

Standard Specification **VERSION A: FOR GROUND DISTURBING ACTIVITIES GREATER THAN OR EQUAL TO ONE ACRE**

This section is required for any project that has exterior work that would disturb soil, i.e., grading, excavation, trenching, etc.

SECTION 01 57 23 STORM WATER POLLUTION PREVENTION

PART 1 - GENERAL

1.1 APPLICABILITY

- A. Construction projects resulting in land disturbance of one acre or more: Contractor shall apply for coverage under the Construction General Permit, Waste Discharge Requirements Order No. 2009-0009 DWQ (National Pollutant Discharge Elimination System (NPDES) Permit No. CAS000002 prior to commencement of construction activities. The document is available from the State Water Resources Control Board website at http://www.swrcb.ca.gov/water_issues/programs/stormwater/constpermits.shtml

1.2 SCOPE

- A. Discharge of pollutants (any substance, material, or waste other than clear, uncontaminated storm water) from the project into the storm drain system is strictly prohibited by the Central Valley Regional Water Quality Control Board's (RWQCB) Water Quality Control Plan (Basin Plan).
- B. Provide all material, labor, equipment for installation, implementation, and maintenance of all surface-water pollution prevention measures. This work includes the following:
1. Provide, place, and install effective measures for preventing runoff of soil, silts, gravel, hazardous chemicals or other materials prohibited by the Central Valley RWQCB from entering the storm water drainage system.
 2. Management of on-site construction materials in such a manner as to prevent said materials from contacting storm water or wash water and running off into the storm drain system.
 3. Complying with applicable standards and regulations specified herein.
 4. Maintain the most current revised Storm Water Pollution Prevention Plan (SWPPP) at the Contractor's work site in hard copy. An electronic copy of the original and each revision shall be forwarded to the University's Representative.
 5. Review any changes in the SWPPP plan each week at the weekly meetings with University's Representative and others. At each weekly meeting, the Contractor shall submit a numbered checklist of the current status of each prevention measure on the job site.
 6. Installation of Post-Construction Best Management Practices (BMPs) in accordance with California Stormwater Quality Association's (CASQA's) *New Development and Redevelopment Stormwater Best Management Practice Handbook* and *Municipal Stormwater Best Management Practice Handbook*.
- C. In this section, the term "storm drain system" shall include storm water conduits, storm drain inlets and other storm drain structures, street gutters, channels, ditches, and the Arboretum waterway.
- D. Sanitary sewer discharge regulations are intended to provide protection of the sanitary sewer system and the campus Waste Water Treatment Plant (WWTP). In this section, "sanitary sewer" shall include any sanitary sewer manhole, clean out, sewer laterals or other connection to the WWTP.
- E. Contractor shall have storm water pollution prevention measures in place and conduct inspections year-round. It is the responsibility of the Contractor to be prepared for a rain event in the non-rainy season, and to be aware of weather predictions. The University is not responsible for informing the Contractor of rain predictions.
- F. Sanitary sewer blockages can result in a back-up and discharge to the storm drain system. Contractor shall immediately notify the University's Representative if they become aware of a clogged sanitary sewer associated with the project.

- G. Contractor shall not allow any non-storm water from the project to enter the storm drain system. Examples of non-storm water include water used for dust suppression, pipe flushing and testing, and domestic supply water used to wash streets, painting and drywall equipment, vehicles, or other uses. Contractor shall immediately notify the University's Representative if they become aware of non-storm water entering the storm drain system.
- H. Water resulting from de-watering an excavation may be discharged to a storm drain only if it is free of pollutants, including sediment. Contractor shall use methods such as a settling basin or filter to ensure that dewatering discharges are free of pollutants.
- I. All permanent structural and nonstructural control measures that are planned for the project to control pollutants in storm water discharges after construction is completed shall be delineated on a post-construction BMP Map. In this section "post-construction BMPs" shall include features designed to minimize pollutant discharges to the storm drain system such as bioswales, rain gardens, bioretention basins, and permeable pavement. Contractor shall provide operation and maintenance manuals for post-construction storm water management controls installed as part of this project.

1.3 REGULATIONS AND STANDARDS

- A. Contractor shall comply with the following applicable regulations:
 - 1. Clean Water Act, United States Environmental Protection Agency, and Porter-Cologne Water Quality Control Act, State of California.
 - 2. Central Valley Basin (Region 5) Water Quality Control Plan (Basin Plan), California Regional Water Quality Control Board, 1998 Edition including revisions.
 - 3. Construction General Permit, Waste Discharge Requirements Order No. 2009-0009 DWQ (National Pollutant Discharge Elimination System (NPDES) Permit No. CAS000002). This Order is referred to as the Construction General Permit (CGP).
 - 4. Small Municipal Separate Storm Sewer System (MS4) General Permit, Waste Discharge Requirements Order No. 2013-0001-DWQ NPDES Permit No. CAS 000004. WDID # 5S57M200002
- B. Contractor shall comply with the following standards and guidelines on storm water pollution prevention:
 - 1. California Stormwater Quality Association (CASQA) - Construction BMP Handbook Portal. This document is available for a fee from the CASQA website at <http://www.casqa.org/>

1.4 QUALITY ASSURANCE

- A. Storm Water Pollution Prevention Plan (SWPPP) shall be prepared and certified in accordance with the CGP.
- B. Qualified SWPPP Practitioner (QSP) shall oversee the implementation of all BMPs, monitoring, inspections and reports required by the Construction General Permit.

