Stormwater Pollution Prevention Plan (SWPPP)

For Construction Activities At:

Ho'olehua Veterans and Homestead Residents' Community Center

TMK: (2) 5-2-015:053

SWPPP Prepared For:

Department of Hawaiian home Lands
91-5420 Kapolei Parkway
Honolulu, HI 96707

SWPPP Prepared By:

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SWPPP Preparation Date:

3/5/2018

Estimated Project Dates:

Project Start Date: 11/1/2018

Project Completion Date: 7/10/2019

Contents

SECTION 1: CONTACT INFORMATION/RESPONSIBLE PARTIES

1.1 Operator(s) / Subcontractor(s)

Instructions (see definition of "operator" at CGP Part 1.1.a):

- Identify the operator(s) who will be engaged in construction activities at the site. Indicate respective responsibilities, where appropriate. Also include the 24-hour emergency contact.
- List subcontractors expected to work on-site. Notify subcontractors of stormwater requirements applicable to their work.
- Consider using Subcontractor Agreements such as the type included as a sample in Appendix G of the Template.

Operator(s):

Information to be provided via SWPPP Amendment, as required by HAR 11-55, Section 7.2.4, prior to the start of construction activities.

Subcontractor(s):

Additional Information to be provided via SWPPP Amendment, as required by HAR 11-55, Section 7.2.4, prior to the start of construction activities.

1.2 Stormwater Team

Instructions (see CGP Part 7.2.1):

- Identify the staff members (by name or position) that comprise the project's stormwater team as well as their individual responsibilities. At a minimum the stormwater team is comprised of individuals who are responsible for overseeing the development of the SWPPP, any later modifications to it, and for compliance with the requirements in this permit (i.e., installing and maintaining stormwater controls, conducting site inspections, and taking corrective actions where required).
- Each member of the stormwater team must have ready access to either an electronic or paper copy of applicable portions of the 2012 CGP and your SWPPP.

Project Owner

State of Hawaii
Department of Hawaiian Home Lands – Land Development Division
91-5420 Kapolei Parkway
Kapolei, Hawaii, 96707

Facility Manager and Stormwater BMP Manager

Additional Information to be provided via SWPPP Amendment, as required by HAR 11-55, Section 7.2.4, prior to the start of construction activities.

Civil Engineering Consultant

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SECTION 2: SITE EVALUATION, ASSESSMENT, AND PLANNING

2.1 Project/Site Information

Instructions (see "Project/Site Information" section of Appendix J – NOI form):

- In this section, you are asked to compile basic site information that will be helpful to you when you file your NOI.
- Detailed information on determining your site's latitude and longitude can be found at www.epa.gov/npdes/stormwater/latlong

Project Name and Address

Project/Site Name: **Ho'olehua Veterans and Homestead Residents' Community Center**
Project Street/Location: **2200 Farrington Avenue**
City: **Ho'olehua**
State: **Hawaii**
ZIP Code: **96792**
County or Similar Subdivision: **City and County of Honolulu**

Project Latitude/Longitude

(Use **one** of three possible formats, and specify method)

Latitude:	Longitude:
21.1648 ° N (decimal)	157.0507 ° W (decimal)

Method for determining latitude/longitude:
☐ USGS topographic map (specify scale: _____) ☐ EPA Web site ☐ GPS
☒ **Other (please specify): State of Hawaii, DOH, e-Permitting System for NOI Form C**

Horizontal Reference Datum:
☐ NAD 27 ☒ **NAD 83 or WGS 84** ☐ Unknown

If you used a U.S.G.S topographic map, what was the scale? _____

Additional Project Information

If you are conducting earth-disturbing activities in response to a public emergency, document the cause of the public emergency *(e.g., natural disaster, extreme flooding conditions)*, information substantiating its occurrence *(e.g., state disaster declaration)*, and a description of the construction necessary to reestablish effective public services:

Are you applying for permit coverage as a "federal operator" as defined in Appendix A of the 2012 CGP? ☐ Yes ☒ **No**

2.2 Discharge Information

Instructions (see "Discharge Information" section of Appendix J – NOI form):

- In this section, include information relating to your site's discharge. This information corresponds to the "Discharge Information" section of the NOI form. Because you may be using EPA's mapping tool to answer some of these questions, and the tool is accessed in the eNOI system, you may find it necessary to leave some questions unanswered until you have completed that portion of the NOI.
- For Table 1, list the name of the first surface water that receives discharges from your site. If your site has discharges to multiple surface waters, indicate the names of all such waters.
- For Table 2, if any of the surface waters you listed out in Table 1 are listed as impaired by the applicable State or Tribe, provide specified information about pollutants causing the impairment and whether or not a Total Maximum Daily Load (TMDL) has been completed for the surface water. For more information on TMDLs and impaired waters, including a list of TMDL contacts and links by state, visit www.epa.gov/npdes/stormwater/tmdl.
- For Table 3, indicate whether any of the surface waters you listed out in Table 1 are designated as Tier 2, 2.5, or 3 waters by your State or Tribe. See Appendix F for more information.

