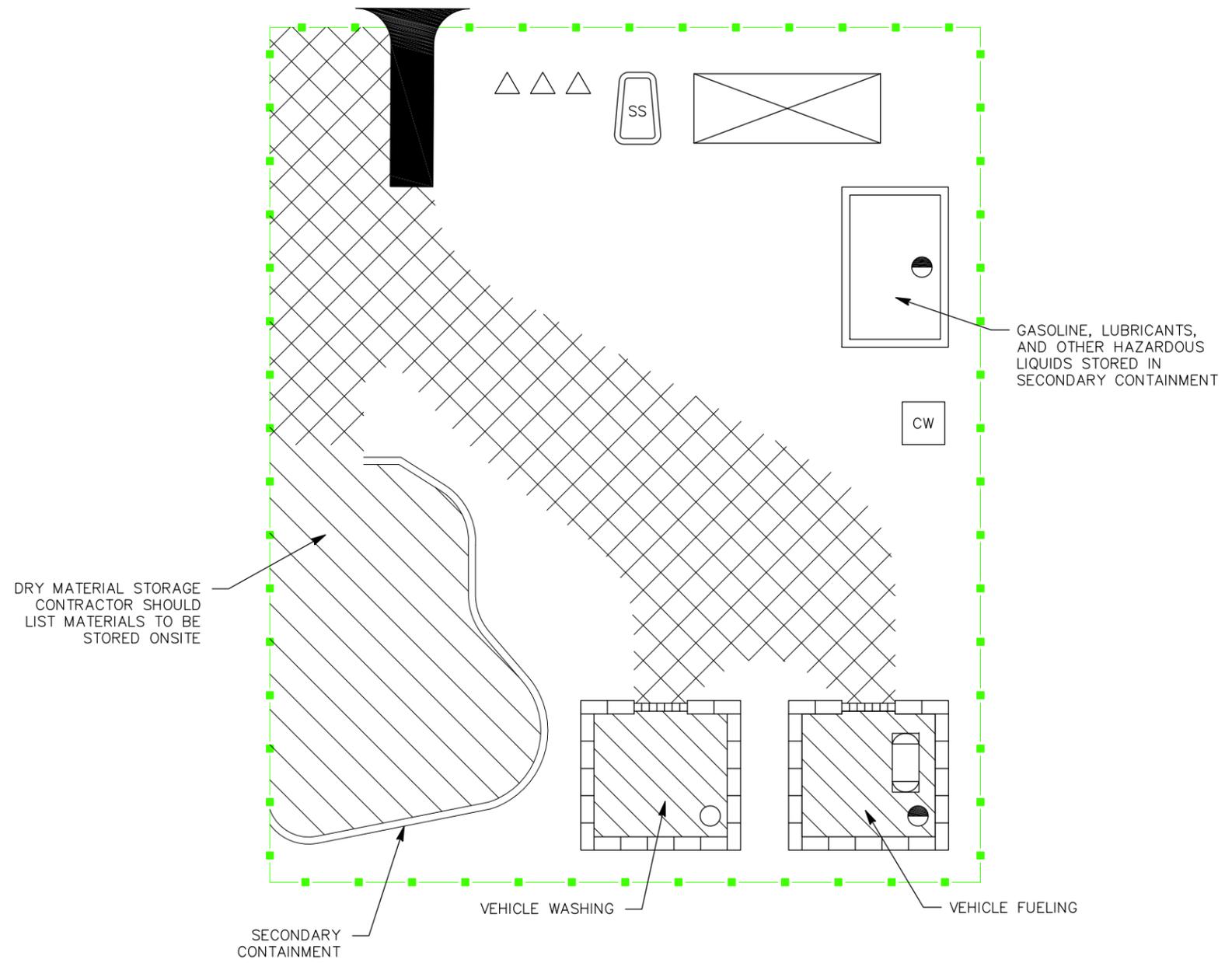


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 FILE NAME: WPCD Details  
 PLOT DATE: Nov 29, 2011-08:53:05am

STATE OF CALIFORNIA	DEPARTMENT OF TRANSPORTATION	CONSULTANT	FUNCTIONAL SUPERVISOR	CALCULATED BY	DESIGNED BY	CHECKED BY	REVISOR	DATE	REVISION
									

**LEGEND**

-  COVERED STORAGE AREA
-  PORTABLE SANITARY FACILITY  
CONSTRUCTED TO RESIST TIPPING
-  DUMPSTER
-  STRAW BALE BARRIER  
OR GRAVEL BAG BARRIER
-  ABSORBENT MATERIAL
-  SUMP
-  SILT FENCE
-  STABILIZED CONSTRUCTION ENTRANCE
-  STABILIZED CONSTRUCTION ROADWAY
-  CONCRETE PAD OR OTHER IMPERVIOUS MATERIAL
-  FUELING TANK WITH SECONDARY CONTAINMENT
-  CONCRETE WASHOUT



**TYPICAL CONTRACTOR'S CONSTRUCTION YARD**

**WATER POLLUTION CONTROL DRAWING  
 CONSTRUCTION DETAILS**

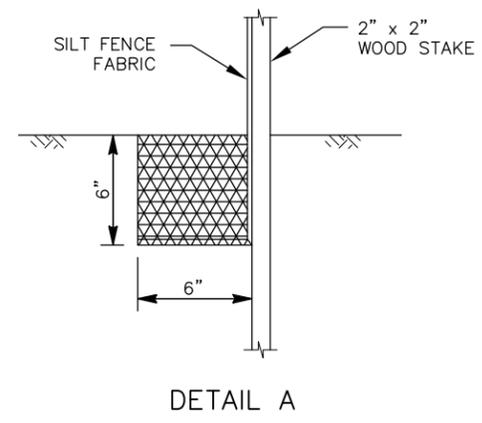
NO SCALE

**WPCD-10**

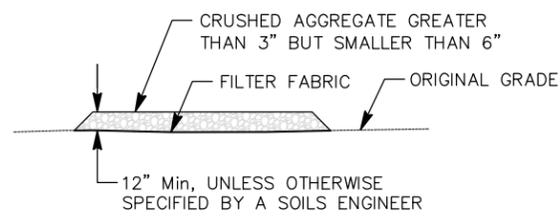
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CONSULTANT FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR
<b>Caltrans</b>		CHECKED BY	DATE

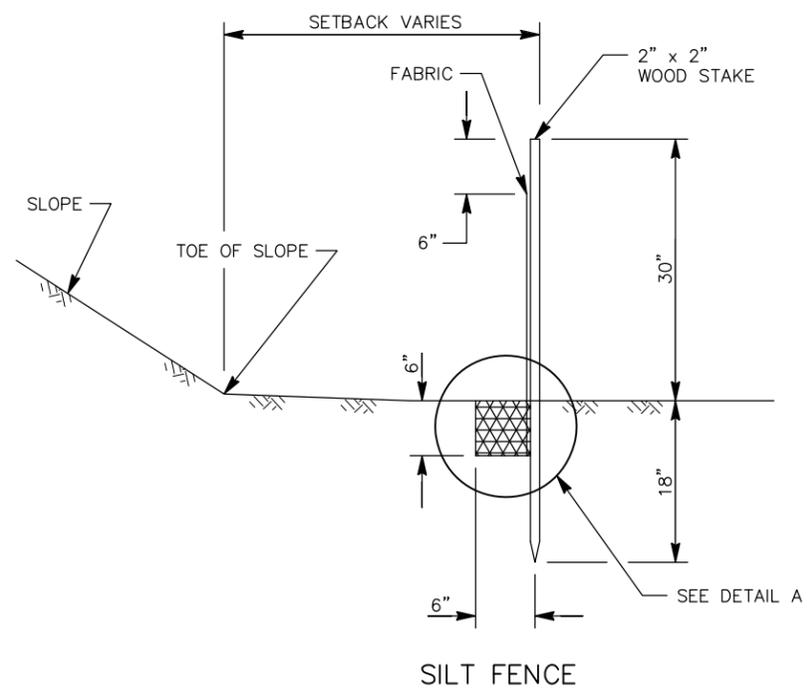
**LEGEND**



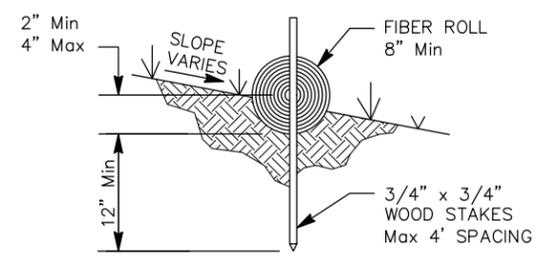
DETAIL A



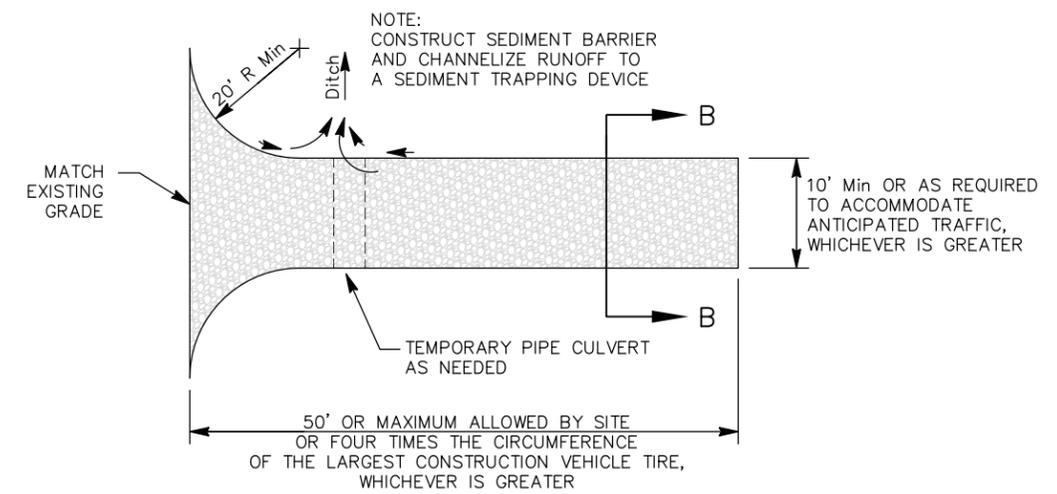
SECTION B-B



SILT FENCE



FIBER ROLLS ENTRENCHMENT DETAIL



PLAN STABILIZED CONSTRUCTION ENTRANCE/EXIT

**WATER POLLUTION CONTROL DRAWING  
CONSTRUCTION DETAILS**

NO SCALE

**WPCD-11**



## Attachment CC

### Water Pollution Control Best Management Practices List



ATTACHMENT CC  
 WATER POLLUTION CONTROL  
 BEST MANAGEMENT PRACTICES LIST

PROJECT NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER
CONTRACTOR NAME AND SITE ADDRESS	PROJECT SITE RISK LEVEL <input type="checkbox"/> Risk Level 1 <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> Risk Level 3

**Water Pollution Control Best Management Practices List (WPCBMPL)**

Project Phases included in WPCBMPL <input type="checkbox"/> Preliminary Phase <input type="checkbox"/> Grading Phase <input type="checkbox"/> Highway Construction Phase <input type="checkbox"/> Highway Planting / Erosion Control Phase	Project Stages included in WPCBMPL <input type="checkbox"/> 1 Stage <input type="checkbox"/> 2 Stages <input type="checkbox"/> 3 Stages <input type="checkbox"/> 4 Stages
--	---

Project Required BMP	Best Management Practice (BMP)	BMP ID	Total Quantity Required
	<b>TEMPORARY SOIL STABILIZATION</b>		
<input type="checkbox"/>	Preservation of Existing Vegetation	SS-02	
<input type="checkbox"/>	Hydraulic Mulch	SS-03	
<input type="checkbox"/>	Hydroseeding	SS-04	
<input type="checkbox"/>	Soil Binders	SS-05	
<input type="checkbox"/>	Straw Mulch	SS-06	
<input type="checkbox"/>	Geotextiles, Mats, Plastic Covers, and Erosion Control Blankets	SS-07	
<input type="checkbox"/>	Wood Mulching	SS-08	
<input type="checkbox"/>	Earth Dikes/Drainage Swales and Lined Ditches	SS-09	
<input type="checkbox"/>	Outlet Protection/Velocity Dissipation Devices	SS-10	
<input type="checkbox"/>	Slope Drains	SS-11	
<input type="checkbox"/>	Streambank Stabilization	SS-12	
<input type="checkbox"/>			
	<b>TEMPORARY SEDIMENT CONTROL</b>		
<input type="checkbox"/>	Silt Fence	SC-01	
<input type="checkbox"/>	Sediment/Distilling Basin	SC-02	
<input type="checkbox"/>	Sediment Trap	SC-03	
<input type="checkbox"/>	Check Dams	SC-04	
<input type="checkbox"/>	Fiber Rolls	SC-05	
<input type="checkbox"/>	Gravel Bag Berm	SC-06	
<input type="checkbox"/>	Sandbag Barrier	SC-07	
<input type="checkbox"/>	Straw Bale Barrier	SC-09	
<input type="checkbox"/>	Storm Drain Inlet Protection	SC-10	
<input type="checkbox"/>			

ATTACHMENT CC  
 WATER POLLUTION CONTROL  
 BEST MANAGEMENT PRACTICES LIST

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

**Water Pollution Control Best Management Practices List**

<b>Project Required BMP</b>	<b>Best Management Practice (BMP)</b>	<b>BMP ID</b>	<b>Total Quantity Required</b>
	WIND EROSION CONTROL		
<input type="checkbox"/>	Wind Erosion Control	WE-01	
	TRACKING CONTROLS		
<input type="checkbox"/>	Stabilized Construction Entrance/Exit	TC-01	
<input type="checkbox"/>	Stabilized Construction Roadway	TC-02	
<input type="checkbox"/>	Entrance/Exit Tire Wash	TC-03	
<input type="checkbox"/>	Street Sweeping	SC-07	
	NON-STORMWATER MANAGEMENT		
<input type="checkbox"/>	Water Conservation Practices	NS-01	
<input type="checkbox"/>	Dewatering Operations	NS-02	
<input type="checkbox"/>	Paving and Grinding Operations	NS-03	
<input type="checkbox"/>	Temporary Stream Crossing	NS-04	
<input type="checkbox"/>	Clear Water Diversion	NS-05	
<input type="checkbox"/>	Illicit Connection/Illegal Discharge Detection and Reporting	NS-06	
<input type="checkbox"/>	Potable Water/Irrigation	NS-07	
<input type="checkbox"/>	Vehicle and Equipment Cleaning	NS-08	
<input type="checkbox"/>	Vehicle and Equipment Fueling	NS-09	
<input type="checkbox"/>	Vehicle and Equipment Maintenance	NS-10	
<input type="checkbox"/>	Pile driving Operations	NS-11	
<input type="checkbox"/>	Concrete Curing	NS-12	
<input type="checkbox"/>	Material and Equipment Use Over Water	NS-13	
<input type="checkbox"/>	Concrete Finishing	NS-14	
<input type="checkbox"/>	Structure Demolition/Removal Over or adjacent to Water	NS-15	
	WASTE MANAGEMENT AND POLLUTION CONTROL		
<input type="checkbox"/>	Material Delivery and Storage	WM-01	
<input type="checkbox"/>	Material Use	WM-02	
<input type="checkbox"/>	Stockpile Management	WM-03	
<input type="checkbox"/>	Spill Prevention and Control	WM-04	
<input type="checkbox"/>	Solid Waste Management	WM-05	
<input type="checkbox"/>	Hazardous Waste Management	WM-06	
<input type="checkbox"/>	Contaminated Soil Management	WM-07	
<input type="checkbox"/>	Concrete Waste Management	WM-08	
<input type="checkbox"/>	Sanitary/Septic Waste Management	WM-09	
<input type="checkbox"/>	Liquid Waste Management	WM-10	
<input type="checkbox"/>			





ATTACHMENT CC  
 WATER POLLUTION CONTROL  
 BEST MANAGEMENT PRACTICES LIST

	Comments:		

Page \_\_ of \_\_

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

No.	<b>Water Pollution Control Best Management Practices List</b>			
—	Location:	Project Phase:	Location shown on WPCD sheet number:	Disturbed Soil Area: _____ acres
		Stage:		
	<b>Best Management Practice (BMP)</b>		<b>BMP ID</b>	<b>Quantity Required</b>
Comments:				
—	Location:	Project Phase:	Location shown on WPCD sheet number:	Disturbed Soil Area: _____ acres
		Stage:		
	<b>Best Management Practice (BMP)</b>		<b>BMP ID</b>	<b>Quantity Required</b>
Comments:				
—	Location:	Project Phase:	Location shown on WPCD sheet number:	Disturbed Soil Area: _____ acres
		Stage:		
	<b>Best Management Practice (BMP)</b>		<b>BMP ID</b>	<b>Quantity Required</b>

ATTACHMENT CC  
WATER POLLUTION CONTROL  
BEST MANAGEMENT PRACTICES LIST

	Comments:		

# Attachment DD

## Water Pollution Control Schedule



TO BE INSERTED WITH AN AMDENDMENT



# Attachment EE

## Stormwater Sampling Locations



ATTACHMENT EE  
 STORMWATER SAMPLING LOCATIONS

PROJECT NAME AND SITE ADDRESS	CONTRACT NUMBER/CO?RTE/PM	PROJECT SITE RISK LEVEL <input type="checkbox"/> Risk Level 1 <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> Risk Level 3
	PROJECT IDENTIFIER NUMBER	

**STORMWATER SAMPLING LOCATIONS**

**Project Site Non-Visible Pollutant Sampling Locations**

SWPPP Table 700.2.2.3.2.1 & Table 700.2.2.3.2.2

Location No	Uncontaminated Location No.	Location	Pollutant Source	Pollutant	Water Quality Indicator Constituent

Instruction: Include the following Table for all Risk Levels.

**Project Site Drainage Areas**

SWPPP Table Table 700.1.1.1

Drainage Area No	Location	Drainage Area (acres)	Disturbed Soil Area (acres)	Percentage of Drainage Area that is Disturbed Soil Area (%)

ATTACHMENT EE  
STORMWATER SAMPLING LOCATIONS

PROJECT NAME	CONTRACT NUMBER/CO/RTE/PM	PROJECT IDENTIFIER NUMBER
--------------	---------------------------	---------------------------

**STORMWATER SAMPLING LOCATIONS CONTINUED**

Instruction: Include the following Table for All Risk Levels when dewatering will be performed on the project site. Delete the Table if there is no dewatering planned for the project site.

<b>Project Site Dewatering Sampling Locations</b> SWPPP Table 700.2.3.3.2.1				
Location No	Location	Dewatering Permit?	Pollutant From Construction Activity	Water Quality Indicator Constituent
		<input type="checkbox"/> Yes <input type="checkbox"/> No		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		

Instruction: Include the following Table for All Risk Levels when there is a potential for impounded stormwater that will have to be discharged from the project site.

<b>Project Site Potential Impounded Stormwater Sampling Locations</b> (SWPPP Table 700.2.3.3.2.2)				
Location No	Location	Dewatering Permit?	Pollutant From Construction Activity	Water Quality Indicator Constituent
		<input type="checkbox"/> Yes <input type="checkbox"/> No		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		

Instruction: Include the following Table for All Risk Levels when there are dewatering activities or a potential for impounded stormwater that will have to be discharged from the project site and there is a high risk receiving water.

<b>Project Site Potential Dewatering / Impounded Stormwater Sampling Locations and Receiving Water Sampling Locations</b> (SWPPP Table 700.2.3.3.2.3)			
Dewatering / Impounded Stormwater Location No	Location	Receiving Water Location No	Location

ATTACHMENT EE  
STORMWATER SAMPLING LOCATIONS

PROJECT NAME	CONTRACT NUMBER/CO/RTE/PM	PROJECT IDENTIFIER NUMBER
--------------	---------------------------	---------------------------

**STORMWATER SAMPLING LOCATIONS CONTINUED**

Instruction: Include the following Table for Risk Level 2 and Risk Level 3 projects. Delete the Table for Risk Level 1 projects.

<b>Project Site Discharge Sampling Locations for Turbidity and pH</b> SWPPP Table 700.2.4.3.2.1					
Location No	Location	Drainage Area (acres)	Disturbed Soil Area (acres)	Percentage of Drainage Area that is Disturbed Soil Area (%)	Are there construction activities that may affect pH of stormwater discharges?
					<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes <input type="checkbox"/> No

Instruction: Include the following Table for Risk Level 2 and Risk Level 3 when project site has discharge locations that discharge directly to a receiving water. Delete the Table for Risk Level 1 projects.

<b>Receiving Water Sampling Locations for Turbidity and pH When Project Site Discharges Directly To The Receiving Water</b> SWPPP Table 700.2.4.3.2.2					
Location No	Location	Drainage Area (acres)	Disturbed Soil Area (acres)	Percentage of Drainage Area that is Disturbed Soil Area (%)	Construction Activities That May Affect pH of Stormwater Discharges?
					<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes <input type="checkbox"/> No

ATTACHMENT EE  
STORMWATER SAMPLING LOCATIONS

PROJECT NAME	CONTRACT NUMBER/CO/RTE/PM	PROJECT IDENTIFIER NUMBER
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**STORMWATER SAMPLING LOCATIONS CONTINUED**

Instruction: Include the following Table for All Risk Levels. Delete the Table for Risk Level 1 projects if there are no project site run-on locations.

<b>Project Site Run-on Sampling Locations</b> SWPPP Table 700.2.4.3.2.4					
Location No.	Location	Run-on May Affect Water Quality Discharged at Project Site Discharge Location No.	Is there any off-site disturbed soil area that could affect run-on water quality?	Are there any off-site pollutants identified that could affect run-on water quality?	Identified Potential Off-site Pollutants
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Instruction: Include the following Table for All Risk Level 3 projects. Delete the Table for Risk Level 1 and Risk Level 2 projects.

