

1 Amend **Section 209 - TEMPORARY WATER POLLUTION, DUST, AND EROSION**  
2 **CONTROL** to read as follows:

3  
4  
5 **“SECTION 209 - TEMPORARY WATER POLLUTION, DUST, AND EROSION**  
6 **CONTROL**

7  
8  
9 **209.01 Description.** This section describes the following:

10  
11 **(A)** Including detailed plans, diagrams, and written Site-Specific Best  
12 Management Practices (BMP); constructing, maintaining, and repairing  
13 temporary water pollution, dust, and erosion control measures at the project  
14 site, including local material sources, work areas and haul roads; removing  
15 and disposing hazardous wastes; control of fugitive dust (defined as  
16 uncontrolled emission of solid airborne particulate matter from any source  
17 other than combustion); and complying with applicable State and Federal  
18 permit conditions.

19  
20 **(B)** Work associated with construction stormwater, dewatering, and  
21 hydrotesting activities and complying with conditions of the National Pollutant  
22 Discharge Elimination System (NPDES) permit(s) authorizing discharges  
23 associated with construction stormwater, dewatering, and hydrotesting  
24 activities.

25  
26 **(C)** Potential pollutant identification and mitigation measures are listed in  
27 Appendix A for use in the development of the Contractor’s Site-Specific BMP.

28  
29 Requirements of this section also apply to construction support  
30 activities including concrete or asphalt batch plants, rock crushing plants,  
31 equipment staging yards/areas, material storage areas, excavated material  
32 disposal areas, and borrow areas located outside the State Right-of-Way.  
33 For areas serving multiple construction projects, or operating beyond the  
34 completion of the construction project in which it supports, the Contractor  
35 shall be responsible for securing the necessary permits, clearances, and  
36 documents, and following the conditions of the permits and clearances, at no  
37 cost to the State.

38  
39 **209.02 Materials.** Comply with applicable materials described in Chapters 2 and  
40 3 of the current HDOT “Construction Best Management Practices Field Manual”. In  
41 addition, the materials shall comply with the following:

42  
43 **(A) Grass.** Grass shall be a quick growing species such as rye grass,  
44 Italian rye grass, or cereal grasses. Grass shall be suitable to the area and  
45 provide a temporary cover that will not compete later with permanent cover.  
46 Alternative grasses are allowable if acceptable to the Engineer.

47 **(B) Fertilizer and Soil Conditioners.** Fertilizer and soil conditioners shall  
48 be a standard commercial grade acceptable to the Engineer. Fertilizer shall  
49 conform to Subsection 619.02(H)(1) - Commercial Fertilizer.  
50

51 **(C) Hydro-mulching.** Hydro-mulching used as a temporary vegetative  
52 stabilization measure shall consist of materials in Subsections 209.02(A) -  
53 Grass, and 209.02(B) – Fertilizer and Soil Conditioners. Mulches shall be  
54 recycled materials including bagasse, hay, straw, wood cellulose bark, wood  
55 chips, or other material acceptable to the Engineer. Mulches shall be clean  
56 and free of noxious weeds and deleterious materials. Potable water shall  
57 meet the requirements of Subsection 712.01 - Water. Submit alternate  
58 sources of irrigation water for the Engineer's acceptance if deviating from  
59 712.01 - Water. Installation and other requirements shall be in accordance  
60 with portions of Section 641- Hydro-Mulch Seeding including 641.02(D) - Soil  
61 and Mulch Tackifier, 641.03(A) – Seeding, and 641.03(B) - Planting Period.  
62 Install non-vegetative controls including mulch or rolled erosion control  
63 products while the vegetation is being established. Water and fertilize grass.  
64 Apply fertilizer as recommended by the manufacturer. Replace grass the  
65 Engineer considers unsuitable or sick. Remove and dispose of trash and  
66 debris. Remove invasive species. Mow as needed to prevent site or signage  
67 obstructions, fire hazard, or nuisance to the public. Do not remove down  
68 stream sediment control measures until the vegetation is uniformly  
69 established, including no large bare areas, and provides 70 percent of the  
70 density of pre-disturbance vegetation. Temporary vegetative stabilization  
71 shall not be used longer than one year.  
72

73 **(D) Silt Fences.** Comply with ASTM D6462, Standard Practice for Silt  
74 Fence Installation.  
75

76 Alternative materials or methods to control, prevent, remove and dispose  
77 pollution are allowable if acceptable to the Engineer.  
78

### 79 **209.03 Construction.**

#### 81 **(A) Preconstruction Requirements.**

82  
83 **(1) Water Pollution, Dust, and Erosion Control Meeting.**  
84 Schedule a water pollution, dust, and erosion control meeting with the  
85 Engineer after Site-Specific BMP is accepted in writing by the  
86 Engineer. Meeting shall be scheduled a minimum of 7 calendar days  
87 prior to the Start Work Date. Discuss sequence of work, plans and  
88 proposals for water pollution, dust, and erosion control.  
89

90                   **(2) Water Pollution, Dust, and Erosion Control Submittals.**

91                   Submit a Site-Specific BMP Plan within 21 calendar days of date of  
92                   award. Submission of complete and acceptable Site-Specific BMP  
93                   Plan is the sole responsibility of the Contractor and additional contract  
94                   time will not be issued for delays due to incompleteness. Include the  
95                   following:

96  
97                   **(a)** Written description of activities to minimize water  
98                   pollution and soil erosion into State waters, drainage or sewer  
99                   systems. BMP shall include the following:

- 100                   1. An identification of potential pollutants and their  
101                   sources.
- 102                   2. A list of all materials and heavy equipment to be  
103                   used during construction.
- 104                   3. Descriptions of the methods and devices used to  
105                   minimize the discharge of pollutants into State waters,  
106                   drainage or sewer systems.
- 107                   4. Details of the procedures used for the  
108                   maintenance and subsequent removal of any erosion or  
109                   siltation control devices.
- 110                   5. Methods of removing and disposing hazardous  
111                   wastes encountered or generated during construction.
- 112                   6. Methods of removing and disposing concrete and  
113                   asphalt pavement cutting slurry, concrete curing water,  
114                   and hydrodemolition water.
- 115                   7. Spill Control and Prevention and Emergency Spill  
116                   Response Plan.
- 117                   8. Fugitive dust control, including dust from grinding,  
118                   sweeping, or brooming off operations or combination  
119                   thereof.
- 120                   9. Methods of storing and handling of oils, paints  
121                   and other products used for the project.
- 122                   10. Material storage and handling areas, and other  
123                   staging areas.
- 124                   11. Concrete truck washouts.

136                   **12.**     Concrete waste control.