Does your project/site discharge stormwater into a Municipal Separate Storm Sewer System (MS4)? ☒ Yes ☐ **No**

Are there any surface waters that are located within 50 feet of your construction disturbances?
☐ Yes ☒ **No**

Table 1 – Names of Receiving Waters

Name(s) of the first surface water that receives stormwater directly from your site and/or from the MS4 (note: multiple rows provided where your site has more than one point of discharge that flows to different surface waters)
1. Unnamed Drainage Ditch
2. Maneopapa Gulch
3.
4.
5.
6.

Table 2 – Impaired Waters / TMDLs (Answer the following for each surface water listed in Table 1 above)

	Is this surface water listed as "impaired"?	If you answered yes, then answer the following:			
		What pollutant(s) are causing the impairment?	Has a TMDL been completed?	Title of the TMDL document	Pollutant(s) for which there is a TMDL
1.	☐ YES ☒ **NO**		☐ YES ☒ **NO**		
2.	☐ YES ☒ **NO**		☐ YES ☒ **NO**		
3.	☐ YES ☒ **NO**		☐ YES ☒ **NO**		

Describe the method(s) you used to determine whether or not your project/site discharges to an impaired water: Review of Topographic maps and drainage flow patterns. Review of impaired waters 303d list.

Table 3 – Tier 2, 2.5, or 3 Waters (Answer the following for each surface water listed in Table 1 above)

	Is this surface water designated as a Tier 2, Tier 2.5, or Tier 3 water? (see Appendix F)	If you answered yes, specify which Tier (2, 2.5, or 3) the surface water is designated as?
1.	☐ YES ☒ NO	No tier 2,2.5 or 3 waters located in HI
2.	☐ YES ☒ NO	No tier 2,2.5 or 3 waters located in HI

2.3 Nature of the Construction Activity

Instructions (see CGP Parts 1.3.c and 7.2.2):

- Provide a general description of the nature of the construction activities at your project.
- Describe the size of the property (in acres) and the total area expected to be disturbed by the construction activities (in acres), construction support activities covered by this permit (see Part 1.3.c of the permit), and the maximum area expected to be disturbed at any one time.

General Description of Project
Development on the property will include a new Veterans and Homestead Residents' Community Center. The development will include a new 7,000 sq. ft. building, asphalt concrete pavement driveway, and a 34-stall parking lot.

Size of Construction Project
What is the size of the property (in acres), the total area expected to be disturbed by the construction activities (in acres), and the maximum area expected to be disturbed at any one time?

Total Property Size: 5.6 acres

Total Area of Construction Disturbances: 1.1 acres

Maximum Disturbed Area at any one time: 1.1 acres

Construction Support Activities (only provide if applicable)
Describe any construction support activities for the project (e.g., concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas, borrow areas)

- Equipment Staging
- Material Storage
- Temporary Stockpiles
- Vehicle Wash-down
- Dust Control Activities

Additional Information to be provided via SWPPP Amendment, as required by HAR 11-55, Section 7.2.4, prior to the start of construction activities.

2.4 Sequence and Estimated Dates of Construction Activities

Instructions (see CGP Part 7.2.5):

- Describe the intended construction sequence and timing of major activities.
- For each phase of construction, include the following information:
  - ✓ Installation of stormwater controls, and when they will be made operational;
  - ✓ Commencement and duration of earth-disturbing activities, including clearing and grubbing, mass grading, site preparation (i.e., excavating, cutting and filling), final grading, and creation of soil and vegetation stockpiles requiring stabilization;
  - ✓ Cessation, temporarily or permanently, of construction activities on the site, or in designated portions of the site;
  - ✓ Final or temporary stabilization of areas of exposed soil. The dates for stabilization must reflect the applicable deadlines to which you are subject to in Part 2.2.1; and
  - ✓ Removal of temporary stormwater conveyances/channels and other stormwater control measures, removal of construction equipment and vehicles, and cessation of any pollutant-generating activities.
- The construction sequence must reflect the following requirements:
  - ✓ Part 2.1.1.1 (area of disturbance);
  - ✓ Part 2.1.1.3.a (installation of stormwater controls); and
  - ✓ Parts 2.2.1.1, 2.2.1.2, 2.2.1.3 (stabilization deadlines).
- Also, see EPA's *Construction Sequencing BMP Fact Sheet* at http://www.epa.gov/npdes/stormwater/menuofbmps/construction/cons_seq)

Construction will be done in one phase.

Installation of all stormwater controls will be installed before start of earth-disturbing activities.
Estimated Start Date: 11/1/2018

Commencement and duration of earth-disturbing activities, including clearing and grubbing, grading, and creation of soil and vegetation stockpiles requiring stabilization.
Estimated Start Date: 11/1/2018

Final or temporary stabilization of areas of exposed soil. The dates for stabilization must reflect the applicable deadlines to which you are subject to in Part 2.2.1.