1.5 SUBMITTALS

- A. Submittals shall comply with requirements specified in Section 01 33 23 Shop Drawings, Product Data and Samples. All submittals listed below shall be submitted to the University's Representative 21 days prior to groundbreaking to allow for review and acceptance by the University of California Davis Office of Environmental Health & Safety (EH&S). No sitework may occur prior to review and certification of the submittals.
- B. Construction projects resulting in land disturbance of one acre or more shall submit Permit Registration Documents (PRDs) and a Post-Construction BMP Map. PRDs shall be electronically submitted [21] days prior to commencement of construction activity using the State Water Resources Control Board's Storm Water Multi-Application Report Tracking System (SMARTS) at <http://smarts.waterboards.ca.gov/smarts/faces/SwSmartsLogin>. Contractor must register as a Data Submitter in SMARTS and provide their user ID# to the University's Representative prior to

uploading PRDs. The following information shall be submitted and must be deemed complete by SMARTS, before a WDID number will be issued confirming coverage under the General Construction Permit.

- C. The Post-Construction BMP Map shall be submitted electronically to the University Representative with the initial PRDs. The Post-Construction BMP Map shall identify the storm water drainage patterns, drainage management areas, final impervious surfaces, vegetated areas, and all post-construction BMPs.
- D. Initial Permit Registration Documents (PRDs):
1. Notice of Intent (NOI)
 2. Risk Assessment (Construction Site Sediment and Receiving Water Risk Determination): The Contractor shall comply with additional permit requirements which are based on the outcome of the construction project risk determination. These requirements are outlined in the Construction General Permit (CGP).
 3. Site Map
 4. Storm Water Pollution Prevention Plan (SWPPP) including a Construction Site Monitoring Program (CSMP) shall be certified by a Qualified SWPPP Developer (QSD) and shall meet the minimum criteria using the SWPPP template in Section 2, Appendix B of the CASQA - Construction BMP Handbook Portal available at <http://www.casqa.org/>. The SWPPP must contain all required elements specified in the CGP.
 5. University's Representative will secure the Annual Permit Fee which is payable to the SWRCB.
- E. Additional PRD Requirements:
1. The Annual Report is due by August 15th of each year. The reporting period is July 1st to June 30th.
 - a. Submittal of the report is completed by filling out the Annual Report form in the SMARTS on-line reporting system.
 - b. Records of all inspections and training shall be submitted to the University's Representative with the Annual Report.
 2. Notice of Termination (NOT) required within 90 days of when construction is complete. The NOT shall include the following documentation.
 - a. Photos showing final site stabilization;
 - b. Annual Report for the final reporting period up to the point of when construction was completed.
 - c. Post-Construction Water Balance Calculation. The contractor shall perform a post-construction assessment using the SMARTS Construction General Permit post-construction calculator for all non-LUP projects which increase the area impervious surface from pre-project conditions. The NOT shall only be submitted if the post-project Runoff Volume minus Volume Credits are equal or less than the Pre-Project.
 - d. Operation and Maintenance Plan for all post-construction BMPs and identification of the campus department responsible for implementation.
- F. Site work shall not commence until the initial Permit Registration Documents (PRDs) have been electronically submitted to the State Water Resources Control Board's Storm Water Multi-Application Report Tracking System (SMARTS) and a WDID number has been issued to confirm coverage under the Construction General Permit. PRDs will be reviewed and certified by the University of California Davis, Office of Environmental Health & Safety.
- 1.6 TRAINING REQUIREMENTS
- A. A certified Qualified SWPPP Developer (QSD) shall write, amend and certify SWPPPs.

- B. A certified Qualified SWPPP Practitioner (QSP) shall oversee all BMPs installation and monitoring required by the CGP.
- C. The Contractor shall ensure that all staff installing BMPs and conducting site monitoring are trained by a QSP on at least an annual basis. Training documentation shall be retained in the SWPPP.

PART 2 - PRODUCTS

2.1 MATERIAL

- A. General: Provide materials as required for execution of the work.

PART 3 - EXECUTION

3.1 GENERAL

- A. The Contractor shall ensure that the SWPPP is current. Any change to schedule or project size shall be updated in SMARTS within 30 days of the increase to total disturbed acreage for projects greater than 1 acre.

3.2 SWPPP TOPICS

- A. The Contractor shall be responsible for the implementation of the SWPPP in accordance with the CGP and/or the SWMP until an NOT has been filed, or the Notice of Construction Project Completion Form has been submitted.
- B. Inspections shall be performed weekly, pre-storm, post-storm and at least once each 24-hour period during qualifying storm events by the QSP or a trained representative of the QSP. Non-storm water discharge observations shall be performed quarterly. A qualifying storm event has a 50 percent or greater probability of precipitation. Repairs and design changes to BMPs shall be implemented within 72 hours of identification.
- C. Installation of all post-construction BMPs shall be in accordance with CASQA's *New Development and Redevelopment Stormwater Best Management Practice Handbook* and *Municipal Stormwater Best Management Practice Handbook*.
- D. Retention of Records - All required storm water records must be maintained by the discharger for 3 years from the date the Notice of Termination (NOT) was approved by the RWQCB. Contractor shall provide copies of stormwater documents, inspections and reports to the University's representative at project completion.

3.3 ENVIRONMENTAL ENFORCEMENT

- A. The Central Valley RWQCB has authority to enforce, through codified regulations, any portions of this Section that may violate applicable regulations. Agency enforcement may include but is not limited to: citations, orders to abate, bills for cleanup costs and administration, civil suits, and criminal charges. Contract compliance action by the University shall not be construed to void or suspend any enforcement actions by these or other regulatory agencies.
- B. Contractor shall notify the University's Representative within 24 hours after issuance of any citation(s) issued by any regulatory agency and shall be responsible for all fines and costs necessary to correct the conditions listed in the citation(s) to include all legal fees and University expenses.

END OF SECTION 01 57 23