<b>Receiving Water Sampling Locations</b> SWPPP Table 700.2.4.3.2.5			
Location No.	Location	Project Site Discharge Location No.	Discharges from this project site discharge location do not reach receiving water?
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

ATTACHMENT EE  
STORMWATER SAMPLING LOCATIONS

PROJECT NAME	CONTRACT NUMBER/CO/RTE/PM	PROJECT IDENTIFIER NUMBER
--------------	---------------------------	---------------------------

**STORMWATER SAMPLING LOCATIONS CONTINUED**

Instruction: Include the following Table when the RWQCB has requested specific water quality standard monitoring of project site discharge locations.

<b>Stormwater Discharge Locations Required To Be Monitored By RWQCB</b> SWPPP Table 700.5.3.2.1			
<b>Location No.</b>	<b>Location</b>	<b>Water Quality Standard(s)</b>	<b>Potential site run-on that may affect water quality standard?</b>
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

Instruction: Include the following Table when the RWQCB has requested specific water quality standard monitoring of receiving waters.

<b>Receiving Water Sampling Locations Required To Be Monitored By RWQCB</b> SWPPP Table 700.2.4.3.2.5		
<b>Location No.</b>	<b>Location</b>	<b>Water Quality Standard(s)</b>

Instruction: Include the following Table when the project receives run-on with the potential to combine with stormwater discharges locations or receiving waters that require RWQCB specified water quality monitoring.

<b>Run-on Locations With Potential To Combine With Stormwater Discharges Required To Be Monitored By RWQCB</b> SWPPP Table 700.2.5.3.2.4		
<b>Location No.</b>	<b>Location</b>	<b>Water Quality Standard(s)</b>

ATTACHMENT EE  
 STORMWATER SAMPLING LOCATIONS

PROJECT NAME	CONTRACT NUMBER/CO/RTE/PM	PROJECT IDENTIFIER NUMBER
--------------	---------------------------	---------------------------

**STORMWATER SAMPLING LOCATIONS CONTINUED**

Instruction: Include the following Table for Risk Level 3 when an active treatment system will be used on the project site. Delete the Table if active treatment system is planned to be used on the project site.

<b>Active Treatment System (ATS) Sampling Locations</b> SWPPP Table 700.2.6.3.2			
Location No	Location	Chemical/Additive Used in Active Treatment System	Residual Chemical/Additive Indicator Constituent

# Appendix A

CEM-2008

SWPPP Amendment and Certification Form



PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER
	WDID NUMBER
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL <input type="checkbox"/> Risk Level 1 <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> Risk Level 3
<b>Stormwater Pollution Prevention Plan (SWPPP)-Water Pollution Control Program (WPCP) Amendment Number _____</b>	
Contractor water pollution control manager signature	Date
Contractor water pollution control manager name	Phone number
<b>Contractor Certification of SWPPP or WPCP Amendment</b>	
"I certify under a 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	
<b>Resident Engineer Acceptance and Approval of SWPPP or WPCP Amendment</b>	
"I certify under a penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted, to the best of my knowledge and belief is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."	
Resident engineer signature	Date of amendment approval and acceptance
Resident engineer name	Phone number

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**WPCP AMENDMENT CERTIFICATION AND ACCEPTANCE**  
 CEM-2008 (NEW 10/1010)

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

**Stormwater Pollution Prevention Plan (SWPPP)-Water Pollution Control Program (WPCP)**  
**Amendment Number \_\_\_\_\_**  
**Required for Private Entity Administered Projects**

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

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 WPCP and find that it meets the requirements set forth in the contract Special Provisions, Caltrans *Standard Specifications*, Section 7-1.01G, "Water Pollution and the Caltrans SWPPP/WPCP Preparation Manual."

Oversight engineer signature	Date of amendment concurrence
Oversight engineer name	Phone number

**GENERAL INFORMATION**

- The information on this 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 /approval.
- SWPPP amendments must be approved by CEM-2006, "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 the 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.
- **Project Site Risk Level**  
Check the box for the appropriate SWPPP risk level.



# Appendix B

CEM-2009  
SWPPP Amendment Log Form





## 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 amendments.
- Attach a completed copy of the form to each approved 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 a Water Pollution Control Program, enter "WPCP" in this field.
- When the resident engineer has approved SWPPP or WPCP amendments, enter:
  1. The amendment number.
  2. The date.
  3. A brief description of the amendment.
  4. The name and title of person who requested the amendment.
  5. The date the resident engineer approved it.

# Appendix C

CEM-2070

SWPPP Annual Certification of Compliance Form



PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM	
	PROJECT IDENTIFIER NUMBER	
	WDID NUMBER	
CONTRACTOR NAME AND ADDRESS	PROJECT SITE WATER POLLUTION CONTROL  <input type="checkbox"/> WPCP  <input type="checkbox"/> SWPPP	PROJECT SITE RISK LEVEL  <input type="checkbox"/> Risk Level 1  <input type="checkbox"/> Risk Level 2  <input type="checkbox"/> Risk Level 3
<b>Stormwater Pollution Prevention Plan / Water Pollution Control Program Annual Certification of Compliance</b>		
<b>Water Pollution Control Manager Certification</b>		
This certification for the project site is based on an inspection of the project site conducted on (date) _____		
I certify based on my inspection of the project site that:		
<input type="checkbox"/> Yes <input type="checkbox"/> No    Water pollution control measures are being implemented in accordance with the SWPPP or WPCP approved for the project, including approved SWPPP/WPCP amendments.		
<input type="checkbox"/> Yes <input type="checkbox"/> No    The project site and activities thereon are in compliance with the Caltrans Statewide NPDES Permit No. CAS000003, the NPDES General Permit for Storm water Discharges Associated with Construction and Land Disturbance Activities, Order No. 2009-00009-DWQ, NPDES Permit No. CAS000002, or local NPDES permit, whichever is applicable.		
Contractor water pollution control manager signature	Date	
Contractor water pollution control manager name	Phone number	
<b>Contractor Annual Certification of Compliance</b>		
I certify under a penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, 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		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**SWPPP/WPCP ANNUAL CERTIFICATION OF COMPLIANCE**  
 CEM-2070 (NEW 12/2010)

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM	
	PROJECT IDENTIFIER NUMBER	
	WDID NUMBER	
CONTRACTOR NAME AND ADDRESS	PROJECT SITE WATER POLLUTION CONTROL	PROJECT SITE RISK LEVEL
	<input type="checkbox"/> WPCP <input type="checkbox"/> SWPPP	<input type="checkbox"/> Risk Level 1 <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> Risk Level 3
<b>Stormwater Pollution Prevention Plan (SWPPP) / Water Pollution Control Program (WPCP)          Annual Certification of Compliance</b>		
<b>Required for Private Entity Administered Projects          Private Entity Legally Responsible Person Annual Certification of Compliance</b>		
<p>I certify that the project is in compliance with the project site approved Stormwater Pollution Prevention Plan or Water Pollution Control Program including approved amendments. The project site and activities thereon are in compliance with the Caltrans Statewide NPDES Permit No. CAS000003, the NPDES General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities, Order No. 2009-00009-DWQ, NPDES Permit No. CAS000002, or local NPDES permit, whichever is applicable.</p> <p>I certify under a penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, 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.</p>		
Legally responsible person signature	Date	
Legally responsible person name	Phone number	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**SWPPP/WPCP ANNUAL CERTIFICATION OF COMPLIANCE**  
 CEM-2070 (NEW 12/2010)

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER
	WDID NUMBER
<b>Resident Engineer Approval of Annual Certification of Compliance</b>	
An inspection of the project site for annual certification of compliance was conducted on (date) _____	Annual Certification of Compliance project site inspection conducted b _____y
<p>I certify that I or personnel acting under my direction and supervision have inspected the project site and find the following:</p> <p><input type="checkbox"/> Yes   <input type="checkbox"/> No   Water pollution control measures are being implemented in accordance with the SWPPP or WPCP approved for the project, including approved SWPPP/WPCP amendments.</p> <p><input type="checkbox"/> Yes   <input type="checkbox"/> No   The project site and activities thereon are in compliance with the Caltrans Statewide NPDES Permit No. CAS000003, the NPDES General Permit for Storm water Discharges Associated with Construction and Land Disturbance Activities, Order No. 2009-00009-DWQ, NPDES Permit No. CAS000002, or local NPDES permit, whichever is applicable.</p>	
The box above is checked "no" based on the project site annual certification inspection and the following corrective actions are necessary for the project to be in compliance with SWPPP/WPCP or NPDES Permits.	
I certify under a penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information, to the best of my knowledge and belief is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	
Resident engineer signature	Date of approval
Resident engineer name	Phone number
<b>Required for Local Agency or Private Entity-Administered Project Caltrans Oversight Engineer's Concurrence With Annual Certification of Compliance</b>	
I, or personnel acting under my direction and supervision, have reviewed this Annual Certification of Compliance and concur that the project is in compliance with SWPPP or WPCP approved for the project, including approved SWPPP/WPCP amendments and applicable NPDES Permits.	
Oversight engineer signature	Date of concurrence
Oversight engineer name	Phone number

## Instructions

### GENERAL INFORMATION

- Projects with either a Stormwater Pollution Prevention Plan (SWPPP) or Water Pollution Control Program (WPCP) require an Annual Certification of Compliance by July 15 of each year.
- Document the project site inspection for annual certification on form CEM-2030, "Stormwater Site Inspection Report."
- A legally responsible person (LRP) or a signatory approved by the LRP must certify the Stormwater Pollution Prevention Plan Annual Certification of Compliance.
  - For Caltrans the LRP is the district director. The LRP may authorize the project resident engineer to be the approved signatory.
  - For a local agency the LRP is either a principal executive officer or ranking elected official. The local agency LRP may authorize the project resident engineer to be the approved signatory. If the local agency LRP has not approved the local agency resident engineer to be an approved signatory, the local agency LRP must sign in the resident engineer signature box of the Annual Certification of Compliance.
  - For a private entity performing work in the state right-of-way under an encroachment permit, the LRP must be one of the following:
    - For a corporation—a responsible corporate officer.
    - For a partnership or sole proprietorship—a general partner or the proprietor, respectively.
    - The private entity LRP may not authorize an approved signatory.
- File a completed copy of this form in SWPPP/WPCP file category 20.70, Annual Certification of Compliance.

### 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 a PID, write "N/A" in the field.

#### WDID Number

For projects that have Water Pollution Control Program, enter "WPCP" in this field.

#### Project Site Water Pollution Control

Check appropriate box for Water Pollution Control Program or Stormwater Pollution Prevention Plan.

#### SWPPP Project Site Risk Level

Check the box for the appropriate SWPPP risk level.

**Appendix D**  
**Subcontractor/Material Supplier Notification Letter and**  
**Contact Information**







Appendix E  
CEM-2023  
Stormwater Training Record Form







**STORMWATER TRAINING RECORD**

CEM-2023 (NEW 12/2010)

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## Instructions

**GENERAL INFORMATION**

- Projects with either a Stormwater Pollution Prevention Plan (SWPPP) or Water Pollution Control Program 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 informal stormwater training.
- Provide this training record and an updated copy of CEM-2024, "Stormwater Training Log," to the resident engineer within five days of the date of training.
- Attach additional copies of page 2 of this form if necessary to record all attendees attending training.

**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 a PIO, 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.



Appendix F  
CEM-2024  
Stormwater Training Log Form



# STORMWATER TRAINING LOG

CEM-2024 (NEW 1/2011)

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM <hr/> PROJECT IDENTIFIER NUMBER <hr/> WDID NUMBER <hr/>
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL <input type="checkbox"/> Risk Level 1 <input type="checkbox"/> WPCP <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> 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 Provided to Resident Engineer
	<input type="checkbox"/> General <input type="checkbox"/> BMPs <input type="checkbox"/> SWPPP			
	<input type="checkbox"/> General <input type="checkbox"/> BMPs <input type="checkbox"/> SWPPP			
	<input type="checkbox"/> General <input type="checkbox"/> BMPs <input type="checkbox"/> SWPPP			
	<input type="checkbox"/> General <input type="checkbox"/> BMPs <input type="checkbox"/> SWPPP			
	<input type="checkbox"/> General <input type="checkbox"/> BMPs <input type="checkbox"/> SWPPP			
	<input type="checkbox"/> General <input type="checkbox"/> BMPs <input type="checkbox"/> SWPPP			
	<input type="checkbox"/> General <input type="checkbox"/> BMPs <input type="checkbox"/> SWPPP			
	<input type="checkbox"/> General <input type="checkbox"/> BMPs <input type="checkbox"/> SWPPP			
	<input type="checkbox"/> General <input type="checkbox"/> BMPs <input type="checkbox"/> SWPPP			

# STORMWATER TRAINING LOG

CEM-2024 (NEW 1/2011)

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## Instructions

### GENERAL INFORMATION

- For projects with either a Stormwater Pollution Prevention Plan or a Water Pollution Control Program the information shown on this form is required 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.
- Provide an updated copy of CEM-2024 with attached training documentation to the resident engineer within five days of training.

### 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 a PID, 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.

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Appendix G  
CEM-2030  
Stormwater Site Inspection Report



STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION  
**STORMWATER SITE INSPECTION REPORT**

CEM-2030 (NEW 7/2010)

Page 1 of 20

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER
	WDID NUMBER
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL <input type="checkbox"/> Risk Level 1 <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> 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	Date of Inspection
Weather condition <input type="checkbox"/> Clear <input type="checkbox"/> Partly cloudy <input type="checkbox"/> Cloudy	Precipitation condition <input type="checkbox"/> Misty <input type="checkbox"/> Heavy rain <input type="checkbox"/> Light rain <input type="checkbox"/> Hail <input type="checkbox"/> Rain <input type="checkbox"/> Snow
Wind Condition <input type="checkbox"/> None <input type="checkbox"/> Less than 5 mph <input type="checkbox"/> Greater than 5 mph	
Construction Phase <input type="checkbox"/> Highway construction <input type="checkbox"/> Plant establishment <input type="checkbox"/> Suspension of work (inactive site)	Site Information _____ Acres total project area _____ Acres total project disturbed soil area _____ Acres current phase disturbed soil area _____ Acres current phase inactive disturbed soil

<b>Inspection Type</b> <i>Check appropriate box</i>	<b>Storm Information</b>	
<input type="checkbox"/> Weekly <input type="checkbox"/> Quarterly non-stormwater	Time elapsed since last storm _____ days	Precipitation amount from last storm _____ inches
<input type="checkbox"/> Pre-storm	Time storm is expected _____ (time) _____ (date)	Expected precipitation amount _____ inches
<input type="checkbox"/> During storm event	Time elapsed since storm began _____ hours-minutes	Precipitation amount from storm recorded from site rain gauge _____ inches
<input type="checkbox"/> Post storm	Time elapsed since storm _____ hours-minutes	Precipitation amount from storm recorded from site rain gauge _____ inches







STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION  
**STORMWATER SITE INSPECTION REPORT**

CEM-2030 (NEW 7/2010)

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

**Site Inspection of Best Management Practices, continued**

<b>Tracking Controls</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	Do all entrances and exits have tracking controls?		Pavement free from visible sediment tacking? Daily sweeping?		Does sediment need to be removed from rock or ribbed plates?		Photos?	Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location									
Location									
Location									
Location									
Location									
Location									
Location									
Location									
Location									
<b>Wind Erosion Control</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	Water trucks onsite?				Visible dust?		Photos?	Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location									
Location									
Location									
Location									
Location									
Location									
Location									
Location									

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION  
**STORMWATER SITE INSPECTION REPORT**

CEM-2030 (NEW 7/2010)

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

**Site Inspection of Best Management Practices, continued**

<b>Dewatering Operations</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	Dewatering currently currently active?		Dewatering conform with RWQCB permit?		Dewatering discharge within discharge specified limitations?		Photos?	Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location									
Location									
Location									
Location									
Location									
Location									
<b>Temporary Stream Crossing</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	Constructed as shown on the plane?		Conforms to 404 permit and 1601 permit requirements?		Maintenance or repair required?		Photos?	Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location									
Location									
Location									
Location									
Location									
Location									

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION  
**STORMWATER SITE INSPECTION REPORT**

CEM-2030 (NEW 7/2010)

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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**

<b>Vehicle and Equipment Fueling and Maintenance</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	Located away from drainage courses and water courses?		Areas protected from run on and runoff?		Performed on impermeable surface with berm?  If no, drip pans used?		Areas reasonably clean and free of spills, leaks and other material?		Vehicles and equipment inspected daily for leaks?  Repair if necessary?		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	

<b>Vehicle and Equipment Cleaning</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	Washing areas located away from drainage courses and water courses?		Washing areas protected from run-on and runoff?		Washing performed on impermeable surface with berm?		Washing areas reasonably clean and free of spills, leaks and other material?		Washing limited to water, no soap?  Wash water contained for infiltration and evaporation or disposal		Photos?	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	
Location 1												
Location 2												

Comments and Required Actions	Action No.
Location 1	
Location 2	

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION  
**STORMWATER SITE INSPECTION REPORT**

CEM-2030 (NEW 7/2010)

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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**

<b>Material Storage</b>  <input type="checkbox"/> Yes <input type="checkbox"/> No	Located away from drainage courses and water courses?		Areas protected from run on and runoff?		Bagged and boxed materials stored on pallets?  Liquid materials in secondary containment?		Areas reasonably clean and free of spills, leaks, and other material?		Is material inventory up to date?		Photos?	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	
Location 1												
Location 2												
Location 3												
Location 4												

	Comments and Required Actions										Action No.
Location 1											
Location 2											
Location 3											
Location 4											

<b>Additional Requirements For Hazardous Material Storage</b>  <input type="checkbox"/> Yes <input type="checkbox"/> No	Stored in properly labeled containers?		Liquids have secondary containment?		Secondary containment facilities free from spills and rainwater?		Cleanup and spill reporting procedures posted?		Cleanup supplies available and adequate for minor spills?		Photos?	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	
Location 1												
Location 2												

	Comments and Required Actions										Action No.
Location 1											
Location 2											

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

**Site Inspection of Best Management Practices, continued**

<b>Waste Management</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	Are watertight litter containers and dumpsters properly located		Are litter and material waste placed in watertight dumpsters?		Do waste management containers have enough capacity for planned operations?		Photos?	Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location									
Location									
Location									
Location									
Location									
Location									
Location									
Location									
<b>Concrete Waste Management</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	Are washout facilities functional and identified?		Are concrete washout liners free from punctures and holes?		Is there enough volume and freeboard for planned operations?		Photos?	Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location									
Location									
Location									
Location									
Location									
Location									
Location									
Location									
Location									

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION  
**STORMWATER SITE INSPECTION REPORT**

CEM-2030 (NEW 7/2010)

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.*

Project-specific BMP <input type="checkbox"/> Yes <input type="checkbox"/> No	Properly located?		Properly installed?		Maintenance or repair needed?		Photos?	Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location									
Location									
Location									
Location									

Project-specific BMP <input type="checkbox"/> Yes <input type="checkbox"/> 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												
Location 4												

	Comments and Required Actions	Action No.
Location 1		
Location 2		
Location 3		
Location 4		

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION  
**STORMWATER SITE INSPECTION REPORT**

CEM-2030 (NEW 7/2010)

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

**Pre-Storm Visual Inspection Requirements**

*Inspect the following in addition to visual inspection of BMPs to see if they have been properly implemented in accordance with SWPP and REAP:*

Drainage Areas	Leaks or spills?		Any uncontrolled pollutant sources?		Stored materials that should be moved?		Photos?		Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes			
Location 1										
Location 2										
Location 3										
Location 4										
Drainage Discharge Locations	Free of erosion or sediment?						Photos?		Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes			
Location 1										
Location 2										
Location 3										
Location 4										
Desilting Basins and Other Stormwater Storage <input type="checkbox"/> Yes <input type="checkbox"/> No	Water retained or stored?		Leaks?		Adequate freeboard for storm event?		Photos?		Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes			
Location 1										
Location 2										
Desilting Basins and other Stormwater Storage <i>If any water is retained or stored, report the following.</i>	Presence of floating and suspended materials?		Presence of discoloration or turbidity?		Presence of odors?		If yes to observed pollutants, was sample taken?		Identify source of any observed pollutants.	
	Yes	No	Yes	No	Yes	No	Yes	No		
Location 1										
Location 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

**During Storm Visual Inspection Requirements**

*In addition to visual inspection of BMPs to determine whether they are performing and are adequate, if additional BMPs are needed, or if BMPs need immediate maintenance, inspect the following*

Drainage Discharge Locations	Flowing water?		Free of erosion or sediment?		Discharge sample taken?		Run-on sample taken?		Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes	No		
Location 1										
Location 2										
Location 3										
Location 4										
Location 5										

Drainage Discharge Locations <i>If any water is flowing, report the following.</i>	Presence of floating and suspended materials?		Presence of discoloration or turbidity?		Presence of odors?		If yes to observed pollutants was sample taken?		Source of observed pollutants
	Yes	No	Yes	No	Yes	No	Yes	No	
Location 1									
Location 2									
Location 3									
Location 4									
Location 5									

Risk Level 3 Drainage Discharge Locations <i>If any water is flowing, report the following.</i>	Run-on sample taken?		Upstream or un-gradient receiving water sample taken?		Downstream or downgradient receiving water sample taken?		Comments and required actions
	Yes	No	Yes	No	Yes	No	
Location							
Location							
Location							
Location							

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION  
**STORMWATER SITE INSPECTION REPORT**

CEM-2030 (NEW 7/2010)

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

**During Storm Visual Inspection Requirements, continued**

<b>Desilting Basins and Other Stormwater Storage</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	Flowing water?		Free of erosion or sediment?		Discharge sample taken?		Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No		
Location 1								
Location 2								
Location 3								

<b>Desilting Basins and Other Stormwater Storage</b> <i>If any water is retained or stored, report the following.</i>	Presence of floating and suspended materials?		Presence of discoloration or turbidity?		Presence of odors?		If yes to observed pollutants was sample taken?		Source of observed pollutants
	Yes	No	Yes	No	Yes	No	Yes	No	
Location 1									
Location 2									
Location 3									

<b>Non-visible Pollutant Locations</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <i>Inspect locations where disturbed soil or materials are stored or used on sites that contain non-visible pollutants.</i>	Breath malfunction leakage or spill?		Run-on?		Flowing discharge?		Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No		
Location 1								
Location 2								
Location 3								

<b>Desilting Basins and Other Stormwater Storage</b> <i>If any water is retained or stored, report the following.</i>	Presence of floating and suspended materials?		Presence of discoloration or turbidity?		Presence of odors?		Discharge sample taken?		Uncontaminated* sample taken?	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Location 1										
Location 2										
Location 3										

\*Sample stormwater that has not come in contact with disturbed soil or stored materials or where materials were used on site for comparison with contaminated sample.