- Temporary BMPs will be removed after exposed soil is stabilized. Estimated 7/10/2019

Removal of temporary stormwater conveyances/channels and other stormwater control measures, removal of construction equipment and vehicles, and cessation of any pollutant-generating activities.
Estimated 7/10/2019

Cessation, temporarily or permanently, of construction activities on the site, or in designated portions of the site.
Cessation of construction: N/A

2.5 Allowable Non-Stormwater Discharges

Instructions (see CGP Parts 1.3.d and 7.2.8):

- Identify all allowable sources of non-stormwater discharges. The allowable non-stormwater discharges identified in Part 1.3.d of the 2012 CGP include:
  - ✓ Discharges from emergency fire-fighting activities;
  - ✓ Fire hydrant flushings;
  - ✓ Landscape irrigation;
  - ✓ Waters used to wash vehicles and equipment, provided that there is no discharge of soaps, solvents, or detergents used for such purposes;
  - ✓ Water used to control dust;
  - ✓ Potable water including uncontaminated water line flushings;
  - ✓ Routine external building wash down that does not use detergents;
  - ✓ Pavement wash waters provided spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and detergents are not used. You are prohibited from directing pavement was waters directly into any surface water, storm drain inlet, or stormwater conveyance, unless the conveyance is connected to a sediment basin, sediment trap, or similarly effective control;
  - ✓ Uncontaminated air conditioning or compressor condensate;
  - ✓ Uncontaminated, non-turbid discharges of ground water or spring water;
  - ✓ Foundation or footing drains where flows are not contaminated with process materials such as solvents or contaminated ground water; and
  - ✓ Construction dewatering water that has been treated by an appropriate control.

List of Allowable Non-Stormwater Discharges Present at the Site

Type of Allowable Non-Stormwater Discharge	Likely to be Present at Your Site?
Discharges from emergency fire-fighting activities	☐ YES ☒ **NO**
Fire hydrant flushings	☒ **YES** ☐ NO
Landscape irrigation	☒ **YES** ☐ NO
Waters used to wash vehicles and equipment	☒ **YES** ☐ NO
Water used to control dust	☒ **YES** ☐ NO
Potable water including uncontaminated water line flushings	☒ **YES** ☐ NO
Routine external building wash down	☒ **YES** ☐ NO
Pavement wash waters	☒ **YES** ☐ NO
Uncontaminated air conditioning or compressor condensate	☐ YES ☒ **NO**
Uncontaminated, non-turbid discharges of ground water or spring water	☐ YES ☒ **NO**
Foundation or footing drains	☐ YES ☒ **NO**
Construction dewatering water	☐ YES ☒ **NO**

2.6 Site Maps

Instructions (see CGP Part 7.2.6):

- Attach site maps in Appendix A of the Template. For most projects, a series of site maps is necessary and recommended. The first should show the undeveloped site and its current features. An additional map or maps should be created to show the developed site or, for more complicated sites, show the major phases of development.

These maps must include the following features:

- Boundaries of the property and of the locations where construction will occur, including:
  - ✓ Locations where earth-disturbing activities will occur, noting any phasing of construction activities;
  - ✓ Approximate slopes before and after major grading activities. Note areas of steep slopes, as defined in Appendix A;
  - ✓ Locations where sediment, soil, or other construction materials will be stockpiled;
  - ✓ Locations of any crossings of surface waters;
  - ✓ Designated points on the site where vehicles will exit onto paved roads;
  - ✓ Locations of structures and other impervious surfaces upon completion of construction; and
  - ✓ Locations of construction support activity areas covered by this permit.
- Locations of all surface waters, including wetlands, that exists on or near your site. Indicate which waterbodies are listed as impaired, and which are identified by your state, tribe, or EPA as Tier 2, Tier 2.5, or Tier 3 waters.
- The boundary lines of any natural buffer areas. See CGP Part 2.1.2.1.a.
- Areas of federally-listed critical habitat for endangered or threatened species.
- Topography of the site, existing vegetative cover (e.g., forest, pasture, pavement, structures), and drainage pattern(s) of stormwater and allowable non-stormwater flow onto, over, and from the site property before and after major grading activities.
- Stormwater and allowable non-stormwater discharge locations, including:
  - ✓ Locations of any storm drain inlets on the site and in the immediate vicinity of the site; and
  - ✓ Locations where stormwater or allowable non-stormwater will be discharged to surface waters (including wetlands).
- Locations of all potential pollutant-generating activities.
- Locations of stormwater control measures.
- Locations where polymers, flocculants, or other treatment chemicals will be used and stored.

Refer to Appendix A for site maps

SECTION 3: DOCUMENTATION OF COMPLIANCE WITH OTHER FEDERAL REQUIREMENTS

3.1 Endangered Species Protection

Instructions (see CGP Parts 1.1.e, 7.2.14.1, Appendix D, and the "Endangered Species Protection" section of the Appendix J – NOI form):

Follow the process in Appendix D of the permit for determining which eligibility criterion (A-E) you have met with respect to the protection of endangered species. You will

- Include documentation supporting your determination of eligibility.
- Additional information on Endangered Species Act (ESA) provisions for EPA's Construction General Permit is at www.epa.gov/npdes/stormwater/esa

Eligibility Criterion

Under which criterion listed in Appendix D are you eligible for coverage under this permit?

☒ **A** ☐ B ☐ C ☐ D ☐ E

For reference purposes, the eligibility criteria listed in Appendix D are as follows:

Criterion A. No federally-listed threatened or endangered species or their designated critical habitat(s) are likely to occur in your site's "action area" as defined in Appendix A of this permit.

