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

## "SECTION 209 - TEMPORARY WATER POLLUTION, DUST, AND EROSION CONTROL

- 209.01 **Description.** This section describes the following:
  - (A) Including detailed plans, diagrams, and written Site-Specific Best Management Practices (BMP); constructing, maintaining, and repairing temporary water pollution, dust, and erosion control measures at the project site, including local material sources, work areas and haul roads; removing and disposing hazardous wastes; control of fugitive dust (defined as uncontrolled emission of solid airborne particulate matter from any source other than combustion); and complying with applicable State and Federal permit conditions.
  - (B) Work associated with construction stormwater, dewatering, and hydrotesting activities and complying with conditions of the National Pollutant Discharge Elimination System (NPDES) permit(s) authorizing discharges associated with construction stormwater, dewatering, and hydrotesting activities.

Potential pollutant identification and mitigation measures are listed in Appendix A for use in the development of the Contractor's Site-Specific BMP.

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

Materials. Comply with applicable materials described in Chapters 2 and 3 of the current HDOT "Construction Best Management Practices Field Manual". In addition, the materials shall comply with the following:

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

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- **(B)** Fertilizer and Soil Conditioners. Fertilizer and soil conditioners shall be a standard commercial grade acceptable to the Engineer. Fertilizer shall conform to Subsection 619.02(H)(1) Commercial Fertilizer.
- (C) Hydro-mulching. Hydro-mulching used as a temporary vegetative stabilization measure shall consist of materials in Subsections 209.02(A) -Grass, and 209.02(B) - Fertilizer and Soil Conditioners. Mulches shall be recycled materials including bagasse, hav, straw, wood cellulose bark, wood chips, or other material acceptable to the Engineer. Mulches shall be clean and free of noxious weeds and deleterious materials. Potable water shall meet the requirements of Subsection 712.01 - Water. Submit alternate sources of irrigation water for the Engineer's acceptance if deviating from 712.01 - Water. Installation and other requirements shall be in accordance with portions of Section 641- Hydro-Mulch Seeding including 641.02(D) - Soil and Mulch Tackifier, 641.03(A) - Seeding, and 641.03(B) - Planting Period. Install non-vegetative controls including mulch or rolled erosion control products while the vegetation is being established. Water and fertilize grass. Apply fertilizer as recommended by the manufacturer. Replace grass the Engineer considers unsuitable or sick. Remove and dispose of trash and debris. Remove invasive species. Mow as needed to prevent site or signage obstructions, fire hazard, or nuisance to the public. Do not remove down stream sediment control measures until the vegetation is uniformly established, including no large bare areas, and provides 70 percent of the density of pre-disturbance vegetation. Temporary vegetative stabilization shall not be used longer than one year.
- **(D) Silt Fences.** Comply with ASTM D6462, Standard Practice for Silt Fence Installation.

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

## 209.03 Construction.

(A) Preconstruction Requirements.

- (1) Water Pollution, Dust, and Erosion Control Meeting. Schedule a water pollution, dust, and erosion control meeting with the Engineer after Site-Specific BMP is accepted in writing by the Engineer. Meeting shall be scheduled a minimum of 14 calendar days prior to the Start Work Date. Discuss sequence of work, plans and proposals for water pollution, dust, and erosion control.
- (2) Water Pollution, Dust, and Erosion Control Submittals. Submit a Site-Specific BMP Plan within 30 calendar days of contract execution. Submission of complete and acceptable Site-Specific BMP Plan is the sole responsibility of the Contractor and additional contract