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION  
**STORMWATER SITE INSPECTION REPORT**

CEM-2030 (NEW 7/2010)

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

**Post Storm Visual Inspection Requirements**

*Within 48 hours of a qualifying rain event, inspect all BMPs to determine whether BMPs were adequate, implemented and effective and identify any additional BMPs needed. Perform the following visual inspections of the project site*

Drainage Discharge Locations	Flowing water?		Free of erosion or sediment?		Discharge sample taken?		Run-on sample taken?		Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes	No		
Location 1										
Location 2										
Location 3										
Location 4										
Location 5										

Drainage Discharge Locations <i>If any water is flowing, report the following.</i>	Presence of floating and suspended materials?		Presence of discoloration or turbidity?		Presence of odors?		If yes to observed pollutants, was sample taken?		Source of observed pollutants
	Yes	No	Yes	No	Yes	No	Yes	No	
Location 1									
Location 2									
Location 3									
Location 4									
Location 5									

Risk Level 3 Drainage Discharge Locations <i>If any water is flowing, report the following.</i>	Run-on sample taken?		Upstream or un-gradient receiving water sample taken?		Downstream or downgradient receiving water sample taken?		Comments
	Yes	No	Yes	No	Yes	No	
Location							
Location							
Location							

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION  
**STORMWATER SITE INSPECTION REPORT**

CEM-2030 (NEW 7/2010)

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

**Post Storm Visual Inspection Requirements, continued**

Desilting Basins and Other Stormwater Storage <input type="checkbox"/> Yes <input type="checkbox"/> No	Water retained or stored?		Leaks?				Photos?	Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location 1									
Location 2									
Location 3									

Desilting Basins and Other Stormwater Storage <i>If any water is retained or stored, report the following.</i>	Presence of floating and suspended materials?		Presence of discoloration or turbidity?		Presence of odors?		If yes to observed pollutants, was sample taken?		Source of observed pollutants
	Yes	No	Yes	No	Yes	No	Yes	No	
Location 1									
Location 2									
Location 3									

Non-Visible Pollutant Locations <input type="checkbox"/> Yes <input type="checkbox"/> No <i>Inspect all locations where disturbed soil or materials are stored or used on sites that contain non-visible pollutants.</i>	Breath malfunction, leakage or spill?		Run-on?		flowing discharge?		Photos?	Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location 1									
Location 2									
Location 3									

Non-visible Pollutant Locations <i>If any water is flowing, report the following.</i>	Presence of floating and suspended materials?		Presence of discoloration or turbidity?		Presence of odors?		Discharge sample taken?		Uncontaminated* sample taken?	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Location 1										
Location 2										
Location 3										

\*Sample stormwater that has not come in contact with disturbed soil or stored materials or where materials were used onsite for comparison with contaminated sample.

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION  
**STORMWATER SITE INSPECTION REPORT**

CEM-2030 (NEW 7/2010)

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

**Quarterly Non-Stormwater Discharge Visual Inspection Requirements**

Conduct one visual inspection quarterly in each of the following periods January-March, April-June, July-September, and October-December.

Drainage Areas	Presence of a non-stormwater discharge?		Indication of a prior non-stormwater discharge?		Date discharge was observed?		Photos?	Source of non-stormwater discharge and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes		
Location 1									
Location 2									
Location 3									
Location 4									
Location 5									

Drainage Areas <i>If any water is retained or stored, report the following.</i>	Presence of floating and suspended materials?		Presence of discoloration or turbidity?		Presence of odors?		sample taken?*		Comments and required actions	Action No.
	Yes	No	Yes	No	Yes	No	Yes	No		
Location 1										
Location 2										
Location 3										
Location 4										
Location 5										

\*Sample non-stormwater discharge at the location where the discharge leaves the jobsite and record location under drainage discharge locations.

Drainage Discharge Locations	Presence of a non-stormwater discharge?		Indication of a prior non-stormwater discharge?		Date discharge was observed?	Photos?	Source of non-stormwater discharge and required actions	Action No.
	Yes	No	Yes	No		Yes		
Location 1								
Location 2								
Location 3								
Location 4								
Location 5								

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION  
**STORMWATER SITE INSPECTION REPORT**

CEM-2030 (NEW 7/2010)

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

**Quarterly Non-Stormwater Discharge Visual Inspection Requirements, continued**

<b>Drainage Discharge Locations</b> <i>If any water is flowing, report the following.</i>	Presence of floating and suspended materials?		Presence of discoloration or turbidity?		Presence of odors?		Discharge sample taken?		Run-on sample taken?		Photos?	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	
Location 1												
Location 2												
Location 3												
Location 4												
Location 5												

<b>Risk Level 3 Drainage Discharge Locations</b> <i>If any water is flowing, report the following.</i>			Upstream or un-gradient receiving water sample taken?		Downstream or down-gradient receiving water sample taken?		Comments
	Yes	No	Yes	No	Yes	No	
Location							
Location							
Location							
Location							
Location							

<b>Illegal Connection or Discharge Detection</b> <i>Observe the jobsite and jobsite perimeter for illegal connections and discharges.</i>	Evidence of illegal connections?		Illegal dumping or discharges onto jobsite?		Engineer notified of illegal connection or discharge?	Photos?	Comments and required actions	Action No.
	Yes	No	Yes	No		Yes		
Location								
Location								
Location								
Location								
Location								



STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION  
**STORMWATER SITE INSPECTION REPORT**

CEM-2030 (NEW 7/2010)

Page 19 of 20

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 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 false material statement, representation or certification.

Water Pollution Control Manager Name	Date
--------------------------------------	------

Water Pollution Control Manager Signature

**Stormwater Inspection Report Acceptance**

Accepted by Resident Engineer (Name)	Date
--------------------------------------	------

Resident Engineer Signature

**General Information**

- If the inspection form does not contain enough lines to report all locations on a jobsite, attach additional copies of the form page so that all locations are inspected and reported.
- Obtain forecasted precipitation information from the National Weather Service Forecast Office website, <http://www.srh.noaa.gov/forecast>.
- Weather information should be the best estimate of 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.

**Storm Visual Inspections**

- For non-visible pollutant inspections, report on all locations shown in the SWPPP.

**Required Actions**

- All requiring 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 implementation of repairs or design changes within 72 hours of identification, and complete BMP repairs or other changes as soon as possible.

Appendix H  
CEM-2034

Stormwater Best Management Practices Status Report Form



# STORMWATER BEST MANAGEMENT PRACTICES STATUS REPORT

CEM-2034 (NEW 9/2010)

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER
	WDID NUMBER
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL <input type="checkbox"/> Risk Level 1 <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> Risk Level 3
Water pollution control manager (print name and sign)	Date
Submitted by contractor (print name and sign)	Date

Provide a weekly list of stormwater best management practices on the stormwater pollution prevention plan that are active on the project site.

No.	Stormwater Best Management Practices Status			
1	Location	Disturbed soil area _____ acres	Active disturbed soil area _____ acres	Inactive disturbed soil area _____ acres
	<b>BMP Name</b>	<b>BMP ID</b>	<b>Quantity Installed To Date</b>	<b>Quantity to be Installed Next Week</b>
2	Location	Disturbed soil area _____ acres	Active disturbed soil area _____ acres	Inactive disturbed soil area _____ acres
	<b>BMP Name</b>	<b>BMP ID</b>	<b>Quantity Installed To Date</b>	<b>Quantity to be Installed Next Week</b>



# STORMWATER BEST MANAGEMENT PRACTICES STATUS REPORT

CEM-2034 (NEW 9/2010)

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

Stormwater Best Management Practices Status, continued				
No. _____	Location	Disturbed soil area acres _____	Active disturbed soil area acres _____	Inactive disturbed soil area acres _____
	BMP Name	BMP ID	Quantity Installed To Date	Quantity to be Installed Next Week
No. _____	Location	Disturbed soil area acres _____	Active disturbed soil area acres _____	Inactive disturbed soil area acres _____
	BMP Name	BMP ID	Quantity Installed To Date	Quantity to be Installed Next Week
No. _____	Location	Disturbed soil area acres _____	Active disturbed soil area acres _____	Inactive disturbed soil area acres _____
	BMP Name	BMP ID	Quantity Installed To Date	Quantity to be Installed Next Week
No. _____	Location	Disturbed soil area acres _____	Active disturbed soil area acres _____	Inactive disturbed soil area acres _____
	BMP Name	BMP ID	Quantity Installed To Date	Quantity to be Installed Next Week

**STORMWATER BEST MANAGEMENT PRACTICES****STATUS REPORT**

CEM-2034 (NEW 9/2010)

Page 4 of 4

**General Information**

- The water pollution control manager must oversee preparation of the best management practices status report and submit a copy of the BMP status report weekly.
- 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

<b>BMP Name</b>	<b>BMP ID</b>	<b>BMP Name</b>	<b>BMP ID</b>
<b>Temporary Soil Stabilization</b>		<b>Non-Stormwater Management</b>	
Preservation of existing vegetation	SS-02	Water conservation practices	NS-01
Hydraulic mulch	SS-03	Dewatering operations	NS-02
Hydroseeding	SS-04	Paving and grinding operations	NS-03
Soil binders	SS-05	Temporary stream crossing	NS-04
Straw mulch	SS-06	Clear water diversion	NS-05
Geotextiles, mats, plastic covers, and lined ditches	SS-07	Illegal connection or discharge detection and reporting	NS-06
Wood mulching	SS-08	Potable water and irrigation	NS-07
Earth dikes, drainage swales and lined ditches	SS-09	Vehicle and equipment cleaning	NS-08
Outlet protection and velocity dissipation devices	SS-10	Vehicle and equipment fueling	NS-09
Slope drains	SS-11	Vehicle and equipment maintenance	NS-10
Streambank stabilization	SS-12	Pile-driving operations	NS-11
<b>Temporary Sediment Control</b>		Concrete curing	NS-12
Silt fence	SC-01	Material and equipment use over water	NS-13
Sediment or distilling basin	SC-02	Concrete finishing	NS-14
Sediment trap	SC-03	Structure demolition or removal over or adjacent to water	NS-15
Checkdams	SC-04	<b>Waste Management and Pollution Control</b>	
Fiber rolls	SC-05	Material delivery and storage	WM-01
Gravel bag berm	SC-06	Material use	WM-02
Sandbag barrier	SC-08	Stockpile management	WM-03
Straw bale barrier	SC-09	Spill prevention and control	WM-04
Storm drain inlet protection	SC-10	Solid waste management	WM-05
<b>Wind Erosion Control</b>		Hazardous waste management	WM-06
Wind erosion control	WE-01	Contaminated soil management	WM-07
<b>Tracking Controls</b>		Concrete waste management	WM-08
Stabilized construction entrance and exit	TC-01	Sanitary or septic waste management	WM-09
Stabilized construction roadway	TC-02	Liquid waste management	WM-10
Entrance and exit tire wash	TC-03		
Street sweeping	SC-07		

Appendix I  
CEM-2035  
Stormwater Site Inspection Report Corrective Actions  
Summary



STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION  
**STORMWATER SITE INSPECTION REPORT**  
**CORRECTIVE ACTIONS SUMMARY**

CEM-2035 (REV 7/2011)

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER
	WDID NUMBER
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL <input type="checkbox"/> Risk Level 1 <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> Risk Level 3
Submitted by contractor (print and sign name)	Date

**Daily Site Inspection of Best Management Practices**  
*List daily inspections for at least the previous four days.*

Date	Daily inspection performed by	Any corrective actions listed on inspection reports?		If yes, are corrective actions shown on form CEM-2035?		Date shown on corrective action form
		YES	NO	YES	NO	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Implement required actions identified in a Stormwater Site Inspection Report Summary as soon as possible, but actions must begin within 72 hours of the site inspection.

Corrective action number	Verification of Stormwater Site Inspection Corrective Actions				
1	BMP Type		Location		
	Required Action		Comments		
	Date Completed	Verified by (print name)	Verified by (signature)		
2	BMP Type		Location		
	Required Action		Comments		
	Date Completed	Verified by (print name)	Verified by (signature)		
3	BMP Type		Location		
	Required Action		Comments		
	Date Completed	Verified by (print name)	Verified by (signature)		
4	BMP Type		Location		
	Required Action		Comments		
	Date Completed	Verified by (print name)	Verified by (signature)		

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION  
**STORMWATER SITE INSPECTION REPORT**  
**CORRECTIVE ACTIONS SUMMARY**

CEM-2035 (REV 7/2011)

Page 2 of 2

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

**General Information**

- CGP Attachments C, D, and E, Section G., 5., g require the information on this form.
- If the summary form does not have enough lines to report all required actions, use additional copies of this form's page 2 to report all required corrective actions from an inspection form.
- On page 2 of this form and additional copies of page 2, insert consecutive numbers for each required corrective action.

**Required Actions**

- Identified locations—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.
- Comments must be provided when the required action is changed from the Stormwater Site Inspection Report.

Appendix J  
CEM-2040  
Weather Forecast Monitoring Form



# WEATHER FORECAST LOG

CEM-2040 (NEW 1/2011)

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER
	WDID NUMBER
SUBMITTED BY CONTRACTOR (PRINT AND SIGN NAME)	DATE

**WEATHER MONITORING LOG**  
 Week of \_\_\_ / \_\_\_ / \_\_\_ - \_\_\_ / \_\_\_ / \_\_\_

National Weather Forecast Office <http://www.srh.noaa.gov/forecast> project site forecast based on search using

*(Address or Latitude and Longitude)*

Forecast Date/Time	24-Hour Forecast	48-Hour Forecast	72-Hour Forecast	96-Hour Forecast
	Date	Date	Date	Date
	Chance of Precipitation %	Chance of Precipitation %	Chance of Precipitation %	Chance of Precipitation %
	Amount of Precipitation Inches	Amount of Precipitation Inches	Amount of Precipitation Inches	Amount of Precipitation Inches
	Chance of Precipitation 50 percent or greater within 48 hours of forecast date? <input type="checkbox"/> Yes <input type="checkbox"/> No	Chance of Precipitation 50 percent or greater within 72 hours of forecast date? <input type="checkbox"/> Yes <input type="checkbox"/> No	Forecasted cumulative amount of precipitation for storm event? _____ inches	Forecasted cumulative amount of precipitation for storm event 1/2 inch or greater? <input type="checkbox"/> Yes <input type="checkbox"/> No
	Date	Date	Date	Date
	Chance of Precipitation %	Chance of Precipitation %	Chance of Precipitation %	Chance of Precipitation %
	Amount of Precipitation Inches	Amount of Precipitation Inches	Amount of Precipitation Inches	Amount of Precipitation Inches
	Chance of Precipitation 50 percent or greater within 48 hours of forecast date? <input type="checkbox"/> Yes <input type="checkbox"/> No	Chance of Precipitation 50 percent or greater within 72 hours of forecast date? <input type="checkbox"/> Yes <input type="checkbox"/> No	Forecasted cumulative amount of precipitation for storm event? _____ inches	Forecasted cumulative amount of precipitation for storm event 1/2 inch or greater? <input type="checkbox"/> Yes <input type="checkbox"/> No
	Date	Date	Date	Date
	Chance of Precipitation %	Chance of Precipitation %	Chance of Precipitation %	Chance of Precipitation %
	Amount of Precipitation Inches	Amount of Precipitation Inches	Amount of Precipitation Inches	Amount of Precipitation Inches
	Chance of Precipitation 50 percent or greater within 48 hours of forecast date? <input type="checkbox"/> Yes <input type="checkbox"/> No	Chance of Precipitation 50 percent or greater within 72 hours of forecast date? <input type="checkbox"/> Yes <input type="checkbox"/> No	Forecasted cumulative amount of precipitation for storm event? _____ inches	Forecasted cumulative amount of precipitation for storm event 1/2 inch or greater? <input type="checkbox"/> Yes <input type="checkbox"/> No

**WEATHER FORECAST LOG**

CEM-2040 (NEW 1/2011)

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

**WEATHER MONITORING LOG**

Forecast Date/Time	24-Hour Forecast	48-Hour Forecast	72-Hour Forecast	96-Hour Forecast
	Date	Date	Date	Date
	Chance of Precipitation %	Chance of Precipitation %	Chance of Precipitation %	Chance of Precipitation %
	Amount of Precipitation Inches	Amount of Precipitation Inches	Amount of Precipitation Inches	Amount of Precipitation Inches
	Chance of Precipitation 50 percent or greater within 48 hours of forecast date? <input type="checkbox"/> Yes <input type="checkbox"/> No	Chance of Precipitation 50 percent or greater within 72 hours of forecast date? <input type="checkbox"/> Yes <input type="checkbox"/> No	Forecasted cumulative amount of precipitation for storm event? _____ inches	Forecasted cumulative amount of precipitation for storm event 1/2 inch or greater? <input type="checkbox"/> Yes <input type="checkbox"/> No
	Date	Date	Date	Date
	Chance of Precipitation %	Chance of Precipitation %	Chance of Precipitation %	Chance of Precipitation %
	Amount of Precipitation Inches	Amount of Precipitation Inches	Amount of Precipitation Inches	Amount of Precipitation Inches
	Chance of Precipitation 50 percent or greater within 48 hours of forecast date? <input type="checkbox"/> Yes <input type="checkbox"/> No	Chance of Precipitation 50 percent or greater within 72 hours of forecast date? <input type="checkbox"/> Yes <input type="checkbox"/> No	Forecasted cumulative amount of precipitation for storm event? _____ inches	Forecasted cumulative amount of precipitation for storm event 1/2 inch or greater? <input type="checkbox"/> Yes <input type="checkbox"/> No
	Date	Date	Date	Date
	Chance of Precipitation %	Chance of Precipitation %	Chance of Precipitation %	Chance of Precipitation %
	Amount of Precipitation Inches	Amount of Precipitation Inches	Amount of Precipitation Inches	Amount of Precipitation Inches
	Chance of Precipitation 50 percent or greater within 48 hours of forecast date? <input type="checkbox"/> Yes <input type="checkbox"/> No	Chance of Precipitation 50 percent or greater within 72 hours of forecast date? <input type="checkbox"/> Yes <input type="checkbox"/> No	Forecasted cumulative amount of precipitation for storm event? _____ inches	Forecasted cumulative amount of precipitation for storm event 1/2 inch or greater? <input type="checkbox"/> Yes <input type="checkbox"/> No
	Date	Date	Date	Date
	Chance of Precipitation %	Chance of Precipitation %	Chance of Precipitation %	Chance of Precipitation %
	Amount of Precipitation Inches	Amount of Precipitation Inches	Amount of Precipitation Inches	Amount of Precipitation Inches
	Chance of Precipitation 50 percent or greater within 48 hours of forecast date? <input type="checkbox"/> Yes <input type="checkbox"/> No	Chance of Precipitation 50 percent or greater within 72 hours of forecast date? <input type="checkbox"/> Yes <input type="checkbox"/> No	Forecasted cumulative amount of precipitation for storm event? _____ inches	Forecasted cumulative amount of precipitation for storm event 1/2 inch or greater? <input type="checkbox"/> Yes <input type="checkbox"/> No
	Date	Date	Date	Date
	Chance of Precipitation %	Chance of Precipitation %	Chance of Precipitation %	Chance of Precipitation %
	Amount of Precipitation Inches	Amount of Precipitation Inches	Amount of Precipitation Inches	Amount of Precipitation Inches
	Chance of Precipitation 50 percent or greater within 48 hours of forecast date? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Chance of Precipitation 50 percent or greater within 72 hours of forecast date? <input type="checkbox"/> Yes <input type="checkbox"/> No	Forecasted cumulative amount of precipitation for storm event? _____ inches	Forecasted cumulative amount of precipitation for storm event 1/2 inch or greater? <input type="checkbox"/> Yes <input type="checkbox"/> No

**WEATHER FORECAST LOG**

CEM-2040 (NEW 1/2011)

**Instructions****GENERAL INFORMATION**

- The information on this form is required to document weather forecasts for project sites with either a Stormwater Pollution Prevention Plan (SWPPP) or a Water Pollution Control Program (WPCP).
- To obtain accurate weather forecast information for a project site on the National Weather Service Forecast Office website, enter the site's nearest city, state, or ZIP code in the "Search for" box. Click on Forecast Weather Table Interface on the bottom right side of the page and search by address, city, state, or project site latitude or longitude.
- Use this form daily to log the weather forecast information for the project site from the National Weather Service Forecast Office. Record in inches the chance of precipitation in the percentage and forecasted amounts listed.
- Complete the weather forecast log each working day. If the project is a calendar-day project (seven-working-day week), attach an additional copy of page 2 to report all seven days. Submit Weekly Weather Forecast Monitoring logs to the resident engineer within 48 hours of the ending date.

**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 a project identifier number write N/A in the field.

**WDID Number**

For projects with Water Pollution Control Program enter "WPCP."

Enter the project site street address, including city and state or latitude and longitude used to obtain National Weather Service forecast.

**Weekly Reporting Period**

Enter the first and last working day for the reporting period.

Enter weather forecast information from the Forecast Weather Table Interface of the National Weather Service Forecast Office webpage. Record forecasted chance of precipitation and precipitation amounts for each six-hour period for the next 24 hours, 48 hours, 72 hours, and 96 hours. For each day you do a forecast, do not include forecast information for the forecast date.