Criterion B. The construction site's discharges and discharge-related activities were already addressed in another operator's valid certification of eligibility for your action area under eligibility Criterion A, C, D, E, or F and there is no reason to believe that federally-listed species or federally-designated critical habitat not considered in the prior certification may be present or located in the "action area". To certify your eligibility under this Criterion, there must be no lapse of NPDES permit coverage in the other operator's certification. By certifying eligibility under this Criterion, you agree to comply with any effluent limitations or conditions upon which the other operator's certification was based. You must include in your NOI the tracking number from the other operator's notification of authorization under this permit. If your certification is based on another operator's certification under Criterion C, you must provide EPA with the relevant supporting information required of existing dischargers in Criterion C in your NOI form.

Criterion C. Federally-listed threatened or endangered species or their designated critical habitat(s) are likely to occur in or near your site's "action area," and your site's discharges and discharge-related activities are not likely to adversely affect listed threatened or endangered species or critical habitat. This determination may include consideration of any stormwater controls and/or management practices you will adopt to ensure that your discharges and discharge-related activities are not likely to adversely affect listed species and critical habitat. To make this certification, you must include the following in your NOI: 1) any federally listed species and/or designated habitat located in your "action area"; and 2) the distance between your site and the listed species or designated critical habitat (in miles). You must also include a copy of your site map with your NOI.

Criterion D. Coordination between you and the Services has been concluded. The coordination must have addressed the effects of your site's discharges and discharge-related activities on federally-listed threatened or endangered species and federally-designated critical habitat, and must have resulted in a written concurrence from the relevant Service(s) that your site's discharges and discharge-related activities are not likely to adversely affect listed species or critical habitat. You must include copies of the correspondence between yourself and the Services in your SWPPP and your NOI.

Criterion E. Consultation between a Federal Agency and the U.S. Fish and Wildlife Service and/or the National Marine Fisheries Service under section 7 of the ESA has been concluded. The consultation must have addressed the effects of the construction site's discharges and discharge-related activities on federally-listed threatened or endangered species and federally-designated critical habitat. The result of this consultation must be either:

i. a biological opinion that concludes that the action in question (taking into account the effects of your site's discharges and discharge-related activities) is not likely to jeopardize the continued existence of listed species, nor the destruction or adverse modification of critical habitat; or

ii. written concurrence from the applicable Service(s) with a finding that the site's discharges and discharge-related activities are not likely to adversely affect federally-listed species or federally-designated habitat.

You must include copies of the correspondence between yourself and the Services in your SWPPP and your NOI.

Criterion F. Your construction activities are authorized through the issuance of a permit under section 10 of the ESA, and this authorization addresses the effects of the site's discharges and discharge-related activities on federally-listed species and federally-designated critical habitat. You must include copies of the correspondence between yourself and the Services in your SWPPP and your NOI.

Supporting Documentation

Provide documentation for the applicable eligibility criterion you select in Appendix D, as follows:

For criterion A, indicate the basis for your determination that no federally-listed threatened or endangered species or their designated critical habitat(s) are likely to occur in your site's action area (as defined in Appendix A of the permit). Check the applicable source of information you relied upon:

☐ Specific communication with staff of the U.S. Fish & Wildlife Service or National Marine Fisheries Service.
☐ Publicly available species list.
☒ Other source: **U.S. Fish & Wildlife Critical Habitat Portal (Website: http://ecos.fws.gov/crithab/)**

3.2 Historic Preservation

Instructions (see CGP Part 1.1.f, 7.2.14.2, Appendix E, and the "Historic Preservation" section of the Appendix J – NOI form):

Follow the screening process in Appendix E of the permit for determining whether your installation of subsurface earth-disturbing stormwater controls will have an effect on historic properties.

- Include documentation supporting your determination of eligibility.
- To contact your applicable state or tribal historic preservation office, information is available at www.achp.gov/programs/html.

Appendix E, Step 1

Do you plan on installing any of the following stormwater controls at your site? Check all that apply below, and proceed to Appendix E, Step 2.

- ☐ Dike
- ☐ Berm
- ☐ Catch Basin
- ☐ Pond
- ☐ Stormwater Conveyance Channel (e.g., ditch, trench, perimeter drain, swale, etc.)
- ☐ Culvert
- ☐ Other type of ground-disturbing stormwater control:

None of the above will be installed.

(Note: If you will not be installing any ground-disturbing stormwater controls, no further documentation is required for Section 3.2 of the Template.)

Appendix E, Step 2

If you answered yes in Step 1, have prior surveys or evaluations conducted on the site already determined that historic properties do not exist, or that prior disturbances at the site have precluded the existence of historic properties? ☐ YES ☐ NO

- If yes, no further documentation is required for Section 3.2 of the Template.
- If no, proceed to Appendix E, Step 3.

Appendix E, Step 3

If you answered no in Step 2, have you determined that your installation of subsurface earth-disturbing stormwater controls will have no effect on historic properties? ☐ YES ☐ NO

If yes, provide documentation of the basis for your determination.

If no, proceed to Appendix E, Step 4.

Appendix E, Step 4

If you answered no in Step 3, did the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Office (THPO), or other tribal representative (whichever applies) respond to you within 15 calendar days to indicate whether the subsurface earth disturbances caused by the installation of stormwater controls affect historic properties? ☐ YES ☐ NO

If no, no further documentation is required for Section 3.2 of the Template.

If yes, describe the nature of their response:

☐ Written indication that adverse effects to historic properties from the installation of stormwater controls can be mitigated by agreed upon actions.