137  
138                   **13.**     Fueling and maintenance of vehicles and other  
139                   equipment.

140  
141                   **14.**     Tracking of sediment offsite from project entries  
142                   and exits.

143  
144                   **15.**     Litter management.

145  
146                   **16.**     Toilet facilities.

147  
148                   **17.**     Other factors that may cause water pollution, dust  
149                   and erosion control.

150  
151                   **(b)**     Provide plans indicating location of water pollution, dust  
152                   and erosion control devices; provide plans and details of BMPs  
153                   to be installed or utilized; show areas of soil disturbance in cut  
154                   and fill, indicate areas used for construction staging and  
155                   storage including items (1) through (17) above, storage of  
156                   aggregate (indicate type of aggregate), asphalt cold mix, soil or  
157                   solid waste, equipment and vehicle parking, and show areas  
158                   where vegetative practices are to be implemented. Indicate  
159                   intended drainage pattern on plans. Include flow arrows.  
160                   Include separate drawing for each phase of construction that  
161                   alters drainage patterns. Indicate approximate date when  
162                   device will be installed and removed.

163  
164                   **(c)**     Construction schedule.

165  
166                   **(d)**     Name(s) of specific individual(s) designated responsible  
167                   for water pollution, dust, and erosion controls on the project  
168                   site. Include home, cellular, and business telephone numbers,  
169                   fax numbers, and e-mail addresses.

170  
171                   **(e)**     Description of fill material to be used.

172  
173                   **(f)**     For projects with an NPDES Permit for Construction  
174                   Activities, submit information to address all sections in the  
175                   Storm Water Pollution Prevention Plan (SWPPP).

176  
177                   **(g)**     For projects with an NPDES Permit, information required  
178                   for compliance with the conditions of the Notice of General  
179                   Permit Coverage (NGPC)/NPDES Permit.

181 (h) Site-Specific BMP Review Checklist. The checklist may  
182 be downloaded from HDOT's Stormwater Management  
183 website at <http://stormwaterhawaii.com>.  
184

185 Date and sign Site-Specific BMP Plan. Keep accepted  
186 copy on site or at an accessible location so that it can be made  
187 available at the time of an on-site inspection or upon request by  
188 the Engineer, HDOT Third-Party Inspector, and/or DOH/EPA  
189 Representative. Amendments to the Site-Specific BMP Plan  
190 shall be included with original Site-Specific BMP Plan. Modify  
191 SWPPP if necessary to conform to revisions. Include date of  
192 installation and removal of Site-Specific BMP measures.  
193 Obtain written acceptance by the Engineer before  
194 implementing revised Site-Specific BMPs in the field.  
195

196 Follow the guidelines in the current HDOT "Construction  
197 Best Management Practices Field Manual", in developing,  
198 installing, and maintaining Site-Specific BMPs for all projects.  
199 For any conflicting requirements between the Manual and  
200 applicable bid documents, the applicable bid documents will  
201 govern. Should a requirement not be clearly described within  
202 the applicable bid documents, notify the Engineer immediately  
203 for interpretation. For the purposes of clarification "applicable  
204 bid documents" include the construction plans, standard  
205 specifications, special provisions, Permits, and the SWPPP  
206 when applicable.  
207

208 Follow Honolulu's City and County "Rules for Soil  
209 Erosion Standards and Guidelines" for all projects on Oahu.  
210 Use respective Soil Erosion Guidelines for Maui, Kauai and  
211 Hawaii projects.  
212

213 **(B) Construction Requirements.** Do not begin work until submittals  
214 detailed in Subsection 209.03(A)(2) - Water Pollution, Dust, and Erosion  
215 Control Submittals are completed and accepted in writing by the Engineer.  
216

217 Install, maintain, monitor, repair and replace site-specific BMP  
218 measures, such as for water pollution, dust and erosion control; installation,  
219 monitoring, and operation of hydrotesting activities; removal and disposal of  
220 hazardous waste indicated on plans, concrete cutting slurry, concrete curing  
221 water; or hydrodemolition water. Site-Specific BMP measures shall be in  
222 place, functional and accepted by HDOT personnel prior to initiating any  
223 ground disturbing activities.  
224

If necessary, furnish and install rain gage in a secure location prior to field work including installation of site-specific BMP. Provide rain gage with a tolerance of at least 0.05 inches of rainfall. Install rain gage on project site in an area that will not deter rainfall from entering the gate opening. Do not install in a location where rain water may splash into rain gage. The rain gage installation shall be stable and plumbed. Maintain rain gage and replace rain gage that is stolen, does not function properly or accurately, is worn out, or needs to be relocated. Do not begin field work until rain gage is installed and Site-Specific BMPs are in place. Rain gage data logs shall be readily available. Submit rain gage data logs weekly to the Engineer.

Address all comments received from the Engineer.

Modify and resubmit plans and construction schedules to correct conditions that develop during construction which were unforeseen during the design and pre-construction stages.

Coordinate temporary control provisions with permanent control features throughout the construction and post-construction period.

Limit maximum surface area of earth material exposed at any time to 300,000 square feet. Do not expose or disturb surface area of earth material (including clearing and grubbing) until BMP measures are installed and accepted in writing by the Engineer. Protect temporarily or permanently disturbed soil surface from rainfall impact, runoff and wind before end of the work day.

Immediately initiate stabilizing exposed soil areas upon completion of earth disturbing activities for areas permanently or temporarily ceased on any portion of the site. Earth-disturbing activities have permanently ceased when clearing and excavation within any area of the construction site that will not include permanent structures has been completed. Earth-disturbing activities have temporarily ceased when clearing, grading, and excavation within any area of the site that will not include permanent structures will not resume for a period of 14 or more calendar days, but such activities will resume in the future. The term "immediately" is used in this section to define the deadline for initiating stabilization measures. "Immediately" means as soon as practicable, but no later than the end of the next work day, following the day when the earth-disturbing activities have temporarily or permanently ceased.

For projects with an NPDES Permit for Construction activities:

(1) For construction areas discharging into waters not impaired for nutrients or sediments, complete initial stabilization within 14 calendar days after the temporary or permanent cessation of earth-disturbing activities.

(2) For construction areas discharging into nutrient or sediment impaired waters, complete initial stabilization within 7 calendar days after the temporary or permanent cessation of earth-disturbing activities.

For projects without an NPDES Permit for Construction activities, complete initial stabilization within 14 calendar days after the temporary or permanent cessation of earth-disturbing activities.