From the forecast information recorded, determine if the chance for precipitation is 50 percent or greater within 48 hours of the forecast date, and check the appropriate box.

From the forecast information recorded, determine if the chance for precipitation is 50 percent or greater within 72 hours of the forecast date, and check the appropriate box.

Using the forecasted amounts of precipitation for each six-hour period, add the amounts to determine the cumulative amount of precipitation for a storm event, and record the amount on the form. You may need to use information within the 96-hour forecast to determine storm event forecasted cumulative amount of precipitation. Determine if the forecasted cumulative amount of precipitation for the storm event is ½ inch or greater, and check the appropriate box.

**WPCP/SPPPP IMPLEMENTATION REQUIREMENTS BASED ON WEATHER FORECAST**

- For WPCP projects with the chance for precipitation 50 percent or greater within 48 hours of the forecast date, the water pollution control manager must implement appropriate water pollution control practices.
- For SWPPP projects with the chance for precipitation 50 percent or greater within or 72 hours of the forecast date, the water pollution control manager must implement appropriate water pollution control practices and prepare a Rain Event Action Plan for Risk Level 2 and Risk Level 3 projects.
- For WPCP projects with the forecasted cumulative amount of precipitation for the storm event ½ inch or greater, the water pollution control manager must perform a pre-storm stormwater site inspection within 48 before the storm event.
- For SWPPP projects with the forecasted cumulative amount of precipitation for the storm event ½ inch or greater, the water pollution control manager must perform a visual site-monitoring pre-storm, daily-during-storm, and post-storm inspection. For Risk Level 2 and Risk Level 3, qualifying storm events require daily stormwater discharge sampling and analysis.



Appendix K  
CEM-2041  
Weather Monitoring Form



PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM	
	PROJECT IDENTIFIER NUMBER	
	WDID NUMBER	
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL <input type="checkbox"/> Risk Level 1 <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> Risk Level 3	
SUBMITTED BY CONTRACTOR (PRINT NAME AND SIGN)		DATE

<b>WEATHER MONITORING LOG</b>			
Week of ___/___/___ - ___/___/___			
Weather Information for ___/___/___			
Weather Condition <input type="checkbox"/> Clear <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Cloudy	Temperature Maximum _____ °F Minimum _____ °F	Precipitation Condition <input type="checkbox"/> None <input type="checkbox"/> Heavy rain <input type="checkbox"/> Misty <input type="checkbox"/> Hail <input type="checkbox"/> Light rain <input type="checkbox"/> Snow <input type="checkbox"/> Rain	Wind Condition <input type="checkbox"/> None <input type="checkbox"/> Less than 5 mph <input type="checkbox"/> Greater than 5 mph

<b>Storm Precipitation Information</b>			
<i>Complete the following when there is any precipitation within the 24-hour period.</i>			
Time	Project Site Rain Gauge Reading (inches)	Cumulative Amount Of Precipitation (inches)	Storm Event Information
			Storm event began? _____ on _____ <i>(time) (date)</i> Storm event ended? _____ on _____ <i>(time) (date)</i> <input type="checkbox"/> Extended duration storm event. What is the cumulative amount of precipitation for storm event to date? _____ inches What is the 24-hour cumulative amount of precipitation? _____ inches
			Cumulative amount of precipitation from previous day? _____ inches Is the cumulative amount of precipitation for storm event ½ inch or greater? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes for Risk level 2 and 3 projects are stormwater discharges being sampled and analyzed? <input type="checkbox"/> Yes <input type="checkbox"/> No

<b>Additional Storm Event Information</b>			
Compliance Storm Event		ATS Compliance Storm Event <i>Complete the following when ATS is used on project site</i>	
The compliance storm event (5-year, 24-hour storm) for this project site is: _____ inches	Has the storm event exceeded the compliance storm event? <input type="checkbox"/> Yes <input type="checkbox"/> No	The compliance storm event (5-year, 24-hour storm) for this project site is: _____ inches	Has the storm event exceeded the compliance storm event? <input type="checkbox"/> Yes <input type="checkbox"/> No

If yes to exceedance of the compliance storm event based on project site rain gauge readings, attach printout of precipitation data from nearest National Weather Service weather station as verification of compliance storm exceedance. Verification of project site compliance storm event exceedance from weather station \_\_\_\_\_ is based on project site \_\_\_\_\_  
 (NWS Weather Station) (Address or Latitude and Longitude).

Weather information input by (print name and sign)

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**WEATHER MONITORING LOG**  
 CEM-2041 (NEW 11/2010)

PROJECT INFORMATION NAME AND SITE ADDRESS		CONTRACT NUMBER/CO/RTE/PM		
		PROJECT IDENTIFIER NUMBER		
		WDID NUMBER		
<b>Weather Information for</b> ___/___/___				
Weather Condition <input type="checkbox"/> Clear <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Cloudy	Temperature Maximum _____ °F Minimum _____ °F	Precipitation Condition <input type="checkbox"/> None <input type="checkbox"/> Misty <input type="checkbox"/> Light rain <input type="checkbox"/> Rain <input type="checkbox"/> Heavy rain <input type="checkbox"/> Hail <input type="checkbox"/> Snow	Wind Condition <input type="checkbox"/> None <input type="checkbox"/> Less than 5 mph <input type="checkbox"/> Greater than 5 mph	
<b>Storm Precipitation Information</b>				
<i>Complete the following when there is any precipitation within the 24-hour period.</i>				
Time	Project Site Rain Gauge Reading (inches)	Cumulative Amount Of Precipitation (inches)	Storm Event Information	
			Storm event began? _____ on _____ <i>(time) (date)</i>	Storm event ended? _____ on _____ <i>(time) (date)</i>
			<input type="checkbox"/> Extended duration storm event.	What is the 24-hour cumulative amount of precipitation? _____ inches
			Cumulative amount of precipitation from previous day? _____ inches	
			Is the cumulative amount of precipitation for storm event ½ inch or greater? <input type="checkbox"/> Yes <input type="checkbox"/> No	
			If yes for Risk level 2 and 3 projects are stormwater discharges being sampled and analyzed? <input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Additional Storm Event Information</b>				
Compliance Storm Event			ATS Compliance Storm Event <i>Complete the following when ATS is used on project site.</i>	
The compliance storm event (5-year, 24-hour storm) for this project site is: _____ inches	Has the storm event exceeded the compliance storm event? <input type="checkbox"/> Yes <input type="checkbox"/> No	The compliance storm event (10 year 24-hour storm) for this project site is? _____ inches	Has the storm event exceeded the compliance storm event? <input type="checkbox"/> Yes <input type="checkbox"/> No	
If yes to exceedance of the compliance storm event based on project site rain gauge readings, attach printout of precipitation data from nearest National Weather Service weather station as verification of compliance storm exceedance. Verification of project site compliance storm event exceedance from weather station _____ is based on project site _____ <div style="display: flex; justify-content: space-between;"> <span>(NWS Weather Station)</span> <span>(Address or Latitude and Longitude).</span> </div>				
Weather information input by (print name and sign)				

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

Weather Information for ___/___/___			
Weather Condition <input type="checkbox"/> Clear <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Cloudy	Temperature Maximum _____ °F Minimum _____ °F	Precipitation Condition <input type="checkbox"/> None <input type="checkbox"/> Misty <input type="checkbox"/> Light rain <input type="checkbox"/> Rain <input type="checkbox"/> Heavy rain <input type="checkbox"/> Hail <input type="checkbox"/> Snow	Wind Condition <input type="checkbox"/> None <input type="checkbox"/> Less than 5 mph <input type="checkbox"/> Greater than 5 mph

Storm Precipitation Information			
<i>Complete the following when there is any precipitation within the 24-hour period.</i>			
Time	Project Site Rain Gauge Reading (inches)	Cumulative Amount Of Precipitation (inches)	Storm Event Information
			Storm event began? _____ on _____ <i>(time) (date)</i> Cumulative amount of precipitation from previous day? _____ inches Storm event ended? _____ on _____ <i>(time) (date)</i> <input type="checkbox"/> Extended duration storm event. What is the cumulative amount of precipitation for storm event to date? _____ inches What is the 24-hour cumulative amount of precipitation? _____ inches
			Is the cumulative amount of precipitation for storm event ½ inch or greater? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes for Risk level 2 and 3 projects are stormwater discharges being sampled and analyzed? <input type="checkbox"/> Yes <input type="checkbox"/> No

Additional Storm Event Information			
Compliance Storm Event		Active Treatment system(ATS) Compliance Storm Event <i>Complete the following when ATS is used on project site</i>	
The compliance storm event (5-year, 24-hour storm) for this project site is: _____ inches	Has the storm event exceeded the compliance storm event? <input type="checkbox"/> Yes <input type="checkbox"/> No	The compliance storm event (10 year 24-hour storm) for this project site is: _____ inches	Has the storm event exceeded the compliance storm event? <input type="checkbox"/> Yes <input type="checkbox"/> No

If yes to exceedance of the compliance storm event based on project site rain gauge readings, attach printout of precipitation data from nearest National Weather Service weather station as verification of compliance storm exceedance. Verification of project site compliance storm event exceedance from weather station  
 \_\_\_\_\_ is based on project site \_\_\_\_\_  
*(NWS Weather Station) (Address or Latitude and Longitude).*

Weather information input by (print name and sign)

WEATHER MONITORING LOG REVIEW	
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	National Weather Service precipitation data for compliance storm exceedance attached to this log submittal? <input type="checkbox"/> Yes <input type="checkbox"/> No
Water pollution control manager signature	Date

#### GENERAL INFORMATION

- The information shown on this form is required for projects with either a Stormwater Pollution Prevention Plan (SWPPP) or Water Pollution Control Program (WPCP) to document weather forecast for the project site.
- Use this weather monitoring log to record daily weather information for the project site location.
- Complete the weather monitoring log each working day. If the project is a calendar day project (seven working-day week), attach an additional copy of page two so you can report all seven days.
- Weather Monitoring Logs shall be submitted to the resident engineer within five working days of the ending date shown on the weather monitoring log.
- For verifying exceedance of compliance storm, locate the National Weather Service (NWS) automated weather station nearest the project site. NWS weather station locations are available at: <http://www.wrh.noaa.gov/sto/obsmap.php>.
- Print out precipitation data for the nearest NWS weather station for any storm event that exceeds the compliance storm event. NWS weather station precipitation data is available at: <http://www.cnrfc.noaa.gov/awipsProducts/RNOHYDRSA.php>.

#### 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 a PID, write N/A in the field.
- WDID Number  
For projects with Water Pollution Control Program (WPCP) enter "WPCP" in this field.
- Enter the project site street address including city and state or the latitude and longitude used to obtain NWS forecast.
- Weekly Reporting Period  
Enter the first and last working day for the reporting period
- Enter weather monitoring information.
- Enter precipitation information during working hours at least every two hours.
  1. Time
  2. Rain gauge reading
  3. Storm event cumulative precipitation amount
- Using the amounts of precipitation for each two-hour period during working hours and the amount of precipitation during non-working hours to determine the cumulative amount of precipitation for a storm event and record the amount on the form. Determine if the forecasted cumulative amount of precipitation for the storm event is one-half inch or greater and check the appropriate box.
- Compliance Storm Event:  
Compliance Storm Event for Risk Level 3 project site discharges is determined by using the following maps:  
<http://www.wrcc.dri.edu/pcpnfreq/nca5y24.gif>  
<http://www.wrcc.dri.edu/pcpnfreq/sca5y24.gif>
- ATS Compliance Storm Event  
Compliance Storm Event for ATS discharge compliance is determined using the following maps:  
<http://www.wrcc.dri.edu/pcpnfreq/nca10y24.gif>  
<http://www.wrcc.dri.edu/pcpnfreq/sca10y24.gif>
- If the storm event exceeds the compliance storm event, verification of compliance storm event is required based on nearby governmental rain gauge readings. Enter the project site street address including city and state or the latitude and longitude used to determine the nearest NWS weather station and weather station identification.

#### RAIN GAUGE REQUIREMENTS

- The gauge must be monitored every day when any amount of rain has fallen in the previous 24 hours. The first reading should occur at approximately the same time each day to provide a 24-hour storm amount. Capture precipitation data in the early morning after storm events because accumulated precipitation will quickly evaporate when the weather clears.
- The rain gauge monitoring procedure is as follows:
  1. At the specified time of day, read the amount of captured precipitation. The water in the gauge is likely to appear rounded at the surface when observed at eye level—a phenomenon called a *meniscus* caused by water tension. Read the gauge at the center of the meniscus.
  2. Record the reading, including units (inches), before removing the gauge from its base. After recording the value, double-check your reading, empty the gauge, and reset it.
  3. For additional readings taken during the day, **do not empty** the gauge after midday readings. Record the time and the reading on this form. For midday readings, the amount of precipitation entered into the "Project Site Rain Gauge Reading" column is cumulative for the day since the gauge was not emptied during this period.

Appendix L

CEM-2045

Rain Event Action Plan Highway Construction Phase

CEM-2046

Rain Event Action Plan Plant Establishment Phase

CEM 2047

Rain Event Action Plan for Inactive Project



**RAIN EVENT ACTION PLAN—HIGHWAY CONSTRUCTION PHASE**

CEM-2045 (NEW 9/2010)

Page 1 of 7

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM	
	PROJECT IDENTIFIER NUMBER	
	WDID NUMBER	
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL <input type="checkbox"/> Risk Level 1 <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> 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	
Erosion and sediment control provider or subcontractor name and company	Phone number	
	Emergency (24/7) phone number	
Stormwater sampling and testing agent or subcontractor name and company	Phone number	
	Emergency (24/7) phone number	

**Storm Information**

Attach forecasted precipitation information from the National Weather Service Forecast Office website, <http://www.srh.noaa.gov/forecast>.

Project site ZIP code	Date forecast checked	Time forecast checked
Forecast percentage probability of precipitation in 24 hours	Expected precipitation amount	Date
Forecast percentage probability of precipitation in 24 hours	Expected precipitation amount	Date
Forecast percentage probability of precipitation in 24 hours	Expected precipitation amount	Date
Will predicted weather pattern rain event produce 1/2-inch or more rain? <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Note:</b> A qualifying rain event happens when a predicted weather pattern will produce 1/2-inch or more of precipitation. A qualifying rain event will require stormwater visual monitoring site inspections and sampling and analysis of stormwater discharges.	

**ADA Notice**

For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

# RAIN EVENT ACTION PLAN—HIGHWAY CONSTRUCTION PHASE

CEM-2045 (NEW 9/2010)

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

**Activities Associated with Highway Construction Projects**

*Check ALL boxes below that apply to current project site.*

<input type="checkbox"/> Cleaning and grubbing <input type="checkbox"/> Earthwork <input type="checkbox"/> Culvert construction <input type="checkbox"/> Rough grading <input type="checkbox"/> Storm drain Installation <input type="checkbox"/> Utility installation water-gas-sewer <input type="checkbox"/> Structure foundations (including piles) <input type="checkbox"/> Subgrade grading <input type="checkbox"/> Subbase and base placement	<input type="checkbox"/> Finish grading <input type="checkbox"/> Structure construction <input type="checkbox"/> Soundwall construction <input type="checkbox"/> Curbs, gutters, and sidewalks <input type="checkbox"/> Paving operations <input type="checkbox"/> Finishing roadway <input type="checkbox"/> Metal beam guard rail installation <input type="checkbox"/> Sign installation <input type="checkbox"/> Highway electrical work	<input type="checkbox"/> Traffic striping and pavement markings <input type="checkbox"/> Highway planting <input type="checkbox"/> Soil amendments <input type="checkbox"/> Plant establishment <input type="checkbox"/> Material delivery and storage <input type="checkbox"/> Equipment maintenance and fueling <input type="checkbox"/> Erosion and sediment control <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____
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**Subcontractors or Trades Active on Site for Highway Construction**

*Check All boxes below that apply to current project site.*

<input type="checkbox"/> Grading (operating engineers) <input type="checkbox"/> Underground storm drain (operating engineers and laborers) <input type="checkbox"/> Underground utilities (operating engineers and laborers) <input type="checkbox"/> Underground utilities (public or private utility company) <input type="checkbox"/> Pile Installation (pile butts) <input type="checkbox"/> Concrete foundations (carpenters, laborers, and concrete finishers) <input type="checkbox"/> Bar reinforcement placement <input type="checkbox"/> Structure construction (carpenters and laborers) <input type="checkbox"/> Concrete placement (operating engineer, laborers and concrete finishers) <input type="checkbox"/> Hot mix asphalt placement (operating engineers and laborers)	<input type="checkbox"/> Curb, gutter and sidewalk (carpenters, laborers and concrete finishers) <input type="checkbox"/> Lighting and signals (operating engineers and electricians) <input type="checkbox"/> Metal beam guard rail (operating engineers and laborers) <input type="checkbox"/> Signs (operating engineers) <input type="checkbox"/> Traffic striping and pavement markings <input type="checkbox"/> Masonry soundwalls (masons and laborers) <input type="checkbox"/> Erosion and sediment control <input type="checkbox"/> Highway planting <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____
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**Trade (Subcontractor) information Provided**

*Check ALL boxes below that apply to current project site.*

<input type="checkbox"/> Project SWPPP Handout <input type="checkbox"/> Contract Specifications <input type="checkbox"/> Educational Material Handout <input type="checkbox"/> SWPPP Training Workshop	<input type="checkbox"/> Tailgate Meetings <input type="checkbox"/> Poster and Signage <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____
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# RAIN EVENT ACTION PLAN—HIGHWAY CONSTRUCTION PHASE

CEM-2045 (NEW 9/2010)

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

### Predicted Rain-Event-Triggered Actions

Activity	Actions Required Before Predicted Rain Event
Information and Scheduling	<p> <input type="checkbox"/> Project superintendent informed of predicted rain at _____(time) on _____(date).  <input type="checkbox"/> Foreman and subcontractors informed of predicted rain.  <input type="checkbox"/> Erosion control or sediment control provider notified to provide.                 </p> <p> <input type="checkbox"/> Pre-storm crew with at least _____ people  <input type="checkbox"/> Pre-storm crew to start implementing storm event actions by _____ (time) on _____ (date)                 </p> <p> <input type="checkbox"/> Sample collection and testing provider alerted if non-visible pollutant sampling and testing required.                      List of non-visible pollutant sampling locations and parameters:                      1. _____                      2. _____                      3. _____                      4. _____                      5. _____                 </p> <p> <input type="checkbox"/> Check for adequate erosion and sediment control materials are on hand for                 </p> <p> <input type="checkbox"/> Pre-storm required actions  <input type="checkbox"/> Extended storm event maintenance and repair                 </p> <p> <input type="checkbox"/> Review that the BMP site map is updated and provide a copy to erosion and sediment control provider or subcontractor.  <input type="checkbox"/> Other _____  <input type="checkbox"/> Other _____  <input type="checkbox"/> Other _____  <input type="checkbox"/> Other _____                 </p> <hr/> <p style="text-align: center;"><b>Additional Actions Required Before a Qualified Rain Event</b></p> <p> <input type="checkbox"/> Pre-storm stormwater site inspection completed.  <input type="checkbox"/> Listed corrective actions identified by pre-storm stormwater site inspection that must be corrected before storm event on page 7 of this REAP.  <input type="checkbox"/> Staff scheduled for inspections during storm.  <input type="checkbox"/> Erosion control or sediment control provider notified at _____ (time) on _____ (date) to provide crew during the storm event of at least _____  <input type="checkbox"/> The attached contingency plan is to be implemented in the event of flooding:                 </p>

# RAIN EVENT ACTION PLAN—HIGHWAY CONSTRUCTION PHASE

CEM-2045 (NEW 9/2010)

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

**Predicted Rain-Event-Triggered Actions, continued**

Activity	Construction Site Monitoring Program Actions Required Before a Qualified Rain Event
Information and Scheduling	<p><input type="checkbox"/> Review the discharge location site map for the current phase of the project, and include additional non-visible pollutant sampling locations identified during pre-storm stormwater site inspection.</p> <p><input type="checkbox"/> Alert sample collection and testing provider that sampling will be required and provide the following:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Updated discharge location site map</li> <li><input type="checkbox"/> The required number of sampling locations for this phase of the project:                             <ul style="list-style-type: none"> <li><input type="checkbox"/> _____ Discharge points</li> <li><input type="checkbox"/> _____ Run-on locations</li> <li><input type="checkbox"/> _____ Receiving waters for Risk Level 3</li> <li><input type="checkbox"/> _____ Non-visible potential discharge points</li> </ul> </li> </ul> <p>Run-on Sampling Locations</p> <ol style="list-style-type: none"> <li>1. _____</li> <li>2. _____</li> <li>3. _____</li> <li>4. _____</li> <li>5. _____</li> </ol> <p>Discharge Sampling Locations</p> <ol style="list-style-type: none"> <li>1. _____</li> <li>2. _____</li> <li>3. _____</li> <li>4. _____</li> </ol> <p>Receiving Water Sampling Locations</p> <ol style="list-style-type: none"> <li>1. _____</li> <li>2. _____</li> <li>3. _____</li> <li>4. _____</li> </ol> <p><input type="checkbox"/> Identify non-visible pollutant testing locations and parameters on page 3.</p> <p><input type="checkbox"/> Sampling will needed beginning at approximately _____ (time) on _____ (date).</p>

# RAIN EVENT ACTION PLAN—HIGHWAY CONSTRUCTION PHASE

CEM-2045 (NEW 9/2010)

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

**Predicted Rain-Event-Triggered Actions, continued**

Activity	Actions Required Before Predicted Rain Event
Material Storage Areas	<input type="checkbox"/> Material covered or in sheds (ex treated woods and metals) <input type="checkbox"/> Stockpiles covered and perimeter control installed <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____
Waste Management Areas	<input type="checkbox"/> Dumpsters closed <input type="checkbox"/> Drain holes plugged <input type="checkbox"/> Recycling bins covered <input type="checkbox"/> Sanitary stations bermed and protected from tipping <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____
Concrete Rinse Out Areas	<input type="checkbox"/> Wash-out bins covered <input type="checkbox"/> Adequate capacity for rain <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____
Operations	<input type="checkbox"/> Operations to shut down for rain event <ul style="list-style-type: none"> <li><input type="checkbox"/> Grading</li> <li><input type="checkbox"/> Concrete pours</li> <li><input type="checkbox"/> Hot mix asphalt paving</li> <li><input type="checkbox"/> Other _____</li> <li><input type="checkbox"/> Other _____</li> </ul> <input type="checkbox"/> Soil amendments not to be applied within the 24 hours before a rain event <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____

# RAIN EVENT ACTION PLAN—HIGHWAY CONSTRUCTION PHASE

CEM-2045 (NEW 9/2010)

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

**Predicted Rain-Event-Triggered Actions, continued**

Activity	Actions Required Before Predicted Rain Event																				
Secure Site for Storm Event	<input type="checkbox"/> Materials and equipment properly stored and covered. <input type="checkbox"/> Waste and debris disposed in covered dumpsters or removed from site. <input type="checkbox"/> Trenches and excavations protected. <input type="checkbox"/> Perimeter controls around disturbed areas. <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____																				
Site Erosion and Sediment Control BMPs	<input type="checkbox"/> Site perimeter controls are in place. <input type="checkbox"/> Catch basin and drop inlet protection are in place. <input type="checkbox"/> Sediment basins and traps have adequate capacity. <input type="checkbox"/> Deploy temporary perimeter control on inactive areas. <input type="checkbox"/> Deploy temporary perimeter control around active disturbed soil areas and active stockpiles. <input type="checkbox"/> Sweep access roads. <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____																				
Spills and Drips	<input type="checkbox"/> Clean up all spills and drips, including paint, fuel, and oil. <input type="checkbox"/> Empty drip pans. <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____																				
Pre-storm Inspection Identified Corrective Actions	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;"></th> <th style="width: 20%; text-align: center;">Corrective Action Number</th> </tr> </thead> <tbody> <tr><td><input type="checkbox"/> _____</td><td style="text-align: center;">_____</td></tr> </tbody> </table>		Corrective Action Number	<input type="checkbox"/> _____	_____																
	Corrective Action Number																				
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<input type="checkbox"/> _____	_____																				

**RAIN EVENT ACTION PLAN—HIGHWAY CONSTRUCTION PHASE**

CEM-2045 (NEW 9/2010)

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

**Certification of Rain Event Action Plan**

I certify under penalty of law that this Rain Event Action Plan (REAP) will be implemented in accordance with the General Construction Permit by me or under my Direction or supervision. The information contained in this REAP was gathered and evaluated by qualified personnel before submittal. Base 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 CWA provides for significant penalties, including fines and imprisonment for knowingly submitting false material statement, representation or certification.