95	time will not be issued for delays due to incompleteness. Include the	
96	following:	
97		
98	(a) Written description of activities to minimize water	
99	pollution and soil erosion into State waters, drainage or sewer	
100	systems. BMP shall include the following:	
101		
102	<ol> <li>An identification of potential pollutants and their</li> </ol>	
103	sources.	
104		
105	<ol><li>A list of all materials and heavy equipment to be</li></ol>	
106	used during construction.	
107		
108	<ol><li>Descriptions of the methods and devices used to</li></ol>	
109	minimize the discharge of pollutants into State waters,	
110	drainage or sewer systems.	
111		
112	<ol><li>Details of the procedures used for the</li></ol>	
113	maintenance and subsequent removal of any erosion or	
114	siltation control devices.	
115		
116	<ol><li>Methods of removing and disposing hazardous</li></ol>	
117	wastes encountered or generated during construction.	
118		
119	<ol><li>Methods of removing and disposing concrete and</li></ol>	
120	asphalt pavement cutting slurry, concrete curing water,	
121	and hydrodemolition water.	
122		
123	<ol><li>Spill Control and Prevention and Emergency Spill</li></ol>	
124	Response Plan.	
125		
126	8. Fugitive dust control, including dust from	
127	grinding, sweeping, or brooming off operations or	
128	combination thereof.	
129		
130	<ol><li>Methods of storing and handling of oils, paints</li></ol>	
131	and other products used for the project.	
132		
133	<ol><li>Material storage and handling areas, and other</li></ol>	
134	staging areas.	
135		
136	<ol><li>Concrete truck washouts.</li></ol>	
137		
138	<b>12.</b> Concrete waste control.	
139		
140	13. Fueling and maintenance of vehicles and other	
141	equipment.	
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142		
143	14.	Tracking of sediment offsite from project entries
144	and e	
145		
146	15,	Litter management.
147		g
148	16.	Toilet facilities.
149		, c.n.c., c.a.c.,
150	17.	Other factors that may cause water pollution,
151		and erosion control.
152		
153	(b) Prov	ide plans indicating location of water pollution, dust
154	• •	control devices; provide plans and details of BMPs
155		ed or utilized; show areas of soil disturbance in cut
156		dicate areas used for construction staging and
157		luding items (1) through (17) above, storage of
158	-	indicate type of aggregate), asphalt cold mix, soil or
159	solid waste	, equipment and vehicle parking, and show areas
160	where vege	etative practices are to be implemented. Indicate
161	intended dr	rainage pattern on plans. Include flow arrows.
162	Include sep	arate drawing for each phase of construction that
163	alters drain	age patterns. Indicate approximate date when
164	device will b	pe installed and removed.
165		
166	(c) Cons	struction schedule.
167		
168	(d) Nam	e(s) of specific individual(s) designated responsible
169	•	ollution, dust, and erosion controls on the project
170		e home, cellular, and business telephone numbers,
171	fax number	s, and e-mail addresses.
172		
173	(e) Desc	cription of fill material to be used.
174		
175		projects with an NPDES Permit for Construction
176	•	submit information to address all sections in the
177	Storm Wate	er Pollution Prevention Plan (SWPPP).
178	_	
179		projects with an NPDES Permit, information
180	•	compliance with the conditions of the Notice of
181	-General Pe	rmit Coverage (NGPC)/NPDES Permit.
182	/LX 5"	O. TE DUD D. C. LILL TO LILL
183		Specific BMP Review Checklist. The checklist may
184		aded from HDOT's Stormwater Management
185	website at h	nttp://stormwaterhawaii.com.
186	<b>D</b> = 1	and sine Oite One side DMD Disc. March 2011
187		and sign Site-Specific BMP Plan. Keep accepted
188	copy on site	e or at an accessible location so that it can be made
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available at the time of an on-site inspection or upon request by the Engineer, HDOT Third-Party Inspector, and/or DOH/EPA Representative. Amendments to the Site-Specific BMP Plan shall be included with original Site-Specific BMP Plan. Modify SWPPP if necessary to conform to revisions. Include date of installation and removal of Site-Specific BMP measures. Obtain written acceptance by the Engineer before implementing revised Site-Specific BMPs in the field.

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

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

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

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

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

236	readily available. Submit rain gage data logs weekly to the Engineer.
237 238	Address all comments received from the Engineer.
239	Addiess all comments received from the Engineer.
240	Modify and resubmit plans and construction schedules to correct
241	conditions that develop during construction which were unforeseen during the
242	design and pre-construction stages.
243	
244	Coordinate temporary control provisions with permanent control
245	features throughout the construction and post-construction period.
246	
247	Limit maximum surface area of earth material exposed at any time to
248	300,000 square feet. Do not expose or disturb surface area of earth material
249	(including clearing and grubbing) until BMP measures are installed and
250	accepted in writing by the Engineer. Protect temporarily or permanently
251 252	disturbed soil surface from rainfall impact, runoff and wind before end of the work day.
252 253	work day.
254	Immediately initiate stabilizing exposed soil areas upon completion of
255	earth disturbing activities for areas permanently or temporarily ceased on any
256	portion of the site. Earth-disturbing activities have permanently ceased when
257	clearing and excavation within any area of the construction site that will not
258	include permanent structures has been completed. Earth-disturbing activities
259	have temporarily ceased when clearing, grading, and excavation within any
260	area of the site that will not include permanent structures will not resume for
261	a period of 14 or more calendar days, but such activities will resume in the
262	future. The term "immediately" is used in this section to define the deadline
263	for initiating stabilization measures. "Immediately" means as soon as
264	practicable, but no later than the end of the next work day, following the day
265	when the earth-disturbing activities have temporarily or permanently ceased.
266	Francisco de SIR de NIDREO Descrit for Occadoration de Cidina
267	For projects with an NPDES Permit for Construction activities:
268	4) For construction areas discharging into waters not impaired for
269 270	<ol> <li>For construction areas discharging into waters not impaired for nutrients or sediments, complete initial stabilization within 14 calendar</li> </ol>
270	days after the temporary or permanent cessation of earth-disturbing
272	activities.
273	dottvitioo.
274	2) For construction areas discharging into nutrient or sediment
275	impaired waters, complete initial stabilization within 7 calendar days
276	after the temporary or permanent cessation of earth-disturbing
277	activities.
278	
279	For projects without an NPDES Permit for Construction activities,
280	complete initial stabilization within 14 calendar days after the temporary or
281	permanent cessation of earth-disturbing activities.
282	