☐ No agreement has been reached regarding measures to mitigate effects to historic properties from the installation of stormwater controls.

3.3 Safe Drinking Water Act Underground Injection Control Requirements

Instructions (see CGP Part 7.2.14.3):

- If you will use any of the identified controls in this section, include documentation of contact between you and the applicable state agency or EPA Regional Office responsible for implementing the requirements for underground injection wells in the Safe Drinking Water Act and EPA's implementing regulations at 40 CFR Parts 144-147.
- For state UIC program contacts, refer to the following EPA website: *http://water.epa.gov/type/groundwater/uic/whereyoulive.cfm*.

Do you plan to install any of the following controls?

☐ Infiltration trenches (if stormwater is directed to any bored, drilled, driven shaft or dug hole that is deeper than its widest surface dimension, or has a subsurface fluid distribution system)

☐ Commercially manufactured pre-cast or pre-built proprietary subsurface detention vaults, chambers, or other devices designed to capture and infiltrate stormwater flow

☐ Drywells, seepage pits, or improved sinkholes (if stormwater is directed to any bored, drilled, driven shaft or dug hole that is deeper than its widest surface dimension, or has a subsurface fluid distribution system)

None of the above will be installed.

SECTION 4: EROSION AND SEDIMENT CONTROLS

General Instructions (See CGP Parts 2.1 and 7.2.10):

- Describe the erosion and sediment controls that will be installed and maintained at your site.
- For more information or ideas on BMPs, see EPA's National Menu of BMPs http://www.epa.gov/npdes/stormwater/menuofbmps

Prior to grading, stormwater will surface flow to silt fences before discharging into an existing concrete ditch located west of the property. After site grading is accomplished, stormwater will flow to permanent BMP facilities before discharging into drainage systems.

4.1 Natural Buffers or Equivalent Sediment Controls

Instructions (see CGP Parts 2.1.2.1 and 7.2.9, and Appendix G):

This section only applies to you if a surface water is located within 50 feet your construction activities. If this is the case, consult CGP Part 2.1.2.1 and Appendix G for information on how to comply with the buffer requirements.

- Describe the compliance alternative (CGP Part 2.1.2.1.a.i, ii, or iii) that was chosen to meet the buffer requirements, and include any required documentation supporting the alternative selected. The compliance alternative selected must be maintained throughout the duration of permit coverage. However, if you select a different compliance alternative during your period of permit coverage, you must modify your SWPPP to reflect this change.
- If you qualify for one of the exceptions in CGP Part 2.1.2.1.e, include documentation related to your qualification for such exceptions.

N/A

4.2 Perimeter Controls

Instructions (see CGP Parts 2.1.2.2 and 7.2.10):

- Describe sediment controls that will be used (e.g., silt fences, filter berms, temporary diversion dikes, or fiber rolls) to meet the Part 2.1.2.2 requirement to "install sediment controls along those perimeter areas of your site that will receive stormwater from earth-disturbing activities."
- For linear projects, where you have determined that the use of perimeter controls in portions of the site is impracticable, document why you believe this is to be the case.
- Also see, EPA's *Silt Fence BMP Fact Sheet* at www.epa.gov/npdes/stormwater/menuofbmps/construction/silt_fences or *Fiber Rolls BMP Fact Sheet* at www.epa.gov/npdes/stormwater/menuofbmps/construction/fiber_rolls

General

- Silt fences will be installed downstream of the construction limits for each phase.
- Contractor may amend the SWPPP to use approved equal perimeter controls.

Specific Perimeter Controls

Perimeter Control # 1

Perimeter Control Description

- 3' Silt Fence - anchored with #5 rebar spaced every 6'.

Installation

Estimated Date of Installation: 11/1/2018

Maintenance Requirements

- Per CGP 2.1.2.2.b inspection will be on a weekly basis and immediately after storm events of 0.25" or greater by visual inspection, if heavy rains are predicted and daily during periods of prolonged rain. Damaged or compromised portions of the silt fence will be repaired or replaced immediately. Build up of sediment shall be removed from the silt fence when it has reached one-third of the height of the fence. Should the fabric on a silt fence decompose, or become ineffective prior to the end of the expected usable life and the fence still be necessary, the fabric shall be replaced promptly.

4.3 Sediment Track-Out

Instructions (see CGP Parts 2.1.2.3 and 7.2.10):

- Describe stormwater controls that will be used to "minimize the track-out of sediment onto off-site streets, other paved areas, and sidewalks from vehicles exiting your construction site."
- Describe location(s) of vehicle exit(s), procedures to remove accumulated sediment off-site (e.g., vehicle tracking), and stabilization practices (e.g., stone pads or wash racks or both) to minimize off-site vehicle tracking of sediment. Also include the design, installation, and maintenance specifications for each control.
- Also, see EPA's *Construction Entrances BMP Fact Sheet* at www.epa.gov/npdes/stormwater/menuofbmps/construction/cons_entrance

General

- Stabilized construction entrance

Specific Track-Out Controls

Track-Out Control # 1

Track-Out Control Description

- Single point of egress and ingress to the site shall be protected with stabilized construction entrance
- 20'(min.)x50'(min.), 8" thick, 1" to 3" coarse aggregate or larger (7" max) gravel entrance with Amoco series 2000 geotextile fabric, or approved equal. Refer to erosion control details in the construction drawings.