Water pollution control manager name	Date
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Water pollution control manager signature
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Accepted by resident engineer name	Date
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resident engineer signature
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**RAIN EVENT ACTION PLAN—PLANT ESTABLISHMENT PHASE**

CEM-2046 (NEW 9/2010)

Page 1 of 6

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM	
	PROJECT IDENTIFIER NUMBER	
	WDID NUMBER	
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL	
	<input type="checkbox"/> Risk Level 1 <input type="checkbox"/> Risk Level 2	
Submitted by contractor (print and sign name)		Date
Water pollution control manager name and company name	Phone number	
	Emergency (24/7) phone number	
Erosion and sediment control provider or subcontractor name and company name.	Phone number	
	Emergency (24/7) phone number	
Storm sampling and testing agent or subcontractor name and company	Phone number	
	Emergency (24/7) phone number	

## Storm Information

Attach forecasted precipitation information from the National Weather Service Forecast Office website, <http://www.srh.noaa.gov/forecast>.

Project site ZIP code	Date forecast checked	Time forecast checked
Forecast percentage of probability of precipitation in 24 hours	Expected precipitation amount	Date
Forecast percentage of probability of precipitation in 48 hours	Expected precipitation amount	Date
Forecast percentage of probability of precipitation in 72 hours	Expected precipitation amount	Date
Will predicted weather pattern rain event produce one-half inch or more of rain? <input type="checkbox"/> Yes <input type="checkbox"/> No	Note: A qualifying rain event occurs when a predicted weather pattern will produce one-half inch or more of precipitation. A qualifying rain event requires stormwater visual monitoring, site inspections, and sampling and analysis of stormwater discharges.	

# RAIN EVENT ACTION PLAN—PLANT ESTABLISHMENT PHASE

CEM-2046 ( NEW 9/2010)

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

**Activities Associated with Highway Construction Projects**

*Check ALL boxes that apply to current project site.*

<input type="checkbox"/> Highway planting  <input type="checkbox"/> Soil amendments  <input type="checkbox"/> Plant establishment	<input type="checkbox"/> Material delivery and storage  <input type="checkbox"/> Equipment maintenance and fueling  <input type="checkbox"/> Erosion and sediment control	Other _____  Other _____  Other _____
---	---	---

**Subcontractors or Trades Active on Site for Highway Construction**

*Check ALL boxes that apply to current project site.*

<input type="checkbox"/> Erosion and sediment control  <input type="checkbox"/> Highway planting	Other _____  Other _____
--	--------------------------------

**Trade (Subcontractor) Information Provided**

*Check ALL boxes that apply to current project site.*

<input type="checkbox"/> Project SWPPP handout  <input type="checkbox"/> Contract specifications  <input type="checkbox"/> Educational material handout  <input type="checkbox"/> SWPPP training workshop	<input type="checkbox"/> Tailgate meetings  <input type="checkbox"/> Posters and signage  Other _____  Other _____
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# RAIN EVENT ACTION PLAN—PLANT ESTABLISHMENT PHASE

CEM-2046 ( NEW 9/2010)

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

**Predicted Rain-Event-Triggered Actions**

Activity	Actions Required Before Predicated Likely Rain Event
Information and Scheduling	<div style="margin-bottom: 10px;"> <input type="checkbox"/> Project superintendent informed of predicted rain at _____ (time) on _____ (date).                 </div> <div style="margin-bottom: 10px;"> <input type="checkbox"/> Foreman and subcontractors informed of predicted rain.                 </div> <div style="margin-bottom: 10px;"> <input type="checkbox"/> Erosion control or sediment control provider notified to provide.                 <div style="margin-left: 20px; margin-top: 5px;"> <input type="checkbox"/> Pre-storm crew with at least _____ people                     </div> <div style="margin-left: 20px; margin-top: 5px;"> <input type="checkbox"/> Pre-storm crew to start implementing storm event actions by _____ (time) on _____ (date)                     </div> </div> <div style="margin-bottom: 10px;"> <input type="checkbox"/> Sample collection and testing provider alerted if non-visible pollutant sampling and testing required.                 </div> <div style="margin-bottom: 10px;">                     List of non-visible pollutant sampling locations and parameters:                     <ol style="list-style-type: none"> <li>1. _____</li> <li>2. _____</li> <li>3. _____</li> <li>4. _____</li> <li>5. _____</li> </ol> </div> <div style="margin-bottom: 10px;"> <input type="checkbox"/> Check for adequate erosion and sediment control materials are on hand for                 <div style="margin-left: 20px; margin-top: 5px;"> <input type="checkbox"/> Pre-storm required actions.                     </div> <div style="margin-left: 20px; margin-top: 5px;"> <input type="checkbox"/> Extended storm event maintenance and repair.                     </div> </div> <div style="margin-bottom: 10px;"> <input type="checkbox"/> Review that the BMP site map is updated, and provide a copy to erosion and sediment control provider or subcontractor.                 </div> <div style="margin-bottom: 10px;"> <input type="checkbox"/> Other _____                 </div>

**RAIN EVENT ACTION PLAN—PLANT ESTABLISHMENT PHASE**

CEM-2046 ( NEW 9/2010)

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

**Predicted Rain-Event-Triggered Actions, Continued**

Activity	Construction Site Monitoring Program Actions Required Before a Qualified Rain Event
Information and Scheduling	<p><input type="checkbox"/> Review the discharge location site map for the current phase of the project. Include additional non-visible pollutant sampling locations identified during pre-storm stormwater site inspection.</p> <p><input type="checkbox"/> Alert sample collection and testing provider that sampling will be required and provide the following:</p> <p style="margin-left: 20px;"><input type="checkbox"/> Updated discharge location site map</p> <p><input type="checkbox"/> The required number of sampling locations for this phase of the project:</p> <p style="margin-left: 40px;"><input type="checkbox"/> _____ Discharge points</p> <p style="margin-left: 40px;"><input type="checkbox"/> _____ Run-on locations</p> <p style="margin-left: 40px;"><input type="checkbox"/> _____ Receiving waters for Risk Level 3</p> <p style="margin-left: 40px;"><input type="checkbox"/> _____ Non-visible potential discharge points</p> <p>Discharge sampling locations</p> <p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p> <p>Run-on sampling locations</p> <p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>Receiving water sampling locations</p> <p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p><input type="checkbox"/> Identify non-visible pollutant testing locations and parameters on page 3.</p> <p><input type="checkbox"/> Sampling will need to begin at approximately _____ (time) on _____ (date).</p>

**RAIN EVENT ACTION PLAN— PLANT ESTABLISHMENT PHASE**

CEM-2046 (NEW 9/2010)

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

**Predicted Rain-Event-Triggered Actions, continued**

Activity	Actions Required Before Predicted Likely Rain Event
Material Storage Areas	<input type="checkbox"/> Material covered or in sheds (for example, treated woods and metals). <input type="checkbox"/> Stockpiles covered and perimeter control installed. <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____
Waste Management Areas	<input type="checkbox"/> Dumpsters closed. <input type="checkbox"/> Drain holes plugged. <input type="checkbox"/> Recycling bins covered. <input type="checkbox"/> Sanitary stations bermed and protected from tipping. <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____
Operations	<input type="checkbox"/> Operations to shut down for rain event: <input type="checkbox"/> Highway planting <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____ <input type="checkbox"/> Soil amendments not to be applied within the 24 hours before a rain event. <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____
Secure Site for Storm Event	<input type="checkbox"/> Materials and equipment properly stored and covered. <input type="checkbox"/> Waste and debris disposed in covered dumpsters or removed from site. <input type="checkbox"/> Trenches and excavations protected. <input type="checkbox"/> Perimeter controls placed around disturbed areas. <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____
Spills and Drips	<input type="checkbox"/> Clean up all spills and drips, including paint, fuel, and oil. <input type="checkbox"/> Empty drip pans. <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____

# RAIN EVENT ACTION PLAN— PLANT ESTABLISHMENT PHASE

CEM-2046 (NEW 9/2010)

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

**Predicted Rain-Event-Triggered Actions, continued**

Activity	Actions Required Before Predicted Likely Rain Event, continued
Site Erosion and Sediment Control BMPs	<input type="checkbox"/> Site perimeter controls are in place. <input type="checkbox"/> Catch basin and drop inlet protection are in place. <input type="checkbox"/> Sediment basins and traps have adequate capacity. <input type="checkbox"/> Temporary perimeter control deployed on inactive areas. <input type="checkbox"/> Temporary perimeter control deployed around disturbed areas and stockpiles. <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____
Pre-Storm Inspection Identified Corrective Actions	<p align="right">Corrective Action Number</p> <input type="checkbox"/> _____ <input type="checkbox"/> _____

**Certification of Rain Event Action Plan**

I certify under penalty of law that this Rain Event Action Plan (REAP) will be implemented in accordance with the General Construction Permit by me or under my direction or supervision. The information contained in this REAP 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 CWA provides for significant penalties, including fines and imprisonment for knowingly submitting false material statement, representation or certification.

Water pollution control manager name	Date
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Water pollution control manager signature

Accepted by resident engineer name	Date
------------------------------------	------

Resident engineer signature

**RAIN EVENT ACTION PLAN—INACTIVE PROJECT**

CEM-2047 (NEW 9/2010)

Page 1 of 6

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM	
	PROJECT IDENTIFIER NUMBER	
	WDID NUMBER	
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL <input type="checkbox"/> Risk Level 1 <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> 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	
Erosion and sediment control provider or subcontractor name and company	Phone number	
	Emergency (24/7) phone number	
Stormwater sampling and testing agent or subcontractor name and company	Phone number	
	Emergency (24/7) phone number	

**Storm Information**

Attach forecasted precipitation information from the National Weather Service Forecast Office website, <http://www.srh.noaa.gov/forecast>.

Project site ZIP code	Date forecast checked	Time forecast checked
Forecast percentage probability of precipitation in 24 hours	Expected precipitation amount	Date
Forecast percentage probability of precipitation in 48 hours	Expected precipitation amount	Date
Forecast percentage probability of precipitation in 72 hours	Expected precipitation amount	Date
Will predicted weather pattern rain event produce 1/2-inch or more rain?  <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Note:</b> A qualifying rain event occurs when a predicted weather pattern will produce one-half inch or more of precipitation. A qualifying rain event requires stormwater visual monitoring site inspections and sampling and analysis of stormwater discharges.	

# RAIN EVENT ACTION PLAN—INACTIVE PROJECT

CEM-2047 (NEW 9/2010)

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

**Activities Associated with Highway Construction Projects**

*Check ALL boxes below that apply to current project site.*

<input type="checkbox"/> Erosion and sediment control	<input type="checkbox"/> Other _____	<input type="checkbox"/> Other _____
<input type="checkbox"/> Material delivery and storage	<input type="checkbox"/> Other _____	<input type="checkbox"/> Other _____

**Subcontractors or Trades Active on Site for Highway Construction**

*Check All boxes below that apply to current project site.*

<input type="checkbox"/> Erosion and sediment control	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Other _____

**Trade (Subcontractor) Information Provided**

*Check All boxes below that apply to current project site.*

<input type="checkbox"/> Project SWPPP handout	<input type="checkbox"/> Tailgate meetings
<input type="checkbox"/> Contract specifications	<input type="checkbox"/> Posters and signage
<input type="checkbox"/> Educational material handout	<input type="checkbox"/> Other _____
<input type="checkbox"/> SWPPP training workshop	<input type="checkbox"/> Other _____

# RAIN EVENT ACTION PLAN—INACTIVE PROJECT

CEM-2047 (NEW 9/2010)

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

### Predicted Rain-Event-Triggered Actions

Activity	Actions Required Before Predicted Rain Event
Information and Scheduling	<p> <input type="checkbox"/> Project superintendent informed of predicted rain at _____(time) on _____(date).  <input type="checkbox"/> Foreman and subcontractors informed of predicted rain.  <input type="checkbox"/> Erosion control or sediment control provider notified to provide.                 <ul style="list-style-type: none"> <li><input type="checkbox"/> Pre-storm crew with at least _____ people</li> <li><input type="checkbox"/> Pre-storm crew to start implementing storm event actions by _____(time) on _____(date)</li> </ul> <p>If non-visible pollutant sampling and testing are required, alert sample collection and testing provider. List of non-visible pollutant sampling locations and parameters:</p> <ol style="list-style-type: none"> <li>1. _____</li> <li>2. _____</li> <li>3. _____</li> <li>4. _____</li> </ol> <p> <input type="checkbox"/> Check for adequate erosion and sediment control materials are on hand for:                 <ul style="list-style-type: none"> <li><input type="checkbox"/> Pre-storm required actions.</li> <li><input type="checkbox"/> Extended storm event maintenance and repair.</li> </ul> <input type="checkbox"/> Review the BMP site map updates, and provide a copy to erosion and sediment control provider or subcontractor.  <input type="checkbox"/> Other _____             </p> <hr/> <p><b>Construction Site Monitoring Program Actions Required Before a Forecasted Qualifying Rain Event</b></p> <input type="checkbox"/> Pre-storm stormwater site inspection completed.  <input type="checkbox"/> Listed corrective actions identified by pre-storm stormwater site inspection that must be corrected before storm event on page 6 of this REAP.  <input type="checkbox"/> Staff scheduled for inspections during storm.  <input type="checkbox"/> Erosion control or sediment control provider notified at _____(time) on _____(date) to provide crew of at least _____ people during the storm event.  <input type="checkbox"/> The attached contingency plan is to be implemented in the event of flooding.             </p>

# RAIN EVENT ACTION PLAN—INACTIVE PROJECT

CEM-2047 (NEW 9/2010)

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

**Predicted Rain-Event-Triggered Actions, continued**

Activity	Construction Site Monitoring Program Actions Required Before A Forecasted Qualifying Rain Event
Information and Scheduling	<p><input type="checkbox"/> Review the discharge location site map for the current phase of the project, and include additional non-visible pollutant sampling locations identified during pre-storm stormwater site inspection.</p> <p><input type="checkbox"/> Alert sample collection and testing provider that sampling will be required and provide the following:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Updated discharge location site map</li> <li><input type="checkbox"/> The required number of sampling locations for this phase of the project                             <ul style="list-style-type: none"> <li><input type="checkbox"/> _____ Discharge points</li> <li><input type="checkbox"/> _____ Run-on locations</li> <li><input type="checkbox"/> _____ Receiving waters for Risk Level 3</li> <li><input type="checkbox"/> _____ Non-visible potential discharge points</li> </ul> </li> </ul> <p>Discharge sampling locations</p> <p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p> <p>Run-on sampling locations</p> <p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>Receiving water sampling locations</p> <p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p><input type="checkbox"/> Identify non-visible pollutant testing locations and parameters on page 3.</p> <p><input type="checkbox"/> Sampling will needed beginning at approximately _____ (time) on _____ (date).</p>

**RAIN EVENT ACTION PLAN—INACTIVE PROJECT**

CEM-2047 (NEW 9/2010)

Page 5 of 6

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

**Predicted Rain-Event-Triggered Actions, continued**

Activity	Actions Required Before Predicted Rain Event
Material Storage Areas	<input type="checkbox"/> Material covered or in sheds (for example, treated woods and metals) <input type="checkbox"/> Stockpiles covered and perimeter control installed <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____
Waste Management Areas	<input type="checkbox"/> Dumpsters closed <input type="checkbox"/> Drain holes plugged <input type="checkbox"/> Recycling bins covered <input type="checkbox"/> Sanitary stations bermed and protected from tipping <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____
Secure Site for Storm Event	<input type="checkbox"/> Materials and equipment properly stored and covered <input type="checkbox"/> Waste and debris disposed in covered dumpsters or removed from site <input type="checkbox"/> Trenches and excavations protected <input type="checkbox"/> Perimeter controls around disturbed areas <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____
Spills and Drips	<input type="checkbox"/> Clean up all spills and drips, including paint, fuel, and oil <input type="checkbox"/> Empty drip pans <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____

**ADA Notice**

For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

# RAIN EVENT ACTION PLAN—INACTIVE PROJECT

CEM-2047 (NEW 9/2010)

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

**Predicted Rain-Event-Triggered Actions, continued**

Activity	Actions Required Before Predicted Rain Event
<p>Site Erosion and Sediment Control BMPs</p>	<p><input type="checkbox"/> Site perimeter controls are in place.</p> <p><input type="checkbox"/> Catch basin and drop inlet protection is in place.</p> <p><input type="checkbox"/> Sediment basins and traps have adequate capacity.</p> <p><input type="checkbox"/> Temporary perimeter control deployed on inactive areas.</p> <p><input type="checkbox"/> Temporary perimeter control deployed around disturbed areas and stockpiles.</p> <p><input type="checkbox"/> Roads swept..</p> <p><input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Other _____</p>
<p>Pre-storm Inspection Identified Corrective Actions</p>	<p><input type="checkbox"/> _____</p>

**Certification of Rain Event Action Plan**

I certify under penalty of law that this Rain Event Action Plan (REAP) will be implemented in accordance with the General Construction Permit by me or under my direction or supervision. The information contained in this REAP 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 CWA provides for significant penalties, including fines and imprisonment for knowingly submitting false material statement, representation or certification.