283 284	Any of the following types of activities constitutes initiation of stabilization:
285	Stabilization.
286 287	(1) Prepping the soil for vegetative or non-vegetative stabilization;
288	(2) Applying mulch or other non-vegetative product to the exposed
289	area;
290 291	(3) Seeding or planting the exposed area;
291 292	(5) Seeding of planting the exposed area,
293	(4) Starting any of the activities in items (1) – (3) above on a portion
294	of the area to be stabilized, but not on the entire area; and
295	
296	(5) Finalizing arrangements to have stabilization product fully installed
297	in compliance with the deadline for completing initial stabilization
298	activities.
299 300	Any of the following types of activities constitutes completion of initial
301	stabilization activities:
302	Stabilization activities.
303	(1) For vegetative stabilization, all activities necessary to initially seed
304	or plant the area to be stabilized; and/or
305	of plant the area to be stablifized, analor
306	(2) For non-vegetative stabilization, the installation or application of all
307	such non-vegetative measures.
308	
309	If the Contractor is unable to meet the deadlines above due to
310	circumstances beyond the Contractor's control, and the Contractor is using
311	vegetative cover for temporary or permanent stabilization, the Contractor
312	may comply with the following stabilization deadlines instead as agreed to by
313	the Engineer:
314	(4) leave ediately initiate and complete within the timeforce of a com-
315 316	(1) Immediately initiate, and complete within the timeframe shown
317	above, the installation of temporary non-vegetative stabilization measures to prevent erosion;
318	measures to prevent erosion,
319	(2) Complete all soil conditioning, seeding, watering or irrigation
320	installation, mulching, and other required activities related to the
321	planting and initial establishment of vegetation as soon as conditions
322	or circumstances allow it on the site; and
323	
324	(3) Notify and provide documentation to the Engineer the
325	circumstances that prevent the Contractor from meeting the deadlines
326	above for stabilization and the schedule the Contractor will follow for
327	initiating and completing initial stabilization and as agreed to by the
328	Engineer.
329	

330 Follow the applicable requirements of the specifications and special provisions including Section 619 – Planting and Section 641 – Hydro-Mulch 331 Seeding. 332 333 334 Immediately after seeding or planting the area to be vegetatively stabilized, to the extent necessary to prevent erosion on the seeded or 335 336 planted area, select, design, and install non-vegetative erosion controls that provide cover (e.g., mulch, rolled erosion control products) to the area while 337 338 vegetation is becoming established. 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 348 349 manufacturer's recommendations. Submit recommendations from a licensed Landscape Architect when deviating from the manufacturer's 350 recommendations. 351 352 353 Install velocity dissipation measures when exposing erodible surfaces greater than 15 feet in height. 354 355 356 BMP measures shall be in place and operational at the end of work day or as required by Section 209.03(B) - Construction Requirements. 357 358 359 Install and maintain either or both stabilized construction entrances 360 and wheel washes to minimize tracking of dirt and mud onto roadways. Restrict traffic to stabilized construction areas only. Clean dirt, mud, or other 361 362 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 363 364 entrances to prevent mud from being tracked onto road. Stabilize entire access roads if necessary. 365 366 367 Chemicals may be used as soil stabilizers for either or both erosion and dust control if acceptable to the Engineer. 368 369 Provide temporary slope drains of rigid or flexible conduits to carry 370 runoff from cuts and embankments. Provide portable flume at the entrance. 371 372 Shorten or extend temporary slope drains to ensure proper function. 373 374 Protect ditches, channels, and other drainageways leading away from 375 cuts and fills at all times by either: 376