Installation

- Estimated Date of Installation: 11/1/2018

Maintenance Requirements

- Per CGP 2.1.2.3.d., where sediment has been tracked-out from the site onto paved areas, removal of the deposited sediment will be required within 24 hours. Removal of the track-out will be by way of sweeping, shoveling, or vacuuming the surface, or by using other similarly effective means of sediment removal. Hosing or sweeping track-out sediment into any stormwater conveyance (unless it is connected to a sediment basin, sediment trap, or similarly effective control), storm drain inlet, or surface water will be strictly prohibited. Inspection and verification that the BMP is in place will take place prior to construction activities. Inspection of the entrance will be required on a weekly basis during the rainy season or bi-weekly during the non-rainy season, and after storm events. Any accumulated sediment within the gravel entrance will be removed and disposed of. Any voids present within the aggregate will be replaced.

4.4 Stockpiled Sediment or Soil

Instructions (see CGP Parts 2.1.2.4 and 7.2.10):

- Describe stormwater controls and other measures you will take to minimize the discharge of sediment or soil particles from stockpiled sediment or soil. Include a description of structural practices (e.g., diversions, berms, ditches, storage basins), including design, installation, and maintenance specifications, used to divert flows from stockpiled sediment or soil, retain or detain flows, or otherwise limit exposure and the discharge of pollutants from stockpiled sediment or soil.
- Also, describe any controls or procedures used to minimize exposure resulting from adding to or removing materials from the pile.

General

- Filter socks will be installed around the perimeter of stocked sediment or soil.
- Contractor may amend the SWPPP to use approved equal stockpile sediment or soil controls.

Specific Stockpile Controls

Stockpile Control # 1

Stockpiled Sediment/Soil Control Description

3' Silt Fence - anchored with #5 rebar spaced every 6'

Installation

- Estimated Date of installation: 11/1/2018

Maintenance Requirements

- The contractor shall be responsible for inspecting and maintaining any temporary stockpile on site, and shall protect the stockpile from wind and rain erosion, utilizing stabilization methods described above. Inspections will be on a weekly basis, immediately after storm events, if heavy rains are predicted, and daily during periods of prolonged rain. Sediment will be removed before it has reached a third of the height of the filter sock. Damaged or compromised filter socks will be repaired or replaced immediately.

4.5 Minimize Dust

Instructions (see CGP Parts 2.1.2.5 and 7.2.10):

Describe controls and procedures you will use at your project/site to minimize the generation of dust.

General

- Wind erosion consists of dust particulate matter that should be controlled during grading and excavation activities.
- The site will be protected by BMPs, similar to those used to control runoff and water erosion from the site, to control dust and reduce wind erosion.

Specific Dust Controls

Dust Control # 1

- *Watering will prevent dust generation, but only for a short duration, generally less than a few hours.*

Installation

- Applied daily or as needed.

Maintenance Requirements

- *Rate of application will be monitored such that all water will be retained onsite and allowed to percolate into the ground or evaporate.*

4.6 Minimize the Disturbance of Steep Slopes

Instructions (see CGP Parts 2.1.2.6 and 7.2.10):

- Describe how you will minimize the disturbance to steep slopes (as defined by CGP Appendix A).
- Describe controls (e.g., erosion control blankets, tackifiers), including design, installation and maintenance specifications, that will be implemented to minimize sediment discharges from slope disturbances.
- Also, see EPA's *Geotextiles BMP Fact Sheet* at www.epa.gov/npdes/stormwater/menuofbmps/construction/geotextiles

General

- Minimize soil compaction in areas where final vegetative stabilization will occur.
- Restrict vehicle/equipment use along steep slopes.
- Contractor may amend the SWPPP to use approved equal stockpile sediment or soil controls.

Specific Disturbance of Steep Slopes Control

Disturbance of Steep Slopes Control # 1

Hydroseeding – Provide hydroseeding to match existing conditions of property.

Installation

- Estimated Date of installation: 11/1/2018

Maintenance Requirements

- The contractor shall be responsible for inspecting and monitoring vegetation growth and water, fertilize, mow, and/or prune the grasses/plants as needed.

4.7 Topsoil

Instructions (see CGP Parts 2.1.2.7 and 7.2.10):

- Describe how topsoil will be preserved and identify these areas and associated control measures on your site map(s).
- If it is infeasible for you to preserve topsoil on your site, provide an explanation for why this is the case.

N/A

4.8 Soil Compaction

Instructions (see CGP Parts 2.1.2.8 and 7.2.10):

- In areas where final vegetative stabilization will occur or where infiltration practices will be installed, describe the controls, including design, installation, and maintenance specifications that will be used to restrict vehicle or equipment access or condition the soil for seeding or planting.

General

- Soil compaction will be limited to areas requiring heavy truck traffic for construction operations. Vehicles will be limited to stabilized construction roadways and not allowed to drive over undisturbed native soils.