Water pollution control manager name	Date
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Water pollution control manager signature

Accepted by resident engineer name	Date
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Resident engineer signature



Appendix M  
CEM-2061  
Notice of Discharge Report Form



**NOTICE OF DISCHARGE REPORT**

CEM-2061 (REV. 12/2010)

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 <input type="checkbox"/> Risk Level 1 <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> Risk Level 3
Submitted by contractor (print and sign name)	Date

**Notice of Discharge General Information**

Location			Date discharge discovered		
Discharge identified by stormwater visual site inspection? <input type="checkbox"/> YES <input type="checkbox"/> NO	Discharge discovered by contractor during daily work? <input type="checkbox"/> YES <input type="checkbox"/> NO	Discharge samples taken? <input type="checkbox"/> YES <input type="checkbox"/> NO	Discharge type <input type="checkbox"/> Stormwater <input type="checkbox"/> Authorized non-stormwater <input type="checkbox"/> Non-authorized non-stormwater	Exceedance of applicable water quality standard <input type="checkbox"/> Turbidity <input type="checkbox"/> pH <input type="checkbox"/> _____	
Discharge identified by Regional Water Quality Control Board? <input type="checkbox"/> YES <input type="checkbox"/> NO	Discharge identified by State Water Resources Control Board? <input type="checkbox"/> YES <input type="checkbox"/> 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  _____ <i>Date</i>  _____ <i>Time</i>	End of storm event  _____ <i>Date</i>  _____ <i>Time</i>	Duration of storm event  _____ <i>Hours : Minutes.</i>	Storm event precipitation amount recorded from site rain gauge  _____ <i>inches</i>	Storm event precipitation amount recorded from governmental rain gauge  _____ <i>inches</i>
--	--	---	---	---

**Notice of Discharge Information**

The nature and cause of the water quality standard exceedance, base on a visual observation of the discharge location	Photographs <input type="checkbox"/> YES <input type="checkbox"/> NO
BMPs currently installed at the location of the discharge	<input type="checkbox"/> YES <input type="checkbox"/> NO
Additional BMPs that will be implemented to prevent or reduce pollutants causing or contributing to exceedance of a water quality standard	<input type="checkbox"/> YES <input type="checkbox"/> NO
Implementation schedule for additional BMPs	<input type="checkbox"/> YES <input type="checkbox"/> NO

**NOTICE OF DISCHARGE REPORT**

CEM-2061 (REV. 12/2010)

Page 2 of 4

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

**Notice of Discharge Information (continued)**

Photographs

Maintenance or repair of BMPs	<input type="checkbox"/> YES <input type="checkbox"/> NO
Implementation schedule for BMPs maintenance or repair	
Other required corrective actions	<input type="checkbox"/> YES <input type="checkbox"/> NO
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 Results***Required when discharge samples are taken*

Sample location Identification number	Date of sampling		
Samples collected by	Date of analysis		
Samples analyzed by	Date and time water pollution control manager notified of results		
Analyzer phone number	Date and time resident engineer notified of results		
Sample Identification	Sample Collection Time	Storm Event Precipitation Amount at Sample Time (inches)	Analysis (_____)

**Analysis Information**

Meter manufacturer	Model number	Serial number	Calibration date
Analytical method	Method reporting unit		Method detection limit

*Note: Meter calibration information available in the SWPPP files.*

**NOTICE OF DISCHARGE REPORT**

CEM-2061 (REV. 12/2010)

Page 3 of 4

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

**Sampling and Analysis Results***Required when when run-on or upgradient samples are taken*

Run-on or upgradient samples taken? <input type="checkbox"/> YES <input type="checkbox"/> NO	Sample location Identification number	Date of sampling	
Sample Identification	Sample Collection Time	Storm Event Precipitation Amount at Sample Time (inches)	Analysis (_____)

**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		
Accepted by resident engineer (name)	Date	
Resident engineer signature		
Discharge reported by telephone or email to the Regional Water Quality Control Board (RWQCB) within 48 hours of discovery? <input type="checkbox"/> YES <input type="checkbox"/> NO	Date discharge reported to RWQCB	Resident engineer initials
Notice of Discharge Report submitted to RWQCB within 14 days (3 days for District 7 and District 11)? <input type="checkbox"/> YES <input type="checkbox"/> NO	Date report submitted to RWQCB	Resident engineer initials

**NOTICE OF DISCHARGE REPORT**

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## Instructions

**General Information**

- This form is required for compliance with provisions in Section C-2, "Receiving Water Limitations for Construction," 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 (Caltrans), Order No. 99-06-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.
- 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*.
- Include a copy of the completed form in the project Storm Water Pollution Prevention Plan (SWPPP) files.

**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 or 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 or 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?
- **Addition Information**  
Leave run-on sample identification blank if no box is checked for run-on samples taken.

Appendix N  
CEM-2048  
Storm Event Sampling and Analysis Plan



**STORM EVENT SAMPLING AND ANALYSIS PLAN**

CEM-2048 (NEW 2/2011)

Page 1 of 6

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER
	WDID NUMBER
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL <input type="checkbox"/> Risk Level 1 <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> Risk Level 3
SUBMITTED BY CONTRACTOR (PRINT AND SIGN NAME)	DATE

**Storm Event Sampling and Analysis Plan*****Weather Forecast Information***

Weather Forecast at \_\_\_\_\_ (time) \_\_\_\_\_ (date)

24-Hour Forecast	48-Hour Forecast	72-Hour Forecast	24-Hour Forecast
Date	Date	Date	Date
Chance of Precipitation %	Chance of Precipitation %	Chance of Precipitation %	Forecasted cumulative amount of precipitation for storm event 1/2 inch or greater? <input type="checkbox"/> Yes <input type="checkbox"/> No
Amount of Precipitation Inches	Amount of Precipitation Inches	Amount of Precipitation Inches	

If yes and the project is Risk Level 1, complete this form.

If yes and the project is Risk Level 2 or 3, stop here and use form CEM-2049, "Qualifying Rain Event Sampling and Analysis Plan."

If no, complete this form.

**Sampling Schedule**

Based on the weather forecast, stormwater discharge sampling is required to begin on \_\_\_\_\_ (date) at approximately \_\_\_\_\_ (time)

Stormwater discharge sampling is required every 24 hours during an extended storm event, so based on the predicted duration of the storm event, it is required on the following dates:

\_\_\_\_\_

The order in which stormwater discharge sample location will be sampled:

- Numeric order by location number
- Reverse numeric order by location number
- The following specified order \_\_\_\_\_

Reason for specified sampling order

**ADA Notice**

For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.



**STORM EVENT SAMPLING AND ANALYSIS PLAN**

CEM-2048 (NEW 2/2011)

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

**Storm Event Sampling and Analysis Plan Certification**

I certify under penalty of law that this Storm Event Sampling and Analysis Plan was prepared by me or under my direction or supervision. The information contained in the summary 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
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Water pollution control manager signature
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**Storm Event Sampling and Analysis Plan Review**

Reviewed by resident engineer (name)	Date
--------------------------------------	------

Resident engineer signature
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**STORM EVENT SAMPLING AND ANALYSIS PLAN**

CEM-2048 (NEW 2/2011)

Page 4 of 6

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

**STORM EVENT SAMPLING AND ANALYSIS WORKSHEETS****Worksheet for Determining Non-Visible Pollutant Storm Event Sampling and Analysis Plan*****Determining Non-Visible Pollutant Sampling Locations***

Instructions: Enter potential non-visible pollutant sampling locations from SWPPP Attachment EE. From pre-storm site visual monitoring inspection, determine if pollutant source is present, and check the appropriate box. For each potential non-visible sampling location, determine from the pre-storm site visual monitoring inspection if any criteria for triggering sampling and analysis for non-visible pollutant are met, and check the appropriate box in the "Pre-storm site inspection identified trigger for sampling?" column.

The five triggers for sampling non-visible pollutant sampling locations:

1. Materials or waste containing non-visible pollutants are not stored under watertight conditions.
2. Materials or waste containing non-visible pollutants are stored under watertight conditions, but (1) a breach, malfunction, leakage, or spill is observed, (2) the leak or spill is not cleaned up before the storm event, or (3) the potential for a discharge of non-visible pollutants exists.
3. A construction activity with potential to contribute non-visible pollutants (1) was occurring within 24 hours before the storm event; (2) applicable BMPs were observed to be breached, malfunctioning, or improperly implemented; and (3) the potential for a discharge of non-visible pollutants exists.
4. Soil amendments have been applied, and the potential for a discharge of non-visible pollutants exists.
5. Stormwater runoff from an area contaminated by historic use of the site has the potential to combine with stormwater runoff from the site, and the potential for a discharge of non-visible pollutants exists.

***Non-Visible Pollutant Sampling Required?***

- No—If no pollutant sources are present, sampling stormwater discharges for non-visible pollutants is not required.
- No—If pre-storm site visual monitoring inspection identified no triggers, sampling stormwater discharges for non-visible pollutants is not required.
- Yes—If the pollutant source is present and the answer to a trigger question is yes, check the box in the "Storm Event Sample Location" column.





Appendix O  
CEM-2049  
Qualifying Rain Event Sampling and Analysis Plan



PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM	
	PROJECT IDENTIFIER NUMBER	
	WDID NUMBER	
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL <input type="checkbox"/> Risk Level 1 <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> Risk Level 3	
Submitted by contractor (print and sign name)		Date

**Qualifying Rain Event Sampling and Analysis Plan**

**Weather Forecast Information**

Weather forecast at \_\_\_\_\_ (time) \_\_\_\_\_ (date)

24-hour Forecast	48-hour Forecast	72-hour Forecast	Forecasted Amount of Precipitation
Date	Date	Date	What is the forecasted cumulative amount of precipitation for storm event? _____ inches
% Chance of Precipitation	% Chance of Precipitation	% Chance of Precipitation	
			Is the forecasted cumulative amount of precipitation for storm event ½ inch or greater?  <input type="checkbox"/> Yes <input type="checkbox"/> No
Amount of Precipitation in Inches	Amount of Precipitation in Inches	Amount of Precipitation in Inches	

If yes and the project is Risk Level 2 or Risk Level 3, complete this form.  
 If yes and the project is Risk Level 1, stop here and use CEM-2048, "Storm Event Sampling and Analysis Plan."  
 If no, stop here and use CEM-2048, "Storm Event Sampling and Analysis Plan."

**Sampling Schedule**

Based on the weather forecast, stormwater discharge sampling is required to begin on \_\_\_\_\_ (date) at approximately \_\_\_\_\_ (time)

Stormwater discharge sampling is required every 24 hours during an extended storm event, so based on the predicted duration of the storm event, it is required on the following dates:

\_\_\_\_\_

Does stored or contained stormwater from a previous qualifying rain event need to be sampled before being discharged?

Yes    No   If yes, notify the sampling and analysis provider.

The order in which stormwater discharge sample location will be sampled

- Numeric order by location number
- Reverse numeric order by location number
- The following specified order \_\_\_\_\_

Reason for specified sampling order \_\_\_\_\_

\_\_\_\_\_

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

**Qualifying Rain Event Sampling and Analysis Plan**  
 Complete "Qualifying Rain Event sampling and Analysis Plan Worksheet" to determine sampling locations for storm event.

**Non-Visible Pollutant Sampling Locations**

- No sampling locations exist for non-visible pollutants for this storm event.  
 Table 1 shows non-visible pollutant sampling locations for this storm event.

**Table 1 Rain Event Non-Visible Pollutant Sampling Locations**

Location Number	Uncontaminated Location Number	Location	Sample Type	Water Quality Indicator Constituent	Analysis

**Stormwater Discharge Sampling Locations**

- No sampling locations for turbidity and pH exist for this storm event.  
 Table 2 shows sampling locations for required turbidity and pH analysis, optional SSC analysis, and other analysis for this storm event.

**Table 2 Storm Event Sampling Locations for Turbidity and pH**

Location Number	Location	Required Analysis	Optional Analysis
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> SSC <input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> SSC <input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> SSC <input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> SSC <input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> SSC <input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> SSC <input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> SSC <input type="checkbox"/> Other

Other Analyses Required \_\_\_\_\_

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**QUALIFYING RAIN EVENT SAMPLING AND ANALYSIS PLAN**  
 CEM-2049 (NEW 10/2010)

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

**Project Site Run-on Sampling Locations**

- No project site run-on locations to be sampled exist for this storm event.  
 Table 3 shows sampling locations for project site run-on for this storm event.

**Table 3 Qualifying Rain Event Project Site Run-on Sampling Locations**

Location Number	Location	Required Analysis	Optional Analysis
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> SSC <input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> SSC <input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> SSC <input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> SSC <input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> SSC <input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> SSC <input type="checkbox"/> Other

Other Analyses Required \_\_\_\_\_

**Receiving Water Sampling Locations**

- No receiving water locations to be sampled exist for this storm event.  
 Table 3 shows receiving water sampling locations for this storm event.

**Table 4 Receiving Water Sampling Locations**

Location Number	Location	Required Analysis	Optional Analysis
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> SSC <input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> SSC <input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> SSC <input type="checkbox"/> Other
		<input type="checkbox"/> Turbidity <input type="checkbox"/> pH	<input type="checkbox"/> SSC <input type="checkbox"/> Other

Other Analyses Required: \_\_\_\_\_

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**QUALIFYING RAIN EVENT SAMPLING AND ANALYSIS PLAN**  
 CEM-2049 (NEW 10/2010)

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

**Table 5 Sampling Locations for Rain Event Listed in Numeric Order**

Number	Location Number	QCOA									
1		<input type="checkbox"/>	11		<input type="checkbox"/>	21		<input type="checkbox"/>	31		<input type="checkbox"/>
2		<input type="checkbox"/>	12		<input type="checkbox"/>	22		<input type="checkbox"/>	32		<input type="checkbox"/>
3		<input type="checkbox"/>	13		<input type="checkbox"/>	23		<input type="checkbox"/>	33		<input type="checkbox"/>
4		<input type="checkbox"/>	14		<input type="checkbox"/>	24		<input type="checkbox"/>	34		<input type="checkbox"/>
5		<input type="checkbox"/>	15		<input type="checkbox"/>	25		<input type="checkbox"/>	35		<input type="checkbox"/>
6		<input type="checkbox"/>	16		<input type="checkbox"/>	26		<input type="checkbox"/>	36		<input type="checkbox"/>
7		<input type="checkbox"/>	17		<input type="checkbox"/>	27		<input type="checkbox"/>	37		<input type="checkbox"/>
8		<input type="checkbox"/>	18		<input type="checkbox"/>	28		<input type="checkbox"/>	38		<input type="checkbox"/>
9		<input type="checkbox"/>	19		<input type="checkbox"/>	29		<input type="checkbox"/>	39		<input type="checkbox"/>
10		<input type="checkbox"/>	20		<input type="checkbox"/>	30		<input type="checkbox"/>	40		<input type="checkbox"/>

**Qualifying Rain Event Sampling and Analysis Plan Certification**

I certify under penalty of law that this Storm Event Sampling and Analysis Plan was prepared by me or under my direction or supervision. The information in the summary 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

**Qualifying Rain Event Sampling and Analysis Plan Review**

Reviewed by resident engineer (name)	Date
--------------------------------------	------

Resident engineer signature

PROJECT NAME	CONTRACT NUMBER/CO/RTE/PM:
WATER POLLUTION CONTROL MANAGER NAME	PROJECT IDENTIFIER NUMBER
WATER POLLUTION CONTROL MANAGER SIGNATURE	WDID NUMBER:
	DATE
<b>Qualifying Rain Event Sampling and Analysis Plan Worksheets</b>	

***Determining Non-Visible Pollutant Sampling Locations***

Instructions Enter the potential non-visible pollutant sampling locations from SWPPP Attachment EE. From pre-storm site visual monitoring inspection, determine if the pollutant source is present and check the appropriate box. For each potential non-visible sampling location, determine from the pre-storm site visual monitoring inspection if any of the five criteria for triggering sampling and analysis for non-visible pollutant are met and check the appropriate box in “Pre-storm site inspection identified trigger for sampling?” column.

The five triggers for sampling non-visible pollutant sampling locations are:

1. Materials or waste containing non-visible pollutants are not stored under watertight conditions.
2. Materials or waste containing non-visible pollutants are stored under watertight conditions, but (1) a breach, malfunction, leakage, or spill is observed, (2) the leak or spill is not cleaned up before the storm event, and (3) a potential exists for discharge of non-visible pollutants.
3. A construction activity with potential to contribute non-visible pollutants (1) was occurring within 24 hours before the storm event; (2) applicable BMPs were observed to be breached, malfunctioning, or improperly implemented; and (3) a potential exists for discharge of non-visible pollutants.
4. Soil amendments have been applied and the potential exists for a discharge of non-visible pollutants.
5. Stormwater runoff from an area contaminated by historic site use has the potential to combine with stormwater runoff from the site and potential exists for a discharge of non-visible pollutants.

Non-Visible Pollutant Sampling Required?

- No—If no pollutant sources are present, sampling stormwater discharges for non-visible pollutants is not required.
- No—If pre-storm site visual monitoring inspection identified no triggers that require sampling for non-visible pollutants, sampling stormwater discharges for non-visible pollutants is not required.
- Yes—If the pollutant source is present and the answer to a trigger question is “yes,” check the box in the “Storm Event Sample Location” column.

PROJECT NAME	CONTRACT NUMBER/CO/RTE/PM
WATER POLLUTION CONTROL MANAGER NAME	PROJECT IDENTIFIER NUMBER
DATE	WDID NUMBER

**Qualifying Rain Event Sampling and Analysis Plan Worksheets, continued**

**Table A Potential Project Site Non-Visible Pollutant Sampling Locations**

Location Number	Uncontaminated Location Number	Location	Pollutant Source	Active pollutant source exists?	Pre-storm site inspection identified trigger for sampling?	Storm Event Sample Location
				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>

Enter into Table 1 on CEM-2049, "Qualifying Rain Event Sampling and Analysis Plan," all locations checked in the "Storm Event Sample Location" column of the Table A worksheet. Refer to SWPPP Attachment EE to determine pollutant and water quality indicator constituent and SWPPP Section 700.X.X for information to complete Table 1.

**Worksheet for Determining Non-Visible Pollutant Rain Event Sampling and Analysis Plan  
 for Locations Identified by Pre-Storm Site Monitoring Inspection Not Shown on SWPPP Attachment EE**

Instruction List any project site non-visible sampling location identified by pre-storm site visual monitoring in Table B not identified in SWPPP Attachment EE Table, "Potential Sampling Locations for Non-visible Pollutants." Determine pollutant source, pollutant, and water quality indicator constituent, and enter the information into Table B.

**Table B Non-Visible Pollutant Sampling Locations Identified by Pre-Storm Site Inspection**

Location Number	Uncontaminated Location Number	Location	Pollutant Source	Pollutant	Water Quality Indicator Constituent

Enter the information from worksheet Table B into Table 1 on CEM-2049, "Qualifying Rain Event Sampling and Analysis Plan."

PROJECT NAME	CONTRACT NUMBER/CO/RTE/PM
WATER POLLUTION CONTROL MANAGER NAME	PROJECT IDENTIFIER NUMBER
DATE	WDID NUMBER
<b>Qualifying Rain Event Sampling and Analysis Plan Worksheets, continued</b>	
<b>Worksheet for Determining Rain Event Sampling Locations for Turbidity and pH for Risk Level 2 and Risk Level 3 Projects for Qualifying Rain Events</b>	

***Determining Sampling Locations Based on Turbidity***

**Instructions** List on Table C all project stormwater discharge sampling location shown in SWPPP Attachment EE Table, "Project Site Discharge Sampling Locations for Turbidity and pH." Basing your decision on pre-storm site visual monitoring inspection, determine if any disturbed soil area exists at each location and check the appropriate box in Table C for each location. Enter the drainage area in acres for each location from SWPPP Attachment EE. During the pre-storm site monitoring inspection, for locations with disturbed soil area, determine the current disturbed soil area in acres and enter the information into Table C. Calculate and enter the percentage of drainage area that is disturbed soil area in Table C.

Determine the Number of Sampling Locations for Representative Sampling Based on Turbidity

Check the appropriate following box used to determine representative sampling locations.

- If fewer than five discharge locations have disturbed soil area, sample all discharge locations with disturbed soil area. Check the box in the "Storm Event Sample Location" column on Table C for all locations with have disturbed soil area.
- If the project has 25 or fewer stormwater discharge sampling locations and if more than five discharge locations have disturbed soil area, select the five locations with the highest percentage of disturbed soil area to determine the storm event sampling locations. Check the box in the "Rain Event Sampling Location" column in Table C for all five locations.
- If more than 25 stormwater discharge sampling locations exist, determine the number of locations that must be sampled based on 20 percent of the total stormwater discharge sampling locations.

\_\_\_\_\_ (stormwater discharge locations) x .20 = \_\_\_\_\_ (number of sampling locations)

To determine the storm event sampling locations, select the required number of sampling locations with the highest percentage of drainage area that is disturbed soil area. Check the box in the "Rain Event Sampling Location" column on Table C for each sampling location selected.

- If a previous storm event had a numeric effluent limitation exceedance, check the box in the "Storm Event Sampling Location" for all locations with disturbed soil area.

***Determining Sampling Locations Based on pH***

Project sites may have construction activities that may affect the pH of stormwater discharges.

To ensure that selection of discharge locations with construction activities that may affect pH are included in project site representative sampling, follow this selection process:

**Instruction** Based on pre-storm site visual monitoring inspection, determine if construction activity within each drainage area could affect the pH of stormwater discharges and check the appropriate box in the column of Table C for each discharge location. Check the box in table D column A if both questions in the previous two columns have been answered "yes."

Basis for the Number of Sampling Locations for Representative Sampling

Check the appropriate following box used to determine representative sampling location for pH.

- If fewer than five discharge locations have disturbed soil area and no additional discharge locations have construction activities that could affect pH, base storm event representative sampling on locations selected using turbidity. Check the box in "Storm Event Sample Location Column" in Table C for all locations with disturbed soil area.
- If fewer than five discharge locations have disturbed soil area and additional discharge locations do have construction activities that could affect pH, sample all discharge locations with disturbed soil area and select the two additional locations with the highest potential for pH discharges, based on current construction activities that may affect the pH of stormwater discharges. Check the "Location selected for sampling based on pH?" box for each selected location, based on the highest potential for pH discharges. For locations with the box checked in the "Location selected for sampling based on disturbed soil area?" column or locations with box checked in the "Location selected for sampling based on pH?" column, check the box in the "Storm Event Sample Location" column in Table C.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**QUALIFYING RAIN EVENT SAMPLING AND ANALYSIS PLAN**  
 CEM-2049 (NEW 10/2010)

PROJECT NAME	CONTRACT NUMBER/CO/RTE/PM
WATER POLLUTION CONTROL MANAGER NAME	PROJECT IDENTIFIER NUMBER
DATE	WDID NUMBER
<b>Qualifying Rain Event Sampling and Analysis Plan Worksheets, continued</b>	

Basis for Number of Sampling Locations for Representative Sampling (continued)

- If five or more discharge locations have disturbed soil area and at least two boxes in Column A are checked, base your storm event representative sampling on sampling locations you selected based on disturbed soil area. In Table , check the box in the "Storm Event Sample Location" column for sampling locations with the box checked in "Location selected for sampling based on disturbed soil area?" column.
- If five or more discharge locations have disturbed soil area and one or no box is checked in Column A, base additional sampling locations on pH. For discharge locations with no disturbed soil area but with construction activities that could affect pH, base all storm event sample locations on turbidity, and select two locations with the highest potential for pH discharges based on current construction activities. Check the box in Table C in the "Storm Event Sample Location" column for locations with the box checked in "Location selected for sampling based on disturbed soil area?" column or locations with the box checked in "Location selected for sampling based on pH?" column.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**QUALIFYING RAIN EVENT SAMPLING AND ANALYSIS PLAN**  
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PROJECT NAME		CONTRACT NUMBER/CO/RTE/PM		PROJECT IDENTIFIER NUMBER		WDID NUMBER				
<b>Qualifying Rain Event Sampling and Analysis Plan Worksheets, continued</b>										
<b>Table C Project Site Discharge Sampling Location Based on Disturbed Soil Area and pH</b>										
Location Number	Location	Any disturbed soil area?	Drainage area in acres	Current disturbed soil area in acres	Percentage of drainage area that is disturbed soil area	Location selected for sampling based on disturbed soil area?	Construction activities that may affect the pH of stormwater discharges?	Check the box if the answer is yes to both questions. (Column A)	Location selected for sampling based on pH?	Rain event sample location
		<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Enter locations from worksheet Table C with the box in the "Storm Event Sample Location" column checked into Table 2 on CEM-2049, "Qualifying Rain Event Sampling and Analysis Plan."