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423	(b) When existing erosion control measures are	e damaged or
422		•
421	(a) Weekly.	
420		
419	repairs to BMP measures at the following intervals:	
418	nutrients or sediments, inspect, prepare a written repo	ort, and make
417	(2) For construction areas discharging to waters no	
416		
415	not operating properly as required by Site-Spec	•
414	(c) When existing erosion control measures are	e damaged or
413	•	
412	occurs in a 24-hour period.	<u> </u>
411	(b) Within 24 hours of any rainfall of 0.25 inch or	greater which
410	· · · · · · · · · · · · · · · · · · ·	
409	(a) Weekly.	
408		
407	BMP measures at the following intervals:	opano to
406	impaired waters, inspect, prepare a written report, and m	
40 <del>4</del> 405	(1) For construction areas discharging into nutrient	t or sediment
403 404	To projects with all Ni DEGT ethilt for Constitution A	ouyiucs.
402 403	For projects with an NPDES Permit for Construction A	ctivities.
401 402	Properly maintain all Site-Specific BMP measures.	
400 401	Dronorly maintain all Cita Chasifia DMD massures	
399	in writing by the Engineer prior to implementation.	
398	performing. Modifications to Site-Specific BMP measures sha	II be accepted
397	that replaces an accepted Site-Specific BMP that is not	
396	been allowed for in the accepted Site-Specific BMP or a Site-	•
395	Contractor's means and methods, or for omitted condition that	
394	Install or modify Site-Specific BMP measures due to	_
393		
392	Contractor.	_
391	Cleanup and remove any pollutant that can be attr	ibuted to the
390	,	
389	may be source of fugitive dust.	, , , naconar a lat
388	device when transporting aggregate, soil, excavated material of	
387	Cover exposed surface of materials completely with tarpa	aulin or similar
386	controlled by project activities of crosion control measures.	
384 385	controlled by project activities or erosion control measures.	a, unecled, of
383 384	Provide for controlled discharge of waters impounded	d directed or
382	(3) Other methods acceptable to the Engineer.	
381	(2) Other mostly also assertable to the Paris	
380	(2) Installing check dams and siltation control device	es.
379		
378	immediate area.	
377	(1) Hydro-mulching the lower region of embank	ments in the

not operating properly as required by Site-Specific BMP.

424 425 426

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

428 429 430

427

(a) Weekly.

431 432

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

433 434 435

436

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.

437 438 439

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.

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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 seven 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 seven calendar days and complete the work as soon as practicable and as agreed to by the 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 30 calendar days of contract execution. 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.

518	(G) Construction BMP Training. The Contractor's representative
519	responsible for development of the Site-Specific BMP Plan and
520	implementation of Site-Specific BMPs in the field shall attend the State's
521	Construction Best Management Practices Training. The Contractor shall
522	keep training logs updated and readily available.
523	noop naming jogo apaatoa ama roaamy aramabio.
524	209.04 Measurement.
525	2010 - Modeli Chieff.
526	(A) Installation, maintenance, monitoring, and removal of BMP will be paid
527	on a lump sum basis. Measurement for payment will not apply.
528	on a famp sum basis. Measurement for payment will not apply.
529	(B) The Engineer will only measure additional water pollution, dust and
530	erosion control required and requested by the Engineer on a force account
531	basis in accordance with Subsection 109.06 – Force Account Provisions and
532	Compensation.
533	200 OF D 4 TO T 5 30 C 4 1 3 P 1 1 1 2 2 4
534	209.05 Payment. The Engineer will pay for accepted pay items listed below at
535	contract price per pay unit, as shown in the proposal schedule. Payment will be full
536	compensation for work prescribed in this section and contract documents.
537	
538	The Engineer will pay for each of the following pay items when included in
539	proposal schedule:
540	
541	Pay Item Pay Unit
542	
543	Installation, Maintenance, Monitoring, and Removal of BMP Lump Sum
544	
545	Additional Water Pollution, Dust, and Erosion Control Force Account
546	
547	An estimated amount for force account is allocated in proposal schedule
548	under 'Additional Water Pollution, Dust, and Erosion Control', but actual amount to
549	be paid will be the sum shown on accepted force account records, whether this sum
550	be more or less than estimated amount allocated in proposal schedule. The
551	Engineer will pay for BMP measures requested by the Engineer that are beyond
552	scope of accepted Site-Specific BMP on a force account basis.
553	
554	No progress payment will be authorized until the Engineer accepts in writing
555	Site-Specific BMP or when the Contractor fails to maintain project site in accordance
556	with accepted BMP.
557	
558	For all citations or fines received by the Department for non-compliance,
559	including compliance with NPDES Permit conditions, the Contractor shall reimburse
560	State within 30 calendar days for full amount of outstanding cost State has incurred,
561	or the Engineer will deduct cost from progress payment.
562	or the English will dodder book holit progress paymont.
563	The Engineer will assess liquidated damages up to \$27,500 per day for non-
564	compliance of each BMP requirement and all other requirements in this section.
565	• • • • • • • • • • • • • • • • • • • •
202	NU AEC 1/EA)