Any of the following types of activities constitutes initiation of stabilization:

(1) Prepping the soil for vegetative or non-vegetative stabilization;

(2) Applying mulch or other non-vegetative product to the exposed area;

(3) Seeding or planting the exposed area;

(4) Starting any of the activities in items (1) – (3) above on a portion of the area to be stabilized, but not on the entire area; and

(5) Finalizing arrangements to have stabilization product fully installed in compliance with the deadline for completing initial stabilization activities.

Any of the following types of activities constitutes completion of initial stabilization activities:

(1) For vegetative stabilization, all activities necessary to initially seed or plant the area to be stabilized; and/or

(2) For non-vegetative stabilization, the installation or application of all such non-vegetative measures.

If the Contractor is unable to meet the deadlines above due to circumstances beyond the Contractor's control, and the Contractor is using vegetative cover for temporary or permanent stabilization, the Contractor may comply with the following stabilization deadlines instead as agreed to by the Engineer:

314 (1) Immediately initiate, and complete within the timeframe shown  
315 above, the installation of temporary non-vegetative stabilization  
316 measures to prevent erosion;

317  
318 (2) Complete all soil conditioning, seeding, watering or irrigation  
319 installation, mulching, and other required activities related to the  
320 planting and initial establishment of vegetation as soon as conditions  
321 or circumstances allow it on the site; and

322  
323 (3) Notify and provide documentation to the Engineer the  
324 circumstances that prevent the Contractor from meeting the deadlines  
325 above for stabilization and the schedule the Contractor will follow for  
326 initiating and completing initial stabilization and as agreed to by the  
327 Engineer.

328  
329 Follow the applicable requirements of the specifications and special  
330 provisions including Section 619 - Planting and Section 641 - Hydro-Mulch  
331 Seeding.

332  
333 Immediately after seeding or planting the area to be vegetatively  
334 stabilized, to the extent necessary to prevent erosion on the seeded or  
335 planted area, select, design, and install non-vegetative erosion controls that  
336 provide cover (e.g., mulch, rolled erosion control products) to the area while  
337 vegetation is becoming established.

338  
339 Protect exposed or disturbed surface area with mulches, grass seeds  
340 or hydromulch. Spray mulches at a rate of 2,000 pounds per acre. Add  
341 tackifier to mix at a rate of 85 pounds per acre. Apply grass seeds at a rate  
342 of 125 pounds per acre. For hydromulch, use the ingredients and rates  
343 required for mulches and grass seeds. Submit recommendations from a  
344 licensed Landscape Architect when deviating from the application rates  
345 above.

346  
347 Apply fertilizer to mulches, grass seed or hydromulch per  
348 manufacturer's recommendations. Submit recommendations from a licensed  
349 Landscape Architect when deviating from the manufacturer's  
350 recommendations.

351  
352 Install velocity dissipation measures when exposing erodible surfaces  
353 greater than 15 feet in height.

354  
355 BMP measures shall be in place and operational at the end of work  
356 day or as required by Section 209.03(B) - Construction Requirements.

Install and maintain either or both stabilized construction entrances and wheel washes to minimize tracking of dirt and mud onto roadways. Restrict traffic to stabilized construction areas only. Clean dirt, mud, or other material tracked onto the road, sidewalk, or other paved area by the end of the same day in which the track-out occurs. Modify stabilized construction entrances to prevent mud from being tracked onto road. Stabilize entire access roads if necessary.

Chemicals may be used as soil stabilizers for either or both erosion and dust control if acceptable to the Engineer.

Provide temporary slope drains of rigid or flexible conduits to carry runoff from cuts and embankments. Provide portable flume at the entrance. Shorten or extend temporary slope drains to ensure proper function.

Protect ditches, channels, and other drainageways leading away from cuts and fills at all times by either:

- (1) Hydro-mulching the lower region of embankments in the immediate area.
- (2) Installing check dams and siltation control devices.
- (3) Other methods acceptable to the Engineer.

Provide for controlled discharge of waters impounded, directed, or controlled by project activities or erosion control measures.

Cover exposed surface of materials completely with tarpaulin or similar device when transporting aggregate, soil, excavated material or material that may be source of fugitive dust.

Cleanup and remove any pollutant that can be attributed to the Contractor.

Install or modify Site-Specific BMP measures due to change in the Contractor's means and methods, or for omitted condition that should have been allowed for in the accepted Site-Specific BMP or a Site-Specific BMP that replaces an accepted Site-Specific BMP that is not satisfactorily performing. Modifications to Site-Specific BMP measures shall be accepted in writing by the Engineer prior to implementation.

Properly maintain all Site-Specific BMP measures.

For projects with an NPDES Permit for Construction Activities:

(1) For construction areas discharging into nutrient or sediment impaired waters, inspect, prepare a written report, and make repairs to BMP measures at the following intervals:

(a) Weekly.

(b) Within 24 hours of any rainfall of 0.25 inch or greater which occurs in a 24-hour period.

(c) When existing erosion control measures are damaged or not operating properly as required by Site-Specific BMP.

(2) For construction areas discharging to waters not impaired for nutrients or sediments, inspect, prepare a written report, and make repairs to BMP measures at the following intervals:

(a) Weekly.

(b) When existing erosion control measures are damaged or not operating properly as required by Site-Specific BMP.

For projects without an NPDES Permit for Construction activities, inspect, prepare a written report, and make repairs to BMP measures at the following intervals:

(a) Weekly.

(b) When existing erosion control measures are damaged or not operating properly as required by Site-Specific BMP.

Temporarily remove, replace or relocate any Site-Specific BMP that must be removed, replaced or relocated due to potential or actual flooding, or potential danger or damage to project or public.

Maintain records of inspections of Site-Specific BMP work. Keep continuous records for duration of the project. Submit copy of Inspection Report to the Engineer within 24 hours after each inspection.

The Contractor's designated representative specified in Subsection 209.03(A)(2)(d) shall address any Site-Specific BMP deficiencies brought up by the Engineer immediately, including weekends and holidays, and complete work to fix the deficiencies by the close of the next work day if the problem does not require significant repair or replacement, or if the problem can be corrected through routine maintenance. Address any Site-Specific BMP deficiencies brought up by the State's Third-Party Inspector in the timeframe above or as specified in the Consent Decree or MS4 NPDES

Permit, whichever is more stringent. The Consent Decree timeframe requirement applies statewide. The MS4 NPDES Permit only applies to Oahu. In this section, "immediately" means the Contractor shall take all reasonable measures to minimize or prevent discharge of pollutants until a permanent solution is installed and made operational. If a problem is identified at a time in the day in which it is too late to initiate repair, initiation of repair shall begin on the following work day. When installation of a new pollution prevention control or a significant repair is needed, complete installation or repair no later than 7 calendar days from the time of notification/Contractor discovery. Notify the Engineer and document why it is infeasible to complete the installation or repair within 7 calendar days and complete the work as soon as practicable and as agreed to by the Engineer. Address Site-Specific BMP deficiencies discovered by the Contractor within the timeframe above. The Contractor's failure to satisfactorily address these Site-Specific BMP deficiencies, the Engineer reserves the right to employ outside assistance or use the Engineer's own labor forces to provide necessary corrective measures. The Engineer will charge the Contractor such incurred costs plus any associated project engineering costs. The Engineer will make appropriate deductions from the Contractor's monthly progress estimate. Failure to apply Site-Specific BMP measures may result in one or more of the following: assessment of liquidated damages, suspension, or cancellation of Contract with the Contractor being fully responsible for all additional costs incurred by the State.