Specific Soil Compaction Controls

Soil Compaction Control # 1

Soil Compaction Control Description

- Minimize the surface area allowed for vehicular traffic. Limit the amount and activity of vehicles on site

4.9 Storm Drain Inlets

Instructions (see CGP Parts 2.1.2.9 and 7.2.10):

- Describe controls (e.g., inserts, rock-filled bags, or block and gravel) including design, installation, and maintenance specifications that will be implemented to protect all inlets that will receive stormwater from your construction activities, and that you have authority to access.
- Also, see EPA's *Storm Drain Inlet Protection BMP Fact Sheet* at www.epa.gov/npdes/stormwater/menuofbmps/construction/storm_drain

General

- Compost filter socks and geotextile filter fabric will be installed around each existing drain inlet which prevents sediment from entering inlet structures.

Specific Storm Drain Inlet Controls

Storm Drain Inlet Control # 1

Storm Drain Inlet Control Description

- Geotextile filter fabric – installed at curb inlet basins.

Installation

- Estimated Installation date: 11/1/2018

Maintenance Requirements

- Inspections will be on a weekly basis, immediately after storm events, if heavy rains are predicted, and daily during periods of prolonged rain. Cleaning, or removal and replacement, of the protection measures will be required as sediment accumulates, the filter becomes clogged, and/or performance is compromised. Where there is evidence of sediment accumulation adjacent to the inlet protection, the contractor shall remove the deposited sediment within 24 hours.

4.10 Constructed Stormwater Conveyance Channels

Instructions (see CGP Parts 2.1.3.1 and 7.2.10):

If you will be installing a stormwater conveyance channel, describe control practices (e.g., velocity dissipation devices), including design specifications and details (volume, dimensions, outlet structure), that will be implemented at the construction site.

N/A

4.11 Sediment Basins

Instructions (see CGP Parts 2.1.3.2 and 7.2.10):

If you will install a sediment basin, include design specifications and other details (volume, dimensions, outlet structure) that will be implemented at in conformance with CGP Part 2.1.3.2.

- At a minimum, sediment ponds must provide storage for either (1) the calculated volume of runoff from the 2-year, 24-hour storm (see CGP App. H), or (2) 3,600 cubic feet per acre drained
- Sediment ponds must also utilize outlet structures that withdraw water from the surface, , unless infeasible
- Also, see EPA's *Sediment Basin BMP Fact Sheet* at www.epa.gov/npdes/stormwater/menuofbmps/construction/sediment_basins

N/A

4.12 Chemical Treatment

Instructions (see CGP Parts 2.1.3.3 and 7.2.10.2):

If you are using treatment chemicals at your site, provide details for each of the items below. This information is required as part of the SWPPP requirements in CGP Part 7.2.10.2.

N/A

4.13 Dewatering Practices

Instructions (see CGP Parts 2.1.3.4 and 7.2.10):

If you will be discharging stormwater that is removed from excavations, trenches, foundations, vaults, or other similar points of accumulation, include design specifications and details of all dewatering practices that are installed and maintained to comply with CGP Part 2.1.3.4.

N/A

4.14 Other Stormwater Controls

Instructions:

- Describe any other stormwater controls that do not fit into the above categories.

No other controls used.

4.15 Site Stabilization

Instructions (see CGP Parts 2.2 and 7.2.10):

The CGP requires you to immediately initiate stabilization when work in an area of your site has permanently or temporarily stopped, and to complete certain stabilization activities within prescribed deadlines. See CGP Part 2.2.1. The CGP also requires that stabilization measures meet certain minimum criteria. See CGP Part 2.2.2. For your SWPPP, you must include the following:

- Describe the specific vegetative and/or non-vegetative practices that will be used to stabilize exposed soils where construction activities have temporarily or permanently ceased. Avoid using impervious surfaces for stabilization whenever possible.
- Also, see EPA's *Seeding BMP Fact Sheet* at www.epa.gov/npdes/stormwater/menuofbmps/construction/seeding
- Once you begin construction, consider using the Grading/Stabilization Activities log in Appendix H of the Template to document your compliance with the stabilization requirements in CGP Part 2.2

Site Stabilization Practice (only use this if you are not located in an arid, semi-arid, or drought-stricken area)
☒ *Vegetative* ☐ *Non-Vegetative*
☐ *Temporary* ☒ *Permanent*

Description of Practice

- Exposed areas will be seeded or planted with vegetation when earth-disturbing activities have permanently ceased on any portion of the site.
- Filter rolls (perimeter controls) will be in place until vegetation sets in.
- Other areas will be paved with asphalt concrete.

Installation

- Installation date: Once final grades are established.

Maintenance Requirements

- Shrubs and trees must be adequately watered and fertilized, and if needed, pruned.
- Grasses may need to be watered and mowed.

Site Stabilization Practice (only use this if you are located in an arid, semi-arid, or drought-stricken area)
☐ *Vegetative* ☒ *Non-Vegetative*
☒ *Temporary* ☐ *Permanent*

Description of Practice

- Exposed areas will be mulched when earth-disturbing activities have temporarily ceased on any portion of the site.
- Types of mulch, binders, and application rates will be recommended by the contractor.

Installation

- Installation date: Implemented when needed.

Maintenance Requirements

- Must be inspected weekly and after rain for damage or deterioration.