## 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 <a href="http://www.stormwaterhawaii.com/resources/contractors-and-consultants/">http://www.stormwaterhawaii.com/resources/contractors-and-consultants/</a> under Construction Best Management Practices Field Manual. Supplemental BMP sheets are located at <a href="http://www.stormwaterhawaii.com/resources/contractors-and-consultants/storm-water-pollution-prevention-plan-swppp/">http://www.stormwaterhawaii.com/resources/contractors-and-consultants/storm-water-pollution-prevention-plan-swppp/</a> under Concrete Curing and Irrigation Water.

Pollutant	Appropriate Site-Specific BMP to be Implemented	BMP Decreirements
Source		Requirements
Construction debris, green waste, general litter	<ul> <li>Separate contaminated clean up materials from construction and demolition (C&amp;D) wastes.</li> <li>Provide waste containers (e.g., dumpster or trash receptacle) of sufficient size and number to contain construction and domestic wastes.</li> <li>Inspect construction waste and recycling areas regularly.</li> <li>Schedule solid waste collection regularly.</li> <li>Schedule recycling activities based on construction/demolition phases.</li> <li>Empty waste containers weekly or when they are two-thirds full, whichever is sooner.</li> <li>Do not allow containers to overflow. Clean up immediately if they do.</li> <li>On work days, clean up and dispose of waste in designated waste containers.</li> <li>See Solid Waste Management Section SM-6 for additional requirements.</li> <li>Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.</li> </ul>	See Solid Waste Management Section SM-6. Protect Storm Drain Inlets SC-2, and Perimeter Sediment Controls where applicable.
Materials associated with the operation and maintenance of equipment, such as oil, fuel, and hydraulic fluid leakage	<ul> <li>Use off-site wash racks, repair and maintenance facilities, and fueling sites when practical.</li> <li>Designate bermed wash area if cleaning on site is necessary.</li> <li>Place drip pans or drop cloths under vehicles and equipment to absorb spills or leaks.</li> <li>Provide an ample supply of readily available spill cleanup materials.</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> <li>Inspect on-site vehicles and equipment regularly and immediately repair leaks.</li> <li>Regularly inspect fueling areas and storage tanks.</li> </ul>	See Vehicle and Equipment Cleaning, Maintenance, and Refueling, Sections SM- 11, SM-12, and SM-13, and Material Delivery, Storage and Material Use Sections SM-2 and SM-3, and Spill Prevention and Control SM-10.

Appropriate Site-Specific BMP to be Implemented	BMP
	Requirements
Train employees on proper maintenance and spill practices and procedures and fueling and cleanup procedures.	
Store diesel fuel, oil, hydraulic fluid, or other petroleum products or other chemicals in water-tight containers and provide cover or secondary containment.	
Do not remove original product labels and comply with manufacturer's labels for proper disposal.	
<ul> <li>Dispose of containers only after all the product has been used.</li> </ul>	
<ul> <li>Dispose of or recycle oil or oily wastes according to Federal, State, and Local requirements.</li> </ul>	
Store soaps, detergents, or solvents under cover or other means to prevent contact with rainwater.	
See Vehicle and Equipment Cleaning,	
Maintenance, and Refueling, Sections SM-11, SM-	
12, and SM-13 and Material Use Section SM-3 for additional requirements.	
	<ul> <li>Train employees on proper maintenance and spill practices and procedures and fueling and cleanup procedures.</li> <li>Store diesel fuel, oil, hydraulic fluid, or other petroleum products or other chemicals in water-tight containers and provide cover or secondary containment.</li> <li>Do not remove original product labels and comply with manufacturer's labels for proper disposal.</li> <li>Dispose of containers only after all the product has been used.</li> <li>Dispose of or recycle oil or oily wastes according to Federal, State, and Local requirements.</li> <li>Store soaps, detergents, or solvents under cover or other means to prevent contact with rainwater.</li> <li>See Vehicle and Equipment Cleaning, Maintenance, and Refueling, Sections SM-11, SM-</li> </ul>