**(C) Discharges of Storm Water Associated with Construction Activities.** If work includes disturbance of one acre or more, an NPDES Permit authorizing Discharges of Storm Water Associated with Construction Activity (CWB-NOI Form C) or Individual Permit authorizing storm water discharges associated with construction activity is required from the Department of Health Clean Water Branch (DOH-CWB).

Do not begin construction activities until all required conditions of the permit are met and submittals detailed in Subsection 209.03(A)(2) – Water Pollution, Dust, and Erosion Control Submittals are completed and accepted in writing by the Engineer.

**(D) Discharges Associated with Hydrotesting Activities.** If hydrotesting activities require effluent discharge into State waters or drainage systems, an NPDES Hydrotesting Waters Permit (CWB-NOI Form F) or Individual Permit authorizing discharges associated with hydrotesting from DOH-CWB is required from the DOH-CWB.

Do not begin hydrotesting activities until the DOH-CWB has issued an Individual NPDES Permit or Notice of General Permit Coverage (NGPC). Conduct Hydrotesting operations in accordance with the conditions of the permit or NGPC.

**(E) Discharges Associated with Dewatering Activities.** If dewatering activities require effluent discharge into State waters or drainage systems, an NPDES Dewatering Permit (CWB-NOI Form G) or Individual Permit authorizing discharges associated with dewatering from DOH-CWB is required from the DOH-CWB.

Do not begin dewatering activities until the DOH-CWB has issued an Individual NPDES Permit or Notice of General Permit Coverage (NGPC). Conduct dewatering operations in accordance with the conditions of the permit or NGPC.

**(F) Solid Waste.** Submit the Solid Waste Disclosure Form for Construction Sites to the Engineer within 21 calendar days of date of award. Provide a copy of all the disposal receipts from the facility permitted by the Department of Health to receive solid waste to the Engineer monthly. This should also include documentation from any intermediary facility where solid waste is handled or processed, or as directed by the Engineer.

**(G) Construction BMP Training.** The Contractor's representative responsible for development of the Site-Specific BMP Plan and implementation of Site-Specific BMPs in the field shall attend the State's Construction Best Management Practices Training. The Contractor shall keep training logs updated and readily available.

#### **209.04 Measurement.**

**(A)** Installation, maintenance, monitoring, and removal of BMP will be paid on a lump sum basis. Measurement for payment will not apply.

**(B)** The Engineer will only measure additional water pollution, dust and erosion control required and requested by the Engineer on a force account basis in accordance with Subsection 109.06 – Force Account Provisions and Compensation.

**209.05 Payment.** The Engineer will pay for accepted pay items listed below at contract price per pay unit, as shown in the proposal schedule. Payment will be full compensation for work prescribed in this section and contract documents.

The Engineer will pay for each of the following pay items when included in proposal schedule:

<b>Pay Item</b>	<b>Pay Unit</b>
Installation, Maintenance, Monitoring, and Removal of BMP	Lump Sum
Additional Water Pollution, Dust, and Erosion Control	Force Account

543           An estimated amount for force account is allocated in proposal schedule  
544 under 'Additional Water Pollution, Dust, and Erosion Control', but actual amount to  
545 be paid will be the sum shown on accepted force account records, whether this sum  
546 be more or less than estimated amount allocated in proposal schedule. The  
547 Engineer will pay for BMP measures requested by the Engineer that are beyond  
548 scope of accepted Site-Specific BMP on a force account basis.

549  
550           No progress payment will be authorized until the Engineer accepts in writing  
551 Site-Specific BMP or when the Contractor fails to maintain project site in accordance  
552 with accepted BMP.

553  
554           For all citations or fines received by the Department for non-compliance,  
555 including compliance with NPDES Permit conditions, the Contractor shall reimburse  
556 State within 30 calendar days for full amount of outstanding cost State has incurred,  
557 or the Engineer will deduct cost from progress payment.

558  
559           The Engineer will assess liquidated damages up to \$27,500 per day for non-  
560 compliance of each BMP requirement and all other requirements in this section.  
561

## Appendix A

The following list identifies potential pollutant sources and corresponding BMPs used to mitigate the pollutants. Each BMP is referenced to the corresponding section of the current HDOT Construction Best Management Practices Field Manual or appropriate Supplemental Sheets. The Manual may be obtained from the HDOT Statewide Stormwater Management Program Website at <http://www.stormwaterhawaii.com/resources/contractors-and-consultants/> under Construction Best Management Practices Field Manual. Supplemental BMP sheets are located at <http://www.stormwaterhawaii.com/resources/contractors-and-consultants/storm-water-pollution-prevention-plan-swppp/> under Concrete Curing and Irrigation Water.

<b>Pollutant Source</b>	<b>Appropriate Site-Specific BMP to be Implemented</b>	<b>BMP Requirements</b>
<i>Construction debris, green waste, general litter</i>	<ul style="list-style-type: none"> <li>• <i>Separate contaminated clean up materials from construction and demolition (C&amp;D) wastes.</i></li> <li>• <i>Provide waste containers (e.g., dumpster or trash receptacle) of sufficient size and number to contain construction and domestic wastes.</i></li> <li>• <i>Inspect construction waste and recycling areas regularly.</i></li> <li>• <i>Schedule solid waste collection regularly.</i></li> <li>• <i>Schedule recycling activities based on construction/demolition phases.</i></li> <li>• <i>Empty waste containers weekly or when they are two-thirds full, whichever is sooner.</i></li> <li>• <i>Do not allow containers to overflow. Clean up immediately if they do.</i></li> <li>• <i>On work days, clean up and dispose of waste in designated waste containers.</i></li> <li>• <i>See Solid Waste Management Section SM-6 for additional requirements.</i></li> <li>• <i>Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.</i></li> <li>• <i>Collect and dispose of all waste materials in trash dumpsters. Place dumpsters, with secure watertight lids, away from storm water conveyances and drains, in a covered materials storage area.</i></li> <li>• <i>Dispose of construction and non- construction solid waste in accordance with State DOH regs.</i></li> <li>• <i>Load removed non- recyclable vegetation directly onto trucks; cover and transport to a licensed facility</i></li> </ul>	<i>See Solid Waste Management Section SM-6. Storm Drain Inlet Protection SC-1, and Perimeter Sediment Controls where applicable.</i>