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PROJECT NAME	CONTRACT NUMBER/CO/RTE/PM
WATER POLLUTION CONTROL MANAGER NAME	PROJECT IDENTIFIER NUMBER
DATE	WDID NUMBER
<b>Rain Event Sampling and Analysis Plan Worksheets, continued</b>	
<b>Worksheet for determining additional storm event sampling locations based on previous storm event test results near numeric action levels</b>	

Has the daily average for any discharge location exceeded the NTU daily average of 200 NTU, or was pH daily average outside the 6.5 to 8.8 range for any storm event?

- Yes—Complete the worksheet.
- No—Stop. No additional sampling locations are necessary for this storm event.

Instructions If stormwater sample test results have exceeded limitations set for representative sampling, select additional sampling locations to sample and analyze 50 percent of the project site's stormwater discharge locations.

Determine the number of locations that must be sampled based on 50 percent of the total stormwater discharge sampling locations.

\_\_\_\_\_ (stormwater discharge locations) x .50 = \_\_\_\_\_ (number of sampling locations)

Check the appropriate box below used to determine representative sampling locations.

- If the number of sampling locations is five or fewer, no additional sampling locations need to be selected.
- If the number of sampling locations is determined to be more than five, complete Table D. Copy the information from Table C for the first six columns of Table D. Use the information in the last column of Table C, "Storm Event Sample Location," for column 7. If the NTU limit was exceeded, select additional sampling locations to meet the required number of representative sampling locations based on additional locations with the highest percentage of drainage area that is disturbed soil area. If pH range was exceeded, select additional sampling locations to meet the required number of representative sampling locations based on discharge locations with construction activities that could affect pH. Check the box in the "Additional Storm Event Sampling Location" column for each additional discharge location selected for sampling.

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PROJECT NAME		CONTRACT NUMBER/CO/RTE/PM		PROJECT IDENTIFIER NUMBER		WDID NUMBER			
<b>Qualifying Rain Event Sampling and Analysis Plan Worksheets, continued</b>									
<b>Table D Additional Storm Event Sampling Locations for Turbidity and pH based on exceedance of 200 NTU or pH outside the 6.5 to 8.5 range</b>									
Location Number	Location	Disturbed soil area?	Drainage area in acres	Current disturbed soil area in acres	Percentage of drainage area that is disturbed soil area	Storm event sample location?	Additional location selected for sampling based on disturbed soil area?	Current construction activities that may affect pH of stormwater discharges?	Additional location selected for sampling based on pH?
		<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>

Enter locations from worksheet Table D with the box checked in the "Additional location selected for sampling based on disturbed soil area?" column or the box checked in "Additional location selected for sampling based on pH?" column into Table 2 on CEM-2049, "Qualifying Rain Event Sampling and Analysis Plan."

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**QUALIFYING RAIN EVENT SAMPLING AND ANALYSIS PLAN**  
 CEM-2049 (NEW 10/2010)

PROJECT NAME	CONTRACT NUMBER/CO/RTE/PM
WATER POLLUTION CONTROL MANAGER NAME	PROJECT IDENTIFIER NUMBER
DATE	WDID NUMBER

**Qualifying Rain Event Sampling and Analysis Plan Worksheets, continued**

**Worksheet for Determining Rain Event Run-on Sampling Locations**

Instructions List in Table E discharge locations selected as storm event sample locations shown in Table C and additional storm water sample locations shown in Table D. Determine if stormwater run-on locations associated with the selected storm event sample locations exist. Table ??, "Project Site Run-on Locations," shows SWPPP Attachment EE Stormwater run-on locations.

Storm Event Run-on of Sampling is based on

Check the appropriate box below used to determine run-on sampling.

- No stormwater run-on locations exist for the selected discharge locations.
- If run-on locations exist, sample the run-on locations for the first three storm events that occur on a project to determine the run-on baseline.
- If the run-on baseline, determined from at least three storm events, is less than 50 NTU or inside the range of 7.0 to 8.0 for pH, run-on samples are not required for this storm event. Do not check the box without data for at least three storm events.
- Run-on sampling is required if a previous storm event at a discharge location exceeded a numeric action level or numeric effluent limitation.

<b>Table E Potential Rain Event Run-on Sampling Locations</b>						
Storm event sample location number	Location	Does project site run-on combine with discharges at this location?	If yes to run-on, what is its location number?	Is baseline for turbidity less than 50 NTU for run-on?	Is baseline for pH between 7.0 and 8.0 for run-on?	Storm event run-on sample location
		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>

Enter into Table 3 on CEM-2049, "Storm Event Sampling and Analysis Plan," locations from worksheet Table E that have the "Storm Event Run-on Sample Location" column box checked.

PROJECT NAME	CONTRACT NUMBER/CO/RTE/PM
WATER POLLUTION CONTROL MANAGER NAME	PROJECT IDENTIFIER NUMBER
DATE	WDID NUMBER

**Rain Event Sampling and Analysis Plan Worksheets, continued**

**Worksheet for Determining Storm Event Receiving Water Sampling Locations**

- Does the project site have any locations that discharge directly into a receiving water?
  - Yes—Complete worksheet F1.
  - No—Go to question 2.
- Has there been a Numeric Effluent Limitation (NEL) exceedance on this project?
  - Yes—Complete worksheet F2.
  - No—Stop, no receiving water sampling locations are necessary for this storm event.

**Worksheet F1 Determining Storm Event Receiving Water Sampling Locations**

**Instructions** List project stormwater discharge sampling locations shown in SWPPP Attachment EE Table, "Receiving Water Sampling Locations for Turbidity and pH When Project Site Discharges Directly to the Receiving Water." Based on pre-storm site visual monitoring inspection, determine if there is disturbed soil area at each location and check the appropriate box in Table F1 for each location. Based on pre-storm site visual monitoring inspection, determine if any current construction activity may affect the pH of stormwater discharge at each location and check the appropriate box in Table F1 for each location. For each location, if either disturbed soil area or current construction activity may affect the pH of stormwater discharge, check the box for storm event sample location.

**Table F1 Receiving Water Sampling Locations for Turbidity and pH When Project Site Discharges Directly To The Receiving Water**

Location Number	Location	Disturbed soil area?	Current construction activity that may affect pH of stormwater discharges?	Storm event sample location
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>

Enter locations from worksheet Table F1 with the box checked in the "Storm Event Sample Location" column into Table 4 on CEM-2049, "Storm Event Sampling and Analysis Plan." Duplicate entries are not required in Table 4 for the same receiving water location number and receiving water location based on different discharge locations.

PROJECT NAME	CONTRACT NUMBER/CO/RTE/PM
WATER POLLUTION CONTROL MANAGER NAME	PROJECT IDENTIFIER NUMBER
DATE	WDID NUMBER

**Qualifying Rain Event Sampling and Analysis Plan Worksheets, continued**

**Worksheet F2 Determining Storm Event Receiving Water Sampling Locations**

**Instructions** For receiving water discharge locations shown on Table C with the box checked in the "Storm Event Sample Location" column, enter the receiving water location number and location. Check the appropriate box for each discharge location if an NEL exceedance existed for a previous storm event. Check the appropriate box for each discharge location if discharges from the location can reach receiving water. If the answer to "Discharge from this project site discharge location reach receiving water?" is "yes," determine the receiving water sampling location number and receiving water location description. Refer to SWPPP Attachment EE for determining the receiving water sampling location associated with each discharge location number. If stormwater discharge from a discharge location cannot reach receiving water, leave the Receiving Water Location Number and Receiving Water Location blank.

Check the appropriate following box to indicate the basis used to determine receiving water sampling locations.

- No receiving water sampling locations for the discharge locations with previous NEL exceedance. Discharges from discharge locations do not reach receiving waters.
- Receiving water sampling locations are based on discharge locations where NEL was exceeded on previous storm events.

Discharge location number	NEL exceedance at discharge location	Discharge from this project site discharge location reach receiving water?	Receiving water location number	Receiving water location	Storm event sample location
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/>
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/>
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/>
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/>
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/>
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/>

Enter locations from worksheet Table F2 with the box checked in the "Storm Event Sample Location" column into Table 4 on CEM-2049, "Storm Event Sampling and Analysis Plan." Duplicate entries for receiving water sampling location are not required in Table 4 if the same receiving water sampling location is selected based on different discharge locations.

**GENERAL INFORMATION**

**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 a project identifier number, write "N/A" in the field.
- **WDID Number**  
For projects with Water Pollution Control Program enter "WPCP" in this field.



Appendix P  
CEM-2055  
Stormwater Equipment Maintenance Log Form





**Instructions**

**GENERAL INFORMATION**

- The information shown on this form is required to document maintenance on stormwater field analyses equipment, such as turbidity meters and pH meters.
- Completed forms must be filed in project file category 20.55, Field Testing Equipment Maintenance and Calibration Records.

**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 a project identifier number write "N/A" in the field.
- **WDID Number**  
For projects with Water Pollution Control Program enter "WPCP" in this field.
- **Project Site Risk Level**  
Check the box for the appropriate SWPPP risk level.
- **Meter**  
Enter the meter manufacturer, model number, and serial number. Use a separate form for each field meter used on a project site.

Appendix Q  
CEM-2056

Stormwater Turbidity Meter Calibration Record Form



# STORMWATER TURBIDITY METER CALIBRATION RECORD

CEM-2056 (NEW 4/2011)

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER
	WDID NUMBER
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL <input type="checkbox"/> Risk Level 1 <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> Risk Level 3
SUBMITTED BY CONTRACTOR (PRINT AND SIGN NAME)	
	DATE

### Turbidity Meter

Meter manufacturer	Meter model number	Meter serial number
<b>Standard Solution (NTU) (Nephelometric Turbidity Unit)</b>	<b>Control Number</b>	<b>Date</b>
0.02		
10.0		
1000		

### Turbidity Calibration Date \_\_\_\_\_

Standard Solution (NTU)	Cal Standard Solution Expiration Date	Initial Calibration		Re-Calibration		Drift Check		Notes	Initials
		Time:		Time:		Time:			
		Cal	Read	Cal	Read	Read	Acceptable performance		
0.02									
10.0									
1,000									

### Turbidity Calibration Date \_\_\_\_\_

Standard Solution (NTU)	Cal Standard Solution Expiration Date	Initial Calibration		Re-Calibration		Drift Check		Notes	Initials
		Time:		Time:		Time:			
		Cal	Read	Cal	Read	Read	Acceptable performance		
0.02									
10.0									
1,000									



# STORMWATER TURBIDITY METER CALIBRATION RECORD

CEM-2056 (NEW 4/2011)

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

**Turbidity Calibration Date** \_\_\_\_\_

Standard Solution (NTU)	Cal Standard Solution Expiration Date	Initial Calibration		Re-Calibration		Drift Check		Notes	Initials
		Time:		Time:		Time:			
		Cal	Read	Cal	Read	Read	Acceptable performance		
0.02									
10.0									
1,000									

Date	Notes

**Review**

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



Appendix R  
CEM-2057  
Stormwater pH Meter Calibration Record Form



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**STORMWATER pH METER CALIBRATION RECORD**  
 CEM-2057 (NEW 12/2010)

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER
	WDID NUMBER
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL <input type="checkbox"/> Risk Level 1 <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> Risk Level 3
SUBMITTED BY CONTRACTOR (PRINT AND SIGN NAME)	
DATE	

pH Meter			
Meter manufacturer	Meter model number	Meter serial number	
Standard Buffer	Control Number	Expiration Date	Date Opened
pH Buffer 4.0			
pH Buffer 7.0			
ph Buffer 10.0			

pH Meter Calibration Record									
Date	Electrode Number	Temperature at Calibration	Slope (%)	Buffers Used for Calibration			Re-check pH 7.0	Notes	Initials
				pH 4.0	pH 7.0	pH 10.0			
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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

**pH Meter Calibration Record Continued**

Date	Electrode Number	Temperature at Calibration	Slope (%)	Buffers Used for Calibration			Re-check pH 7.0	Notes	Initials
				pH 4.0	pH 7.0	pH 10.0			
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Date	Calibration Notes

**Review**

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	Date
---------------------------------	------

Water pollution control manager signature

## Instructions

### GENERAL INFORMATION

- Projects with Construction Site Monitoring Program require the information on this form as part of the Stormwater Pollution Prevention Plan for stormwater analysis meter calibration.
- Completed forms must be filed in project file category 20.55, Field Testing Equipment Maintenance and Calibration Records

### 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 a PID, write "N/A" in the field.

### ELECTRODE MAINTENANCE

- To pass calibration, the pH meter must display a slope between 95 percent and 105 percent. If the pH meter does not display such a slope, take the following corrective action:
  1. Change the standard pH and buffers and recalibrate.
  2. Change the 3M KCl fill in the electrode, or bring up the volume and recalibrate.
  3. Clean the electrode with the pH Electrode Cleaning Solution (follow manufacturer's instructions), and recalibrate.
  4. If the meter does not recalibrate using the three steps above, consult the manufacturer's technical manual, and discontinue use of the meter until it functions properly.
- Corrective actions to calibrate the pH meter must be recorded in the calibration notes section on form CEM-2056, "Stormwater pH Meter Calibration Record."
- Any pH meter maintenance activities must be recorded under the calibration notes section on form CEM-2056, "Stormwater pH Meter Calibration Record."



Appendix S  
CEM-2058  
Stormwater Meter Calibration Record Form



PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM	
	PROJECT IDENTIFIER NUMBER	
	WDID NUMBER	
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL <input type="checkbox"/> Risk Level 1 <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> Risk Level 3	
SUBMITTED BY CONTRACTOR (PRINT AND SIGN NAME)		DATE

Meter		
Meter manufacturer	Meter model number	Meter serial number

Conductivity Meter Calibration Date _____									
Standard Solution (uS/cm)	Cal Standard Solution Expiration Date	Initial Calibration		Re-Calibration		Drift Check		Notes	Initials
		Time		Time		Time			
		Cal	Read	Cal	Read	Read	Acceptable Performance		
447								<input type="checkbox"/>	
1413								<input type="checkbox"/>	
8974								<input type="checkbox"/>	
15,000								<input type="checkbox"/>	

Dissolved Oxygen Meter Calibration Date _____									
Standard	Cal Standard Solution Expiration Date	Initial Calibration		Re-Calibration		Drift Check		Notes	Initials
		Time		Time		Time			
		Cal	Read	Cal	Read	Read	Acceptable Performance		
Open Air (mg/L)								<input type="checkbox"/>	
Zero Oxygen Standard (MG/L)								<input type="checkbox"/>	
Barometer (mm Hg)								<input type="checkbox"/>	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**STORMWATER METER CALIBRATION RECORD**  
 CEM-2058 (NEW 12/2010)

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

\_\_\_\_\_ Meter Calibration Date \_\_\_\_\_

Standard	Cal Standard Solution Expiration Date	Initial Calibration		Re-Calibration		Drift Check		Notes	Initials
		Time		Time		Time			
		Cal	Read	Cal	Read	Read	Acceptable Performance		
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	

\_\_\_\_\_ Meter Calibration Date \_\_\_\_\_

Standard	Cal Standard Solution Expiration Date	Initial Calibration		Re-Calibration		Drift Check		Notes	Initials
		Time		Time		Time			
		Cal	Read	Cal	Read	Read	Acceptable Performance		
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	

Date	Notes

**Review**

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	Water pollution control manager
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Water pollution control manager signature

### Instructions

#### GENERAL INFORMATION

- Projects with Construction Site Monitoring Program require the information on this form as part of the Stormwater Pollution Prevention Plan for stormwater analysis meter calibration.
- Completed forms shall be filed in project file category 20.55, Field Testing Equipment Maintenance and Calibration Records.

#### 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 a PID, write "N/A" in the field.

Acceptable performance for conductivity drift is  $\pm 10$  percent, and acceptable performance for dissolved oxygen is  $\pm 10$  percent.

### Instructions

**GENERAL INFORMATION**

- Projects with Construction Site Monitoring Program require the information on this form as part of the Stormwater Pollution Prevention Plan for stormwater analysis meter calibration.
- Completed forms shall be filed in project file category 20.55, Field Testing Equipment Maintenance and Calibration Records.

**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 a PID, write "N/A" in the field.

Acceptable performance for conductivity drift is  $\pm 10$  percent, and acceptable performance for dissolved oxygen is  $\pm 10$  percent.

Appendix T  
CEM-2050  
Sample Information, Identification, and Chain of Custody  
Record Form



**SAMPLE INFORMATION, IDENTIFICATION,  
AND CHAIN-OF-CUSTODY RECORD**

CEM-2050 (NEW 10/2010)

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER
	WDID NUMBER
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL <input type="checkbox"/> Risk Level 1 <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> Risk Level 3
Submitted by contractor (print and sign name)	Date

**Daily Sample Record**

Location	Date of sampling
Sample location identification number	Sampled collected for <input type="checkbox"/> Storm event <input type="checkbox"/> Discharge of stored stormwater <input type="checkbox"/> Dewatering discharge <input type="checkbox"/> Other _____
Sampled by (signature)	
Sampled by (print name)	Samples to be analyzed for parameters <input type="checkbox"/> Turbidity <input type="checkbox"/> pH <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____
Company	

**Sample Information**

Sample Identification	Sample Collection Time	Storm Event Precipitation Amount at Sample Time	Sample Preservative	Comments	Photos

Preservative Key  
 0 - None  
 1 - Stored at 4 Celsius  
 2 - Other \_\_\_\_\_

**SAMPLE INFORMATION, IDENTIFICATION,  
AND CHAIN-OF-CUSTODY RECORD**

CEM-2050 (NEW 10/2010)

Page 2 of 3

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

**Sampling Exception**

Sampling exception? <input type="checkbox"/> Yes <input type="checkbox"/> No	Sampling was not conducted because of the following conditions:
--	---

**Chain of Custody**

Relinquished by	Received by	Relinquished by	Received by
Signature	Signature	Signature	Signature
Print name	Print name	Print name	Print name
Company	Company	Company	Company
Date and time	Date and time	Date and time	Date and time

**Review and Record Keeping**

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.

Has sampling information been entered into CEM-2051, "Stormwater Sampling and Testing Log"?

- Yes  
 No

Water pollution control manager (name)	Date
Water pollution control manager (signature)	
Accepted by resident engineer (name)	Date
Resident engineer's (signature)	

**SAMPLE INFORMATION, IDENTIFICATION,  
AND CHAIN-OF-CUSTODY RECORD**

CEM-2050 (NEW 10/2010)

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## Instructions

### General Information

- This form is required for compliance with provisions in Section I of Attachments C, D, and E of the National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated With Construction and Land Disturbance Activities, Order No. 2009-0009-DWQ, NPDES No. CAS000002.
- Sampling guidance is in the current edition of the *Construction Site Monitoring Program Guidance Manual*.
- Conduct sampling and sample preservation according to 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 Surface Ambient Monitoring Program's 2008 Quality Assurance Program Plan.
- Complete a separate Sample Information, Identification, and Chain-of-Custody Record for each sampling location daily.
- Include a copy of the completed form in the project Storm Water Pollution Prevention Plan files.

### Form

**• 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.

**• Contract Number/Co/Rte/PM**

For local agency encroachment permit projects, write the encroachment permit number in the contract number field.

**• Sample Identification**

Establish sample identification code as shown below.

SSSSYYMMDDHHmmTT

Where

SSSSS = sampling point number (for example, CCUP1, CCDN2)  
 YY = last two digits of the year (for example, 09)  
 MM = month (01-12)  
 DD = day (01-31)  
 HH = hour sample collected (00-23)  
 mm = minute sample collected (00-59)  
 TT = type or QAQC Identifier, if applicable  
 G = grab  
 FS = field duplicate

For example, the sample number for a grab sample collected at Station CCUP1 collected at 4:15 p.m. on December 8, 2009, would be **CCUP10912081615G**



Appendix U  
CEM-2051  
Stormwater Sampling and Testing Activity Log



**ADA  
 Notice**

For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM	
	PROJECT IDENTIFIER NUMBER	
	WDID NUMBER	
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL <input type="checkbox"/> Risk Level 1 <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> Risk Level 3	
SUBMITTED BY CONTRACTOR (PRINT AND SIGN NAME)		DATE

**STORMWATER SAMPLING AND ANALYSIS LOG REVIEW**

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.

Are laboratory test results attached to this stormwater sampling and analysis log submittal?