Pollutant	Appropriate Site-Specific BMP to be Implemented	BMP
Source		Requirements
Soil erosion from the disturbed areas	<ul> <li>Provide Soil Stabilization, Slope Protection, Storm Drain Inlet Protection SC-2, Perimeter Controls and Sediment Barriers, Sediment Basins and Detention Ponds, Check Dams SC-9, Level Spreader SC-10, Paving Operations SM-19, Construction Road Stabilization EC-1, Controlling Storm Water Flowing Onto and Through the Project, Post-Construction BMPs, and Non-Structural BMPs (Employee Training SM-1, Scheduling SM-14, Location of Potential Sources of Sediment SM-15, Preservation of Existing Vegetation SM-16).</li> <li>Delineate, and clearly mark off, with flags, tape, or other similar marking device all natural buffer areas defined in the SWPPP.</li> </ul>	Soil Stabilization 1. SM-21 Topsoil Manageme nt 2. EC-5 Seeding and Planting 3. EC-6 Mulching 4. EC-7 Geotextiles and Mats
	<ul> <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> </ul>	Slope Protection 1. EC-5 Seeding and Planting
	<ul> <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</li> </ul>	2. EC-6 Mulching 3. EC-7 Geotextiles and Mats 4. EC-9 Slope Roughenin
	<ul> <li>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</li> </ul>	g, Terracing, and Rounding 5. SC-11 Slope Drains and Subsurface
	<ul> <li>maintained in accordance with HAR 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</li> </ul>	Drains 6. SC-12 Top and Toe of Slope Diversion Ditches

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
	<ul> <li>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>	and Berms SC-2 Storm Drain Inlet Protection
		Perimeter Controls and Sediment Barriers 1. SC-1 Silt Fence 2. SC-5 Vegetated Filter Strips and Buffers 3. SC-8 Compost Filter Berm 4. SC-13 Sandbag Barrier 5. SC-14 Brush or Rock Filter Sediment Basins and Detention Ponds 1. SC-15 Sediment Trap 2. SC-16 Sediment Basin
		SC-9 Check Dams
		SC-10 Level Spreader

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
Jource		<del>-</del>
		SM-19 Paving Operations EC-1
		Construction Road
		Stabilization
		Controlling Storm Water Flowing onto and Through the Project 1. EC-8 Run- On Diversion 2. SC-6 Earth Dike 3. SC-7 Temporary Drains and Swales
		Post Construction BMPs
		1. EC-4 Flared Culvert End Sections 2. SC-3 Rip- Rap and Gabion Inflow Protection 3. SC-4 Outlet Protection and Velocity Dissipation Devices

Pollutant	Appropriate Site-Specific BMP to be Implemented	BMP
Source		Requirements
		4. SM-21 Topsoil Manageme nt
		Non-Structural BMPs
		<ol> <li>SM-1         Employee         Training</li> <li>SM-14         Scheduling</li> <li>SM-15         Location of         Potential         Sources of         Sediment</li> <li>SM-16         Preservatio         n of         Existing         Vegetation</li> </ol>

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
Sediment from soil stockpiles	<ul> <li>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.</li> <li>Place bagged materials on pallets and under cover.</li> <li>Provide physical diversion to protect stockpiles from concentrated runoff.</li> <li>Cover stockpiles with plastic or comparable material when practicable.</li> <li>Place silt fence, fiber filtration tubes, or straw wattles around stockpiles.</li> <li>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.</li> <li>Unless infeasible, contain and securely protect stockpiles from the wind.</li> <li>Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.</li> <li>See Protection of Stockpiles Section SM-4 for additional requirements.</li> </ul>	See Protection of Stockpiles Section SM-4. Protect Storm Drain Inlets SC-2, and Perimeter Sediment Controls where applicable.
Emulsified asphalt or prime/tack coat	<ul> <li>Provide training for employees and contractors on proper material delivery and storage practices and procedures.</li> <li>Restrict paving operations during wet weather to prevent paving materials from being discharged.</li> <li>Use asphalt emulsions such as prime coat when possible.</li> <li>Protect drain inlet structures and manholes during application of tack coat, seal coat, slurry seal, and fog seal.</li> <li>Keep ample supplies of drip pans and absorbent materials on site.</li> <li>Inspect inlet protection devices.</li> <li>See Material Delivery and Storage Section SM-2 and Paving Operations Section SM-19 for additional requirements.</li> <li>Provide Storm Drain Inlet Protection and/or</li> </ul>	See Material Delivery and Storage Section SM-2 and Material Use Section SM-3, Paving Operations Section SM- 19, Protect Storm Drain Inlets SC-2, and Perimeter Sediment Controls where