<b>Pollutant Source</b>	<b>Appropriate Site-Specific BMP to be Implemented</b>	<b>BMP Requirements</b>
<i>Materials associated with the operation and maintenance of equipment, such as oil, fuel, and hydraulic fluid leakage</i>	<ul style="list-style-type: none"> <li>• <i>Use off-site wash racks, repair and maintenance facilities, and fueling sites when practical.</i></li> <li>• <i>Designate bermed wash area if cleaning on site is necessary.</i></li> <li>• <i>Place drip pans or drop cloths under vehicles and equipment to absorb spills or leaks.</i></li> <li>• <i>Provide an ample supply of readily available spill cleanup materials.</i></li> <li>• <i>Clean up spills immediately, using dry clean-up methods where possible, and dispose of used materials properly.</i></li> <li>• <i>Do not clean surfaces or spills by hosing the area down.</i></li> <li>• <i>Eliminate the source of the spill to prevent a discharge or a continuation of an ongoing discharge.</i></li> <li>• <i>Inspect on-site vehicles and equipment regularly and immediately repair leaks.</i></li> <li>• <i>Regularly inspect fueling areas and storage tanks.</i></li> <li>• <i>Train employees on proper maintenance and spill practices and procedures and fueling and cleanup procedures.</i></li> <li>• <i>Store diesel fuel, oil, hydraulic fluid, or other petroleum products or other chemicals in water-tight containers and provide cover or secondary containment.</i></li> <li>• <i>Do not remove original product labels and comply with manufacturer's labels for proper disposal.</i></li> <li>• <i>Dispose of containers only after all the product has been used.</i></li> <li>• <i>Dispose of or recycle oil or oily wastes according to Federal, State, and Local requirements.</i></li> <li>• <i>Store soaps, detergents, or solvents under cover or other means to prevent contact with rainwater.</i></li> <li>• <i>See Vehicle and Equipment Cleaning, Maintenance, and Refueling, Sections SM-11, SM-12, and SM-13 and Material Storage and Handling Section SM-2 for additional requirements.</i></li> </ul>	<i>See Vehicle and Equipment Cleaning, Maintenance, and Refueling, Sections SM-11, SM-12, and SM-13, and Material Storage and Handling, Section SM-2, and Spill Prevention and Control SM-10.</i>

<b>Pollutant Source</b>	<b>Appropriate Site-Specific BMP to be Implemented</b>	<b>BMP Requirements</b>
Soil erosion from the disturbed areas	<ul style="list-style-type: none"> <li>• Provide Soil Stabilization, Slope Protection, Storm Drain Inlet Protection SC-1, Perimeter Controls and Sediment Barriers, Sediment Basins and Detention Ponds, Check Dams SC-3 ,Level Spreader EC-6, Paving Operations SM-20, Construction Roads and Parking Area Stabilization SC-10, Controlling Storm Water Flowing Onto and Through the Project, Post-Construction BMPs, and Non-Structural BMPs (Construction BMP Training SM-1, Scheduling SM-14, Location of Potential Sources of Sediment SM-15, Preservation of Existing Vegetation SM-17).</li> <li>• Delineate, and clearly mark off, with flags, tape, or other similar marking device all natural buffer areas defined in the SWPPP.</li> <li>• Preserve native topsoil where practicable.</li> <li>• In areas where vegetative stabilization will occur, restrict vehicle/equipment use in areas to avoid soil compaction or condition soil to promote vegetative growth.</li> <li>• For Storm Drain Inlet Protection, clean, or remove and replace, the protection measures as sediment accumulates, the filter becomes clogged, and/or performance is compromised.</li> <li>• Where there is evidence of sediment accumulation adjacent to the inlet protection measure, remove the deposited sediment by the end of the same day in which it is found or by the end of the following work day if removal by the same day is not feasible.</li> <li>• Sediment basins shall be designed and maintained in accordance with HAR Chapter 11-55.</li> <li>• Minimize disturbance on steep slopes (Greater than 15% in grade).</li> <li>• If disturbance of steep slopes are unavoidable, phase disturbances and use stabilization techniques designed for steep grades.</li> <li>• For temporary drains and swales use velocity dissipation devices within and at the outlet to minimize erosive flow velocities.</li> </ul>	<p>Soil Stabilization</p> <ol style="list-style-type: none"> <li>1. SM-22 Topsoil Management</li> <li>2. EC-12 Seeding and Planting</li> <li>3. EC-14 Mulching</li> <li>4. EC-11 Geotextiles and Mats</li> </ol> <p>Slope Protection</p> <ol style="list-style-type: none"> <li>1. EC-12 Seeding and Planting</li> <li>2. EC-14 Mulching</li> <li>3. EC-11 Geotextiles and Mats</li> <li>4. EC-4 Slope Roughening, Terracing, and Rounding</li> <li>5. EC-7 Slope Drains and Subsurface Drains</li> <li>6. EC-9 Slope Interceptor or Diversion Ditches/Berms</li> </ol> <p>SC-1 Storm Drain Inlet Protection</p>

<b><i>Pollutant Source</i></b>	<b><i>Appropriate Site-Specific BMP to be Implemented</i></b>	<b><i>BMP Requirements</i></b>
		<p><i>Perimeter Controls and Sediment Barriers</i></p> <ol style="list-style-type: none"> <li>1. SC-7 Silt Fence or Filter Fabric Fence</li> <li>2. SC-2 Vegetated Filter Strips and Buffers</li> <li>3. SC-6 Compost Filter Berm/Sock</li> <li>4. SC-8 Sandbag Barrier</li> <li>5. SC-9 Brush or Rock Filter</li> </ol> <p><i>Sediment Basins and Detention Ponds</i></p> <ol style="list-style-type: none"> <li>1. SC-4 Sediment Trap</li> <li>2. SC-5 Sediment Basin</li> </ol> <p><i>SC-3 Check Dams</i></p> <p><i>EC-6 Level Spreader</i>  <i>SM-20 Paving Operations</i>  <i>SC-10 Construction Roads and Parking Area Stabilization</i></p>