Yes       No

Water pollution control manager signature	Date
---	------

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**STORMWATER SAMPLING AND ANALYSIS LOG**  
 CEM-2051 (NEW 12/2010)

CONTRACT NUMBER/CO/RTE/PM		PROJECT IDENTIFIER NUMBER		WDID NUMBER		DATE		
STORMWATER SAMPLING AND ANALYSIS LOG								
Log Number	Date of Sampling	Sampling Location	Time Sample Taken	Amount of Precipitation	Sample Identification	Analysis	Analysis Result	
						Turbidity <input type="checkbox"/> _____ pH <input type="checkbox"/> _____ <input type="checkbox"/> _____		Daily Average Analysis Result  Lab Report Attached <input type="checkbox"/> Yes <input type="checkbox"/> No
						Turbidity <input type="checkbox"/> _____ pH <input type="checkbox"/> _____ <input type="checkbox"/> _____		Daily Average Analysis Result  Lab Report Attached <input type="checkbox"/> Yes <input type="checkbox"/> No
						Turbidity <input type="checkbox"/> _____ pH <input type="checkbox"/> _____ <input type="checkbox"/> _____		Daily Average Analysis Result  Lab Report Attached <input type="checkbox"/> Yes <input type="checkbox"/> No
						Turbidity <input type="checkbox"/> _____ pH <input type="checkbox"/> _____ <input type="checkbox"/> _____		Daily Average Analysis Result  Lab Report Attached <input type="checkbox"/> Yes <input type="checkbox"/> No
						Turbidity <input type="checkbox"/> _____ pH <input type="checkbox"/> _____ <input type="checkbox"/> _____		Daily Average Analysis Result  Lab Report Attached <input type="checkbox"/> Yes <input type="checkbox"/> No
						Turbidity <input type="checkbox"/> _____ pH <input type="checkbox"/> _____ <input type="checkbox"/> _____		Daily Average Analysis Result  Lab Report Attached <input type="checkbox"/> Yes <input type="checkbox"/> No
						Turbidity <input type="checkbox"/> _____ pH <input type="checkbox"/> _____ <input type="checkbox"/> _____		Daily Average Analysis Result  Lab Report Attached <input type="checkbox"/> Yes <input type="checkbox"/> No
						Turbidity <input type="checkbox"/> _____ pH <input type="checkbox"/> _____ <input type="checkbox"/> _____		Daily Average Analysis Result  Lab Report Attached <input type="checkbox"/> Yes <input type="checkbox"/> No

### Instructions

#### GENERAL INFORMATION

- Projects with Construction Site Monitoring Program require the information on this form as part of the Stormwater Pollution Prevention Plan to document stormwater analysis meter calibration. The stormwater annual report for SWPPP projects requires this information.
- Complete this form after every storm event that requires sampling and analysis.
- Complete this form weekly for logging non-stormwater sampling and analysis, and indicate in the sampling location column the reason for non-stormwater samples, such as sample from dewatering operation.

#### 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 a PID, write "N/A" in the field.

##### **Log Number**

Log numbering should be consecutive starting from the first storm event to the last storm event for a project

##### **Amount of Precipitation**

Enter the cumulative amount of precipitation from the storm event at the time each sample is taken.

##### **Analysis Result**

For turbidity and pH, a minimum of three samples is required to determine the daily average. If more than three daily samples are taken, use two rows to report all samples, and report the daily average in second row.



Appendix V  
CEM-2052  
Stormwater Sample Field Test Report Form



PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM	
	PROJECT IDENTIFIER NUMBER	
	WDID NUMBER	
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL <input type="checkbox"/> Risk Level 1 <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> Risk Level 3	
Submitted by contractor (print name and sign)		Date

**Stormwater Samples Field Analysis**

Location	Date of Sampling
Sample Location Identification Number	Date of Analysis
Sample Analyzed By Signature	
Sample Analyzed By Print Name	
Analyzer Phone Number	Samples Analyzed For Parameter(s) <input type="checkbox"/> Turbidity <input type="checkbox"/> pH <input type="checkbox"/> Other _____ <input type="checkbox"/> Other _____
Company	

Sample Identification	Turbidity Analysis (NTU)	pH Analysis (pH)	Analysis (____)	Analysis (____)	Comments
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
Qualifying Rain Event Daily Average Analysis Result					<input type="checkbox"/>

PROJECT INFORMATION NAME AND SITE ADDRESS		CONTRACT NUMBER/CO/RTE/PM	
		PROJECT IDENTIFIER NUMBER	
		WDID Number	
<b>Turbidity Analysis Information</b>			
Turbidity Meter Manufacturer	Model Number	Serial Number	Calibration Date
Analytical Method	Method Reporting Unit	Method Detection Limit	
<b>pH Analysis Information</b>			
Turbidity Meter Manufacturer	Model Number	Serial Number	Calibration Date
Analytical Method	Method Reporting Unit	Method Detection Limit	
<b>Analysis Information</b>			
Meter Manufacturer	Model Number	Serial Number	Calibration Date
Analytical Method	Method Reporting Unit	Method Detection Limit	
Note: Meter calibration information available in the Storm Water Pollution Prevention Plan (SWPPP) files. Comments			
<b>Review and Record Keeping</b>			
Test results entered into sampling and testing activity log?  <input type="checkbox"/> Yes <input type="checkbox"/> No	Numeric action level exceedance?  <input type="checkbox"/> Yes <input type="checkbox"/> No	Numeric effluent limitation violation?  <input type="checkbox"/> Yes <input type="checkbox"/> 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			
Accepted by resident engineer (name)		Date	
Resident engineer signature			

## Instructions

### GENERAL INFORMATION

- This form is required for compliance with provisions in Section I of Attachments C, D, and E of the National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated With Construction and Land Disturbance Activities, Order No. 2009-0009-DWQ, NPDES No. CAS000002.
- The *Construction Site Monitoring Program Guidance Manual*, dated July 2010, contains sampling guidance.
- 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 Surface Ambient Monitoring Program's (SWAMP) 2008 Quality Assurance Program Plan (QAPrP).
- Complete a separate stormwater sample field analysis report daily for each sampling location.
- Include a copy of the completed form in the project SWPPP files.

### FORM

#### Project Identifier Number

Starting July 1, 2010, Caltrans projects will have a project identifier number. For projects without a PID, write N/A in the field.

#### Contract Number/Co/Rte/PM

For local agency encroachment permit projects, write the encroachment permit number in the contract number field.

Analysis Result Analytical results less than the method detection limit must be reported as "less than the method detection limit."

#### 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.

#### Numeric Action Level Exceedance

In the event that any daily average effluent samples analysis results exceeds an applicable Numeric Action Level (NAL), complete form CEM-XXXX "Numeric Action Level Exceedance Report," and submit all storm event sampling results to the State Water Board no later than ten days after the conclusion of the storm event.

#### Numeric Effluent Limitation Violation

In the event that any daily average effluent samples analysis results exceeds an applicable Numeric Effluent Limitation, complete form CEM-6062, "Numeric Effluent Limitation Violation Report," and submit CEM-2063, "Numeric Effluent Limitation Violation Report," to the State Water Board within 24 hours after the numeric effluent limitation violation was identified. Submit all storm event sampling results to the State Water Board no later than five days after the conclusion of the storm event.



Appendix W  
CEM-2054  
Stormwater Sample Laboratory Test Report Form



# STORMWATER SAMPLE LABORATORY TEST REPORT

CEM-2054 (NEW 12/2010)

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM
	PROJECT IDENTIFIER NUMBER
	WDID NUMBER
CONTRACTOR NAME AND ADDRESS	PROJECT SITE RISK LEVEL <input type="checkbox"/> Risk Level 1 <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> Risk Level 3
SUBMITTED BY CONTRACTOR (PRINT AND SIGN NAME)	
	DATE

**Stormwater Samples Laboratory Analysis**

*If this form is completed by water pollution control manager attach laboratory report.*

Location	Date of sampling
	Date sample received by laboratory
Sample location identification number	Date of sample analysis
Sample chain of custody?  <input type="checkbox"/> Yes <input type="checkbox"/> No	Adequate sample preservation?  <input type="checkbox"/> Yes <input type="checkbox"/> No
Sample analyzed by (signature)	Sampled collected for <input type="checkbox"/> Storm event <input type="checkbox"/> Discharge of stored stormwater <input type="checkbox"/> Dewatering discharge <input type="checkbox"/> Other _____
Sample analyzed by (print name)	Samples analyzed for parameters <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____
Location	

Sample Identification	_____	_____	_____	_____
	Analysis ( _____ )			

**STORMWATER SAMPLE LABORATORY TEST REPORT**

CEM-2054 (NEW 12/2010)

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

**Analysis Information**

Equipment manufacturer	Model number	Serial number	Calibration date
Analytical method	Method reporting unit	Method detection limit	

**Analysis Information**

Equipment manufacturer	Model number	Serial number	Calibration date
Analytical method	Method reporting unit	Method detection limit	

**Analysis Information**

Equipment manufacturer	Model number	Serial number	Calibration date
Analytical method	Method reporting unit	Method detection limit	

Comments

**Review and Record Keeping**

Test results entered into the Sampling and Testing Activity Log?

 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

Accepted by resident engineer name	Date
------------------------------------	------

Resident engineer signature

**STORMWATER SAMPLE LABORATORY TEST REPORT**

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## Instructions

**General Information**

- This form is required for compliance with provisions in Section I of Attachments C, D, and E of the National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated With Construction and Land Disturbance Activities, Order No. 2009-0009-DWQ, NPDES No. CAS000002.
- The *Construction Site Monitoring Program Guidance Manual* dated July 2010 contains sampling guidance.
- All sampling and sample preservation must be in accordance with the current American Public Health Association edition of "Standard Methods for the Examination of Water and Wastewater."
- Collect, maintain, and ship samples in accordance with the Surface Ambient Monitoring Program's 2008 Quality Assurance Program Plan.
- Complete a separate Stormwater Sample Laboratory Analysis Report for each sampling location daily.
- Include a copy of the completed form in the project Storm Water Pollution Prevention Plan files.

**Form Instructions****Project Identifier Number**

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

**Contract Number/Co/Rte/PM**

For local agency encroachment permit projects, write the encroachment permit number in the Contract Number field.

**Sample Analyzed By Signature**

If form is completed by the WPCM, write "See attached laboratory report" in the field "sample analyzed by (signature)" and attach laboratory report.

**Analysis Results**

Report analytical results less than the method detection limit as "less than the method detection limit."



Appendix X  
CEM-2062  
NAL Exceedance Report Form



PROJECT INFORMATION NAME AND SITE ADDRESS		CONTRACT NUMBER/CO/RTE/PM	
		PROJECT IDENTIFIER NUMBER	
		WDID NUMBER	
CONTRACTOR NAME AND ADDRESS		PROJECT SITE RISK LEVEL <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> Risk Level 3	
Submitted by contractor (print and sign name)			Date
<b>Numeric Action Level Exceedance Information</b>			
Location		Parameter Violation <input type="checkbox"/> Turbidity <input type="checkbox"/> pH	Parameter Daily Average
Sample location identification number		Date of sampling	
Samples collected by		Date of analysis	
Samples analysis by		Date and time water pollution control manager notified	
Analyzer phone number		Date and time resident engineer notified	
Sample Identification	Sample Collection Time	Storm Event Precipitation Amount at Sample Time	_____ Analysis (____)
<b>Qualifying Rain Event Daily Average Analysis Result</b>			

PROJECT INFORMATION NAME AND SITE ADDRESS		CONTRACT NUMBER/CO/RTE/PM		
		PROJECT IDENTIFIER NUMBER		
		WDID NUMBER		
<b>Analysis Information</b>				
Model Number	Model Number	Model Number	Calibration Date	
Analytical Method		Analytical Method	Analytical Method	
<i>Note: Meter calibration information available in the SWPPP files.</i>				
<b>Storm Event Information</b>				
Start of storm event _____ <i>Date</i> _____ <i>Time</i>	End of storm event _____ <i>Date</i> _____ <i>Time</i>	Duration of storm event _____ <i>Hours : Minutes.</i>	Storm event precipitation amount recorded from onsite rain gauge _____ <i>inches</i>	Storm event precipitation amount from governmental rain gauge _____ <i>inches</i>
<b>Exceedance Location Information</b>				
Visual observation of location			Photographs? <input type="checkbox"/> Yes <input type="checkbox"/> No	
BMPs installed at location			Photographs? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Corrective actions taken			Photographs? <input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Additional Information</b>				
Run-on samples taken? <input type="checkbox"/> Yes <input type="checkbox"/> No		Run-on samples identification		

PROJECT INFORMATION NAME AND SITE ADDRESS	CONTRACT NUMBER/CO/RTE/PM	
	PROJECT IDENTIFIER NUMBER	
	WDID NUMBER	
<b>Numeric Action Level Exceedance Report Certification</b>		
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 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		
Resident engineer name	Date	
Resident engineer signature		
Numeric effluent limitation Violation Report submitted to State Water Board SMARTS database within 24 hours after NEL exceedance was identified? <input type="checkbox"/> Yes <input type="checkbox"/> No	Date input	Resident engineer initials

### Instructions

<p><b>General Information</b></p> <ul style="list-style-type: none"> <li>This form is required for compliance with provisions for Numeric Effluent Limitation (NEL) Level Violation Report in Section I of Attachment E of the National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated With Construction and Land Disturbance Activities, Order No. 2009-0009-DWQ, NPDES No. CAS000002.</li> <li>Sampling guidance is found in Construction Site Monitoring Program Guidance Manual, dated July 2010.</li> <li>In the event that any daily average effluent samples analysis result exceeds an applicable NAL, submit all storm event sampling results to the State Water Board no later than 10 days after the conclusion of the storm event.</li> <li>Regional Boards have the authority to require the submittal of an NAL Exceedance Report.</li> <li>Included a copy of the completed form in the project Storm Water Pollution Prevention Plan (SWPPP) files.</li> </ul>
<p><b>Form</b></p> <ul style="list-style-type: none"> <li><b>Project Identifier Number</b> Caltrans projects starting July 1, 2010, will have a project identifier number. For projects without a number, write N/A in the field.</li> <li><b>Contract Number/Co/Rte/PM</b> For local agency encroachment permit projects write the encroachment permit number in the contract number field.</li> <li><b>Analysis Results</b> Analytical results that are less than the method detection limit shall be reported as "Less than the method detection limit."</li> <li><b>Storm Event Precipitation Amount at Sample Time</b> At time of sample collection record amount of precipitation from onsite rain gauge.</li> <li><b>Qualifying Rain Event Daily Average Analysis Result</b> A minimum of three daily samples is required to calculate the daily average for a qualifying rain event.</li> </ul>



Appendix Y  
CEM-2063  
NEL Violation Report Form



**NUMERIC EFFLUENT LIMITATION VIOLATION REPORT**

CEM-2063 (NEW 1/2011)

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 <input type="checkbox"/> Risk Level 2 <input type="checkbox"/> Risk Level 3
SUBMITTED BY CONTRACTOR (PRINT AND SIGN NAME)	DATE

**Numeric Effluent Limitation Violation Information**

Location	Parameter Violation <input type="checkbox"/> Turbidity <input type="checkbox"/> pH	Discharge Location Parameter Daily Average	Project Site Parameter Daily Average
Sample location Identification number	Date of sampling		
Samples collected by	Date of analysis		
Samples analysis by	Date and time water pollution control manager notified of results		
Analyzer phone number	Date and time resident engineer notified of results		
Sample Identification	Sample Collection Time	Storm Event Precipitation Amount at Sample Time	Analysis (_____)
Qualifying rain event daily average _____			

**Analysis Information**

Meter manufacturer	Model number	Serial number	Calibration date
Analytical method	Method reporting unit	Method detection limit	

**Storm Event Information***Attach a copy of governmental rain gauge information.*

Start of storm event _____ <i>Date</i> _____ <i>Time</i>	End of storm event _____ <i>Date</i> _____ <i>Time</i>	Duration of storm event _____ <i>Hours : Minutes.</i>	Storm event precipitation amount recorded from site rain gauge _____ <i>inches</i>	Storm event precipitation amount recorded from governmental rain gauge _____ <i>inches</i>
Storm event 24-hour maximum precipitation amount recorded from onsite rain gauge _____ <i>inches</i>	Storm event 24-hour maximum precipitation amount from governmental rain gauge _____ <i>inches</i>	Compliance storm 5-year, 24-hour storm? _____ <i>inches</i>	Compliance storm exception (5-year, 24-hour storm?) <input type="checkbox"/> Yes <input type="checkbox"/> No	

**NUMERIC EFFLUENT LIMITATION VIOLATION REPORT**

CEM-2063 (NEW 1/2011)

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

**Violation Location Information**

	Photographs
Visual observation of location	<input type="checkbox"/> YES <input type="checkbox"/> NO
The nature and cause of the water quality standard exceedance, base on a visual observation of the discharge location	<input type="checkbox"/> YES <input type="checkbox"/> NO
BMPs currently installed at the location of the discharge	<input type="checkbox"/> YES <input type="checkbox"/> NO
Additional BMPs that will be implemented to prevent or reduce pollutants causing or contributing to exceedance of a water quality standard	<input type="checkbox"/> YES <input type="checkbox"/> NO
Implementation schedule for additional BMPs	<input type="checkbox"/> YES <input type="checkbox"/> NO
Maintenance or repair of BMPs	<input type="checkbox"/> YES <input type="checkbox"/> NO
Implementation schedule for BMPs maintenance or repair	<input type="checkbox"/> YES <input type="checkbox"/> NO
Other required corrective actions	<input type="checkbox"/> YES <input type="checkbox"/> NO
Implementation schedule for corrective actions	<input type="checkbox"/> YES <input type="checkbox"/> NO
Summary of actions taken to reduce the pollutants causing or contributing to the water quality standard exceedance	

**NUMERIC EFFLUENT LIMITATION VIOLATION REPORT**

CEM-2063 (NEW 1/2011)

Page 3 of 4

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

**Additional Information**

Run-on samples taken? <input type="checkbox"/> Yes <input type="checkbox"/> No	Receiving water samples taken? <input type="checkbox"/> Yes <input type="checkbox"/> No	For turbidity NEL violation Samples taken for suspended sediment concentration (SSC)? <input type="checkbox"/> Yes <input type="checkbox"/> No
Run-on sample identification	Receiving water sample identification	SSC sample identification

**Numeric Effluent Limitation Violation 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 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 person 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
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Water pollution control manager signature
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Resident engineer name	Date
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Resident engineer signature
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Numeric effluent limitation Violation Report submitted to State Board SMARTS database within 24 hours after NEL exceedance was identified? <input type="checkbox"/> Yes <input type="checkbox"/> No	Date input	Resident engineer initials
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All storm event sampling results submitted to State Water Board SMARTS database within 5 days after the conclusion of the storm event? <input type="checkbox"/> Yes <input type="checkbox"/> No	Date input	Resident engineer initials
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**Notice of Discharge Reporting**

Discharge reported by telephone or email to the Regional Water Quality Control Board (RWQCB) within 48 hours of discovery? <input type="checkbox"/> YES <input type="checkbox"/> NO	Date discharge reported to RWQCB	Resident engineer initials
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Notice of Discharge Report submitted to RWQCB within 14 days (3 days for District 7 and District 11)? <input type="checkbox"/> YES <input type="checkbox"/> NO	Date report submitted to RWQCB	Resident engineer initials
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**ADA Notice**

For individuals with sensory disabilities, this document is available in alternate formats. For information call (916) 654-6410 or TDD (916) 654-3880 or write Records and Forms Management, 1120 N Street, MS-89, Sacramento, CA 95814.

**NUMERIC EFFLUENT LIMITATION VIOLATION REPORT**

CEM-2063 (NEW 1/2011)

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## Instructions

**GENERAL INFORMATION**

- This form is required for compliance with provisions for Numeric Effluent Limitation (NEL) Level Violation Report in Section I of Attachment E of the National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated With Construction and Land Disturbance Activities, Order No. 2009-0009-DWQ, NPDES No. CAS000002.
- Sampling guidance is found in *Construction Site Monitoring Program Guidance Manual*, dated July 2010.
- When the daily average of effluent samples analysis results exceeds an applicable NEL, submit the Numeric Effluent Limitation Level Violation Report to the State Water Board within 24 hours after an NEL Exceedance has been identified.
- When the daily average of effluent samples analysis results exceeds an applicable NEL, submit all storm event sampling results to the State Water Board within 5 days after the conclusion of the storm event.
- Regional boards have the authority to require the submittal of an NEL Violation Report.
- You may submit an NEL Violation Report to RWQCB instead of a Notice of Discharge Report.
- Include a copy of the completed form in the project Storm Water Pollution Prevention Plan (SWPPP) files.

**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 a PID, write N/A in the field.

**Storm Event Precipitation Amount at Sample Time**

At time of sample collection record amount of precipitation from onsite rain gauge.

**Analysis Results**

Analytical results that are less than the method detection limit shall be reported as "Less than the method detection limit."

**Qualifying Rain Event Daily Average Analysis Result**

A minimum of three daily samples is required to calculate the daily average for a qualifying rain event.

**Compliance Storm Event**

The 5-year, 24-hour storm (expressed in tenths of an inch of rainfall), as determined by using the maps.

<http://www.wrcc.dri.edu/pcpnfreq/nca5y24.gif>

<http://www.wrcc.dri.edu/pcpnfreq/sca5y24.gif>

Compliance storm verification must be done by reporting the onsite rain gauge readings as well as nearby governmental rain gauge readings. Attach a copy of the governmental rain gauge readings to this report.

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Appendix Z  
CEM-2065  
Notice of Discharge Log Form





## Instructions

### GENERAL INFORMATION

- The information shown on this form is required for projects with either a Stormwater Pollution Prevention Plan (SWPPP) or Water Pollution Control Program (WPCP) to document discharges.
- Use this CEM-2065 to log discharges including stormwater, authorized non-stormwater, and non-authorized non-stormwater discharges with an exceedance of an Applicable Water Quality Standard.
- Log all discharge incidents reported on forms:
  - CEM-2061, Notice of Discharge Report
  - CEM-2062, Numeric Action Level Exceedance Report
  - CEM-2063, Numeric Effluent Limitation Violation Report
- Submit an updated Notice of Discharge Log to the resident engineer with each of the above forms.

### 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 a project identifier number write N/A in the field.
- **WDID Number**  
For projects with Water Pollution Control Program enter "WPCP" in this field.
- Enter information about discharge incidents from forms:
  - CEM-2061, Notice of Discharge Report
  - CEM-2062, Numeric Action Level Exceedance Report
  - CEM-2063, Numeric Effluent Limitation Violation Report
- The resident engineer will notify the Regional Water Quality Control Board and record the date notified.