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
	Perimeter Sediment Controls as applicable.	applicable.
Materials associated with painting, such as paint and paint wash solvent	<ul> <li>Hazardous chemicals shall be well-labeled and stored in original containers.</li> <li>Keep ample supply of cleanup materials on site.</li> <li>Dispose container only after all of the product has been used.</li> <li>Remove as much paint from brushes on painted surface.</li> <li>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.</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>Do not dump liquid wastes into the storm drainage system.</li> <li>Filter and re-use solvents and thinners.</li> <li>Dispose of oil-based paints and residue as a hazardous waste.</li> <li>Ensure collection, removal, and disposal of hazardous waste complies with regulations.</li> <li>Immediately clean up spills and leaks.</li> <li>Properly store paints, solvents, and epoxy compounds.</li> <li>Properly store and dispose waste materials</li> </ul>	applicable.  See Material Delivery and Storage Section SM-2, Material Use Section SM-3, Hazardous Waste Management Section SM-9, Waste Management, Spill Prevention and Control Section SM- 10, and Structure Construction and Painting Section SM- 20, Protect Storm Drain Inlets SC-2, and Perimeter
	<ul> <li>generated from painting and structure repair and construction activities.</li> <li>Mix paints in a covered and contained area when possible to minimize adverse impacts from spills.</li> <li>Do not apply traffic paint or thermoplastic if rain is forecasted.</li> <li>See Material Delivery and Storage Section SM-2, Material Use SM-3, Waste Management, Hazardous</li> </ul>	Sediment Controls where applicable.
	Waste Management Section SM-9, Waste Management, Spill Prevention and Control Section SM-10, and Structure Construction and Painting Section SM-20 for additional requirements.	

Pollutant	Appropriate Site-Specific BMP to be Implemented	ВМР
Source		Requirements
	Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.	
Industrial chemicals, fertilizers, and/or pesticides	<ul> <li>Hazardous chemicals shall be well-labeled and stored in original containers.</li> <li>Keep ample supply of cleanup materials on site.</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 furtherance of an ongoing discharge.</li> <li>Dispose container only after all of the product has been used.</li> <li>Retain a complete set of material safety data sheets on site.</li> <li>Store industrial chemicals in water-tight containers and provide either cover or secondary containment.</li> <li>Provide cover when storing fertilizers or pesticides to prevent these chemicals from coming into contact with rainwater.</li> <li>Restrict amount of pesticide prepared to quantity necessary for the current application.</li> <li>Do not apply fertilizers or pesticides during or just before a rain event.</li> <li>Do not apply to stormwater conveyance channels with flowing water.</li> <li>Comply with fertilizer and pesticide manufacturer's recommended usage instructions.</li> <li>Follow federal, state, and local laws regarding fertilizer application.</li> <li>Do not dispose of toxic liquid wastes (solvents, used oils, and paints) or chemicals (additives, acids,</li> </ul>	See Material Delivery and Storage Section SM-2, Material Use Section SM-3, and Hazardous Waste Management Section SM-9, and Spill Prevention and Control SM-10
	<ul> <li>and curing compounds) 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</li> </ul>	
	shall be disposed of by a licensed hazardous waste hauler.  • See Material Delivery and Storage Section SM2,	

Pollutant	Appropriate Site-Specific BMP to be Implemented	ВМР
Source		Requirements
	Material Use SM-3, and Waste Management, Hazardous Waste Management Section SM-9 for additional requirements.	
Hazardous waste (Batteries, Solvents, Treated Lumber, etc.)	<ul> <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> <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 Waste Management Section SM-9 and Vehicle and Equipment Maintenance SM-12 for additional requirements.</li> </ul>	See Hazardous Waste Management Section SM-9 and Vehicle and Equipment Maintenance SM-12
Metals and	Inspect construction waste and recycling areas	See Solid

Pollutant	Appropriate Site-Specific BMP to be Implemented	BMP
Source		Requirements
Building Materials	<ul> <li>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>	Waste Management Section SM-6
Contaminated Soil	<ul> <li>See Waste Management, Contaminated Soil Management Section SM-8 and/or Hazardous 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 Waste Management Section SM-9
Dust Control Water	<ul> <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>See Dust Control Section SM-18 for additional requirements.</li> </ul>	See Dust Control Section SM-18
Concrete Truck Wash Water	<ul> <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</li> </ul>	See Waste Management, Concrete Waste Management

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
	away or as far as practicable from storm drain inlets, open drainage facilities, or water bodies.	Section SM-5
	Runoff from the on-site concrete wash area shall be contained in a temporary pit or level bermed area where the concrete can set.	
	Design the area so that no overflow can occur due to inadequate wash area sizing or precipitation.	
	The temporary pit shall be lined with plastic to prevent seepage of wash water into the ground.	
	Allow wash water to evaporate or collect wash water and all concrete debris in a concrete washout system bin.	
	Do not dump liquid wastes into storm drainage system.	
	Dispose of liquid and solid concrete wastes in compliance with federal, state, and local standards.	
	See Waste Management, Concrete Waste Management Section SM-5 for additional requirements.	