<b><i>Pollutant Source</i></b>	<b><i>Appropriate Site-Specific BMP to be Implemented</i></b>	<b><i>BMP Requirements</i></b>
		<p><i>Controlling Storm Water Flowing onto and Through the Project</i></p> <ol style="list-style-type: none"> <li><i>1. EC-3 Run-On Diversion</i></li> <li><i>2. EC-5 Earth Dike, Swales and Ditches</i></li> </ol> <p><i>Post Construction BMPs</i></p> <ol style="list-style-type: none"> <li><i>1. EC-2 Flared Culvert End Sections</i></li> <li><i>2. EC-10 Rip-Rap and Gabion Inflow Protection</i></li> <li><i>3. EC-8 Outlet Protection and Velocity Dissipation Devices</i></li> <li><i>4. SM-22 Topsoil Management</i></li> </ol> <p><i>Non-Structural BMPs</i></p> <ol style="list-style-type: none"> <li><i>1. SM-1 Construction BMP Training</i></li> <li><i>2. SM-14 Scheduling</i></li> <li><i>3. SM-15 Location of Potential Sources of Sediment</i></li> <li><i>4. SM-17 Preservation of Existing Vegetation</i></li> </ol>

<b>Pollutant Source</b>	<b>Appropriate Site-Specific BMP to be Implemented</b>	<b>BMP Requirements</b>
<i>Sediment from soil stockpiles</i>	<ul style="list-style-type: none"> <li>• <i>Locate stockpiles a minimum of 50 feet or as far as practicable from concentrated runoff or outside of any natural buffers identified on the SWPPP.</i></li> <li>• <i>Place bagged materials on pallets and under cover.</i></li> <li>• <i>Provide physical diversion to protect stockpiles from concentrated runoff.</i></li> <li>• <i>Cover stockpiles with plastic or comparable material when practicable.</i></li> <li>• <i>Place silt fence, fiber filtration tubes, or straw wattles around stockpiles.</i></li> <li>• <i>Do not hose down or sweep soil or sediment accumulated on pavement or other impervious surfaces into any storm water conveyance (unless connected to a sediment basin, sediment trap, or similarly effective control), storm drain inlet, or state water.</i></li> <li>• <i>Unless infeasible, contain and securely protect stockpiles from the wind.</i></li> <li>• <i>Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable. See Stockpile Management Section SM-3 for additional requirements.</i></li> </ul>	<i>See Stockpile Management Section SM-3. Storm Drain Inlet Protection SC-1, and Perimeter Sediment Controls where applicable.</i>
<i>Emulsified asphalt or prime/tack coat</i>	<ul style="list-style-type: none"> <li>• <i>Provide training for employees and contractors on proper material delivery and storage practices and procedures.</i></li> <li>• <i>Restrict paving operations during wet weather to prevent paving materials from being discharged.</i></li> <li>• <i>Use asphalt emulsions such as prime coat when possible.</i></li> <li>• <i>Protect drain inlet structures and manholes during application of tack coat, seal coat, slurry seal, and fog seal.</i></li> <li>• <i>Keep ample supplies of drip pans and absorbent materials on site.</i></li> <li>• <i>Inspect inlet protection devices.</i></li> <li>• <i>See Material Storage and Handling Section SM-2 and Paving Operations Section SM-20 for additional requirements.</i></li> <li>• <i>Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.</i></li> </ul>	<i>See Material Storage and Handling Section SM-2, and Stockpile Management Section SM-3, Paving Operations Section SM-20, Storm Drain Inlet Protection SC-1, and Perimeter Sediment Controls where applicable.</i>

<b>Pollutant Source</b>	<b>Appropriate Site-Specific BMP to be Implemented</b>	<b>BMP Requirements</b>
<i>Materials associated with painting, such as paint and paint wash solvent</i>	<ul style="list-style-type: none"> <li><i>Hazardous chemicals shall be well-labeled and stored in original containers.</i></li> <li><i>Keep ample supply of cleanup materials on site.</i></li> <li><i>Dispose container only after all of the product has been used.</i></li> <li><i>Remove as much paint from brushes on painted surface.</i></li> <li><i>Rinse from water-based paints shall be discharged into the sanitary sewer system where possible. If not, direct all washwater into a leak-proof container or leak-proof pit. The container or pit must be designed so that no overflows can occur due to inadequate sizing or precipitation.</i></li> <li><i>Locate on-site wash area a minimum of 50 feet away or as far as practicable from storm drain inlets, open drainage facilities, or water bodies.</i></li> <li><i>Do not dump liquid wastes into the storm drainage system.</i></li> <li><i>Filter and re-use solvents and thinners.</i></li> <li><i>Dispose of oil-based paints and residue as a hazardous waste.</i></li> <li><i>Ensure collection, removal, and disposal of hazardous waste complies with regulations.</i></li> <li><i>Immediately clean up spills and leaks.</i></li> <li><i>Properly store paints, solvents, and epoxy compounds.</i></li> <li><i>Properly store and dispose waste materials generated from painting and structure repair and construction activities.</i></li> <li><i>Mix paints in a covered and contained area, when possible, to minimize adverse impacts from spills.</i></li> <li><i>Do not apply traffic paint or thermoplastic if rain is forecasted.</i></li> <li><i>See Material Storage and Handling Use SM-2, Hazardous Materials and Waste Management Section SM-9, Spill Prevention and Control Section SM-10, and Structure Construction and Painting Section SM-21 for additional requirements.</i></li> </ul> <p><i>Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.</i></p>	<i>See Material Storage and Handling Use Section SM-2, Stockpile Management Section SM-3, Hazardous Materials and Waste Management Section SM-9, Waste Management, Spill Prevention and Control Section SM-10, and Structure Construction and Painting Section SM-21, Storm Drain Inlet Protection SC-1, and Perimeter Sediment Controls where applicable.</i>

<b>Pollutant Source</b>	<b>Appropriate Site-Specific BMP to be Implemented</b>	<b>BMP Requirements</b>
<i>Industrial chemicals, fertilizers, and/or pesticides</i>	<ul style="list-style-type: none"> <li>• <i>Hazardous chemicals shall be well-labeled and stored in original containers.</i></li> <li>• <i>Keep ample supply of cleanup materials on site.</i></li> <li>• <i>Clean up spills immediately, using dry clean-up methods where possible, and dispose of used materials properly.</i></li> <li>• <i>Do not clean surfaces or spills by hosing the area down.</i></li> <li>• <i>Eliminate the source of the spill to prevent a discharge or a furtherance of an ongoing discharge.</i></li> <li>• <i>Dispose container only after all of the product has been used.</i></li> <li>• <i>Retain a complete set of safety data sheets (formerly MSDS) on site.</i></li> <li>• <i>Store industrial chemicals in water-tight containers and provide either cover or secondary containment.</i></li> <li>• <i>Provide cover when storing fertilizers or pesticides to prevent these chemicals from coming into contact with rainwater.</i></li> <li>• <i>Restrict amount of pesticide prepared to quantity necessary for the current application.</i></li> <li>• <i>Do not apply fertilizers or pesticides during or just before a rain event.</i></li> <li>• <i>Do not apply to stormwater conveyance channels with flowing water.</i></li> <li>• <i>Comply with fertilizer and pesticide manufacturer's recommended usage and disposal instructions. Document departures from manufacturer's specifications in Attachment J.</i></li> <li>• <i>Apply fertilizers at the appropriate time of year for the location, and preferably timed to coincide as closely as possible to the period of maximum vegetation uptake and growth.</i></li> <li>• <i>Follow federal, state, and local laws regarding fertilizer application.</i></li> <li>• <i>Do not dispose of toxic liquid wastes (solvents, used oils, and paints) or chemicals (additives, acids, and curing compounds) in dumpsters allocated for construction debris.</i></li> </ul>	<i>See Material Storage and Handling Use Section SM-2, Stockpile Management Section SM-3, and Hazardous Materials and Waste Management Section SM-9, and Spill Prevention and Control SM-10</i>

<b>Pollutant Source</b>	<b>Appropriate Site-Specific BMP to be Implemented</b>	<b>BMP Requirements</b>
	<ul style="list-style-type: none"> <li>• Ensure collection, removal, and disposal of hazardous waste complies with regulations. Hazardous waste that cannot be reused or recycled shall be disposed of by a licensed hazardous waste hauler.</li> </ul> <p>See Material Storage and Handling Use SM-2, and Hazardous Materials and Waste Management Section SM-9 for additional requirements.</p>	
Hazardous waste (Batteries, Solvents, Treated Lumber, etc.)	<ul style="list-style-type: none"> <li>• Do not dispose of toxic materials in dumpsters allocated for construction debris.</li> <li>• Ensure collection, removal, and disposal of hazardous waste complies with regulations.</li> <li>• Hazardous waste that cannot be reused or recycled shall be disposed of by a licensed hazardous waste hauler.</li> <li>• Segregate and recycle wastes from vehicle/equipment maintenance activities such as used oil or oil filters, greases, cleaning solutions, antifreeze, automotive batteries, and hydraulic and transmission fluids.</li> <li>• Store waste in sealed containers, which are constructed of suitable materials to prevent leakage and corrosion, and which are labeled in accordance with applicable Resource Conservation and Recovery Act (RCRA) requirements and all other applicable federal, state, and local requirements.</li> <li>• All containers stored outside shall be kept away from surface waters and within appropriately sized secondary containment (e.g., spill berms, decks, spill containment pallets). Provide cover if possible.</li> <li>• Clean up spills immediately, using dry clean-up methods where possible, and dispose of used materials properly.</li> <li>• Do not clean surfaces or spills by hosing the area down.</li> <li>• Eliminate the source of the spill to prevent a discharge or a continuation of an ongoing discharge.</li> </ul>	See Hazardous Materials and Waste Management Section SM-9 and Vehicle and Equipment Maintenance SM-12

<b>Pollutant Source</b>	<b>Appropriate Site-Specific BMP to be Implemented</b>	<b>BMP Requirements</b>
	<ul style="list-style-type: none"> <li>• Ensure collection, removal, and disposal of hazardous waste complies with manufacturer's recommendations and is in compliance with federal, state, and local requirements.</li> <li>• See Hazardous Materials and Waste Management Section SM-9 and Vehicle and Equipment Management, Vehicle and Equipment Maintenance SM-12 for additional requirements.</li> </ul>	
<i>Metals and Building Materials</i>	<ul style="list-style-type: none"> <li>• Inspect construction waste and recycling areas regularly.</li> <li>• Schedule solid waste collection regularly.</li> <li>• If building materials or metals are stored on site (such as rebar or galvanized poles) store under cover under tarps or in containers.</li> <li>• Minimize the amount of material stored on site.</li> <li>• Do not stockpile uncovered metals or other building materials in close proximity to discharge points.</li> <li>• See Solid Waste Management Section SM-6 for additional requirements.</li> </ul>	See Solid Waste Management Section SM-6
<i>Contaminated Soil</i>	<ul style="list-style-type: none"> <li>• See Waste Management, Contaminated Soil Management Section SM-8 and/or Hazardous Materials and Waste Management Section SM-9 for additional requirements.</li> <li>• At minimum contain contaminated material soil by surrounding with impermeable lined berms or cover exposed contaminated material with plastic sheets.</li> </ul>	See Waste Management, Contaminated Soil Management Section SM-8 and/or Hazardous Materials and Waste Management Section SM-9

<b>Pollutant Source</b>	<b>Appropriate Site-Specific BMP to be Implemented</b>	<b>BMP Requirements</b>
<i>Fugitive Dust Control and Dust Control Water</i>	<ul style="list-style-type: none"> <li>• Do not over spray water for dust control purposes which will result in runoff from the area.</li> <li>• Apply water as conditions require.</li> <li>• Washing down of debris or dirt into drainage, sewage systems, or State waters is not allowed.</li> <li>• Minimize exposed areas through the schedule of construction activities.</li> <li>• Utilize vegetation, mulching, sprinkling, and stone/gravel layering to quickly stabilize exposed soil.</li> <li>• Direct construction vehicle traffic to stabilized roadways.</li> <li>• Cover dump trucks hauling material from the site with a tarpaulin.</li> </ul> <p>See Dust Control Section SM-19 for additional requirements.</p>	See Dust Control Section SM-19
<i>Concrete Truck Wash Water</i>	<ul style="list-style-type: none"> <li>• Disposal of concrete truck wash water via percolation is prohibited.</li> <li>• Wash concrete-coated vehicles or equipment off-site or in the designated wash area.</li> <li>• Locate on-site wash area a minimum of 50 feet away or as far as practicable from storm drain inlets, open drainage facilities, or water bodies.</li> <li>• Runoff from the on-site concrete wash area shall be contained in a temporary pit or level bermed area where the concrete can set.</li> <li>• Design the area so that no overflow can occur due to inadequate wash area sizing or precipitation.</li> <li>• The temporary pit shall be lined with plastic to prevent seepage of wash water into the ground.</li> <li>• Allow wash water to evaporate or collect wash water and all concrete debris in a concrete washout system bin.</li> <li>• Do not dump liquid wastes into storm drainage system.</li> <li>• Dispose of liquid and solid concrete wastes in compliance with federal, state, and local standards.</li> <li>• See Waste Management, Concrete Wash and Waste Management Section SM-4 for additional requirements.</li> </ul>	See Waste Management, Concrete Wash and Waste Management Section SM-4