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
Sediment Track-Out	Include Stabilized Construction Entrance at all points that exit onto paved roads.	See Stabilized Construction Entrance Section EC-2
	A sediment trapping device is required if a wash rack is used in conjunction with the stabilized construction entrance/exit.	
	The pavement shall not be cleaned by washing down the street.	·
	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.	
	Use BMPs for adjacent drainage structures.	=
	Remove sediment tracked onto the street by the end of the day in which the track-out occurs.	
	Restrict vehicle use to properly designated exit points.	
	Include additional BMPs which remove sediment prior to exit when minimum dimensions can not be met.	
	See Stabilized Construction Entrance Section EC-2 for additional requirements.	
Irrigation	Consider irrigation requirements.	See Seeding and Planting Section EC-5
Water	Where possible, avoid species which require irrigation.	
	Design timing and application methods of irrigation water to eliminate the runoff of excess irrigation water into the storm water drainage system.	and California Stormwater BMP Handbook SD- 12 Efficient
	See Seeding and Planting Section EC-5 and     California Stormwater BMP Handbook SD-12     Efficient Irrigation at     http://www.stormwaterhawaii.com/resources/contract	Irrigation

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
	ors-and-consultants/storm-water-pollution- prevention-plan-swppp/ under Irrigation Water for additional requirements.	
Hydrotesting Effluent	• 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.	Site-Specific BMPs will be included in the NOI/NPDES Permit Form F submittal.
Dewatering Effluent	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-17 for additional requirements.	See Dewatering Operations SM-17. Site- Specific BMPs will be included in the NOI/NPDES Permit Form G submittal.
Saw-cutting Slurry	<ul> <li>Saw cut slurry shall be removed from the site by vacuuming.</li> <li>Provide storm drain protection during saw cutting. See Paving Operations Section SM-19 for additional requirements.</li> <li>Provide Storm Drain Inlet Protection and/or Perimeter Sediment Controls as applicable.</li> </ul>	See Paving Operations Section SM- 19, Storm Drain Inlet Protection SC-2, Perimeter sediment controls where applicable

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
Concrete Curing Water	<ul> <li>Avoid overspraying of curing compounds.</li> <li>Apply an amount of compound that covers the surface, but does not allow any runoff of the compound.</li> <li>See California Stormwater BMP Handbook NS-12 Concrete Curing at http://www.stormwaterhawaii.com/resources/contract ors-and-consultants/storm-water-pollution-prevention-plan-swppp/ under Concrete Curing for additional requirements.</li> </ul>	See California Stormwater BMP Handbook NS- 12 Concrete Curing
Plaster Waste Water	<ul> <li>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.</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>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.</li> <li>Plaster waste water shall not be allowed to flow into drainage structures or State waters.</li> <li>See Material Delivery and Storage Section SM-2, Material Use SM-3, and Hazardous Waste Management Section SM-9 for additional requirements.</li> </ul>	See Material Delivery and Storage Section SM-2, Material Use Section SM-3, and Hazardous Waste Management Section SM-9

Pollutant Source	Appropriate Site-Specific BMP to be Implemented	BMP Requirements
Water-Jet Wash Water	<ul> <li>For Water-Jet Wash Water used to clean vehicles, use off site wash racks or commercial washing facilities when practical.</li> <li>See Vehicle and Equipment Cleaning Section SM-11 for additional information.</li> </ul>	See Vehicle and Equipment Cleaning Section SM-11
	<ul> <li>For Water-Jet Wash Water used to clean impervious surfaces, the runoff shall not be allowed to flow into drainage structures or State Waters.</li> </ul>	
Sanitary/Septic Waste	<ul> <li>Locate Sanitary facilities in a convenient place away from drainage facilities.</li> <li>Position sanitary facilities so they are secure and will not be tipped over or knocked down.</li> <li>Wastewater shall not be discharged to the ground or buried.</li> <li>A licensed service provider shall maintain sanitary/septic facilities in good working order.</li> <li>Schedule regular waste collection by a licensed transporter.</li> <li>See Sanitary/Septic Waste Section SM-7 for additional requirements.</li> </ul>	See Sanitary/Septic Waste Section SM-7.

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**END OF SECTION 209**