<b>Pollutant Source</b>	<b>Appropriate Site-Specific BMP to be Implemented</b>	<b>BMP Requirements</b>
<i>Sediment Track-Out</i>	<ul style="list-style-type: none"> <li>• <i>Include Stabilized Construction Entrance at all points that exit onto paved roads.</i></li> <li>• <i>A sediment trapping device is required if a wash rack is used in conjunction with the stabilized construction entrance/exit.</i></li> <li>• <i>The pavement shall not be cleaned by washing down the street.</i></li> <li>• <i>If sweeping is ineffective or it is necessary to wash the streets, wash water must be contained either by construction of a sump, diverting the water to an acceptable disposal area, or vacuuming the wash water.</i></li> <li>• <i>Use BMPs for adjacent drainage structures.</i></li> <li>• <i>Remove sediment tracked onto the street by the end of the day in which the track-out occurs.</i></li> <li>• <i>Restrict vehicle use to properly designated exit points.</i></li> <li>• <i>Include additional BMPs that remove sediment prior to exit when minimum dimensions cannot be met.</i></li> </ul> <p><i>See Stabilized Construction Entrance/Exit Section SC-11 for additional requirements.</i></p>	<i>See Stabilized Construction Entrance/Exit Section SC-11</i>
<i>Irrigation Water</i>	<ul style="list-style-type: none"> <li>• <i>Consider irrigation requirements.</i></li> <li>• <i>Where possible, avoid species which require irrigation.</i></li> <li>• <i>Design, timing and application methods of irrigation water to eliminate the runoff of excess irrigation water into the storm water drainage system.</i></li> </ul> <p><i>See Seeding and Planting Section EC-12 and California Stormwater BMP Handbook SD-12 Efficient Irrigation included in SWPPP Attachment A for additional requirements.</i></p>	<i>See Seeding and Planting Section EC-12 and California Stormwater BMP Handbook SD-12 Efficient Irrigation</i>
<i>Hydrotesting Effluent</i>	<ul style="list-style-type: none"> <li>• <i>If work includes removing, relocation or installing waterlines, and Contractor elects to flush waterline or discharge hydrotesting effluent into State waters or drainage systems, the Contractor shall prepare and obtain HDOT acceptance of a NOI/NPDES Permit Form F application for HDOT submittal to DOH CWB at least 30 calendar days prior to the start of Hydrotesting Activities if necessary. Site specific BMPs will be included in the NOI/NPDES Permit Form F submittal.</i></li> </ul>	<i>Site specific BMPs will be included in the NOI/NPDES Permit Form F submittal.</i>

<b>Pollutant Source</b>	<b>Appropriate Site-Specific BMP to be Implemented</b>	<b>BMP Requirements</b>
<i>Dewatering Effluent</i>	<i>If excavation or backfilling operations require dewatering, and Contractor elects to discharge dewatering effluent into State waters or existing drainage systems, Contractor shall prepare and obtain HDOT acceptance of a NOI/NPDES Permit Form G application for HDOT submittal to DOH CWB at least 30 calendar days prior to the start of Dewatering Activities if necessary. See Site Planning and General Practices, Dewatering Operations Section SM-18 for additional requirements.</i>	<i>See Dewatering Operations SM-18. Site specific BMPs will be included in the NOI/NPDES Permit Form G submittal.</i>
<i>Saw-cutting Slurry</i>	<ul style="list-style-type: none"> <li>• <i>Saw cut slurry shall be removed from the site by vacuuming.</i></li> <li>• <i>Provide storm drain protection during saw cutting. See Paving Operations Section SM-20 for additional requirements.</i></li> </ul> <i>Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.</i>	<i>See Paving Operations Section SM-20, Storm Drain Inlet Protection SC-1, Perimeter sediment controls where applicable</i>
<i>Concrete Curing Water</i>	<ul style="list-style-type: none"> <li>• <i>Avoid overspraying of curing compounds.</i></li> <li>• <i>Apply an amount of compound that covers the surface, but does not allow any runoff of the compound.</i></li> </ul> <i>See California Stormwater BMP Handbook NS-12 Concrete Curing included in SWPPP Attachment A for additional requirements.</i>	<i>See California Stormwater BMP Handbook NS-12 Concrete Curing</i>

<b>Pollutant Source</b>	<b>Appropriate Site-Specific BMP to be Implemented</b>	<b>BMP Requirements</b>
<i>Plaster Waste Water</i>	<ul style="list-style-type: none"> <li>• <i>Direct all washwater into a leak-proof container or leak-proof pit. The container or pit must be designed so that no overflows can occur due to inadequate sizing or precipitation.</i></li> <li>• <i>Locate on-site wash area a minimum of 50 feet away or as far as practicable from storm drain inlets, open drainage facilities, or water bodies.</i></li> <li>• <i>Any significant residual materials remaining on the ground after the completion of construction shall be removed and properly disposed. If the residual materials contaminate the soil, then the contaminated soil shall also be removed and properly disposed of.</i></li> <li>• <i>Plaster waste water shall not be allowed to flow into drainage structures or State waters. See Material, Storage and Handling Use SM-2, Stockpile Management Use Section SM-3, and Hazardous Materials and Waste Management Section SM-9 for additional requirements.</i></li> </ul>	<i>See Material, Storage and Handling Use Section SM-2, Stockpile Management Use Section SM-3, and Hazardous Materials and Waste Management Section SM-9</i>
<i>Water-Jet Wash Water</i>	<ul style="list-style-type: none"> <li>• <i>For Water-Jet Wash Water used to clean vehicles, use off site wash racks or commercial washing facilities when practical.</i></li> <li>• <i>See Vehicle and Equipment Cleaning Section SM-11 for additional information.</i></li> <li>• <i>For Water-Jet Wash Water used to clean impervious surfaces, the runoff shall not be allowed to flow into drainage structures or State Waters.</i></li> </ul>	<i>See Vehicle and Equipment Cleaning Section SM-11</i>
<i>Sanitary/Septic Waste</i>	<ul style="list-style-type: none"> <li>• <i>Locate Sanitary facilities in a convenient place away from drainage facilities.</i></li> <li>• <i>Position sanitary facilities so they are secure and will not be tipped over or knocked down.</i></li> <li>• <i>Wastewater shall not be discharged to the ground or buried.</i></li> <li>• <i>A licensed service provider shall maintain sanitary/septic facilities in good working order.</i></li> <li>• <i>Schedule regular waste collection by a licensed transporter.</i></li> <li>• <i>See Sanitary Waste Section SM-7 for additional requirements.</i></li> </ul>	<i>See Sanitary Waste Section SM-7.</i>

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**END OF SECTION 209**

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