SECTION 5: POLLUTION PREVENTION STANDARDS

5.1 Potential Sources of Pollution

Instructions (see CGP Part 7.2.7):

- Identify and describe all pollutant-generating activities at your site (e.g., paving operations; concrete, paint, and stucco washout and waste disposal; solid waste storage and disposal).
- For each pollutant-generating activity, include an inventory of pollutants or pollutant constituents associated with that activity (e.g., sediment, fertilizers, and/or pesticides, paints, solvents, fuels), which could be exposed to rainfall or snowmelt, and could be discharged from your construction site. You must take into account where potential spills and leaks could occur that contribute pollutants to stormwater discharges.

Construction Site Pollutants

Pollutant-Generating Activity	**Pollutants or Pollutant Constituents** (that could be discharged if exposed to stormwater)	**Location on Site** (or reference SWPPP site map where this is shown)
Demolition/Clearing & Grubing	Construction debris, green waste, general litter, and construction/domestic waste	
Operations and Maintenance of Equipment	Fuels, oils, other pollutants used in the vehicle and equipment operation and maintenance	
Stabilization	Pesticides, herbicides, insecticides, fertilizers, and landscape materials	
Grading	Sediment, dust	
Activities associated with painting	Paint, paint wash solvent	
Waterline flushing	Chemical treatments	

Information to be provided via SWPPP Amendment, as required by HAR 11-55, Section 7.2.4, prior to the start of construction activities.

5.2 Spill Prevention and Response

Instructions (see CGP Parts 2.3 and 7.2.11):

- Describe procedures you will use to prevent and respond to leaks, spills, and other releases. You must implement the following at a minimum:
  - ✓ Procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases. Identify the name or title of the employee(s) responsible for detection and response of spills or leaks; and
  - ✓ Procedures for notification of appropriate facility personnel, emergency response agencies, and regulatory agencies where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity consistent with Part 2.3.3.4c and established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302, occurs during a 24-hour period. Contact information must be in locations that are readily accessible and available.
- Some projects/site may be required to develop a Spill Prevention Control and Countermeasure (SPCC) plan under a separate regulatory program (40 CFR 112). If you are required to develop an SPCC plan, or you already have one, you should include references to the relevant requirements from your plan.

General

- **Spill control may be utilized on the following materials:**
  - Soil stabilizers
  - Dust stabilizers
  - Herbicides
  - Fertilizers
  - Fuels
  - Lubricants
  - Petroleum distillates
- **Spill Prevention Measures**
  - Educate and be aware of pollutant sources and pollutant characteristics. Ensure employees know what a "significant" spill is for materials they use.
  - Educate on the potential dangers to humans and environment from spills and leaks.
  - Hold regular meetings to discuss appropriate disposal procedures.
  - Establish continuing education as needed.
  - Have a superintendent or representative oversee and enforce proper spill prevention measures.
  - Store hazardous materials in covered containers and protect from vandalism.

- **Spill Control Measures consist of:**
  - Contain and clean up any spill immediately.
  - Properly remove and dispose of any hazardous materials or contaminated soil in significant residual materials remain on the ground after construction is complete.
  - If spills or leaks of materials occur that are not contained and could discharge to surface waters, sampling of site discharge may be required.
  - Do not allow water used for cleaning and decontamination to enter watercourse.
  - Clean up as much of the material as possible and dispose of properly.
  - Notify the local emergency response if the spill is significant. Notify proper county officials.
  - Report significant spills to the fire department.

5.3 Fueling and Maintenance of Equipment or Vehicles

Instructions (see CGP Parts 2.3.3.1 and 7.2.11):

- Describe equipment/vehicle fueling and maintenance practices that will be implemented to eliminate the discharge of spilled or leaked chemicals (e.g., providing secondary containment *(examples: spill berms, decks, spill containment pallets)* and cover where appropriate, and/or having spill kits readily available.
- Also, see EPA's *Vehicle Maintenance and Washing Areas BMP Fact Sheet* at www.epa.gov/npdes/stormwater/menuofbmps/construction/vehicile_maintain

General

- No fuel will be stored on-site. The Contractor shall prohibit discharging: fuels, oils and other pollutants used in the vehicle and equipment operation and maintenance.
- Effective means of eliminating discharge of spilled or leaked chemicals:
  - Checking all vehicles at the beginning of each work day for leaks
  - Vehicle inspections and fueling shall be in the designated fueling areas
  - Ensuring adequate supplies are available at all times to handle spills, leaks, and disposal of used liquids
  - Using drip pans and absorbents under or around leaky vehicles and equipment
  - Installing compost filter socks around vehicle staging area
  - Disposing of or recycling oil and oily wastes in accordance with other federal, state, and local requirements
  - Cleaning up spills or contaminated surfaces immediately, using dry clean up measures where possible
  - Storing chemicals in water-tight containers
  - Eliminating the source of the spill to prevent a discharge or a furtherance of an ongoing discharge
  - No cleaning of surfaces by hosing down the area

5.4 Washing of Equipment and Vehicles

Instructions (see CGP Parts 2.3.3.2 and 7.2.11):

- Describe equipment/vehicle washing practices that will be used to minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other types of washing (e.g., locating activities away from surface waters and stormwater inlets or conveyances and directing wash waters to a sediment basin or sediment trap, using filtration devices, such as filter bags or sand filters, or using other similarly effective controls).
- Describe how you will prevent the discharge of soaps, detergents, or solvents by providing either (1) cover (*examples: plastic sheeting or temporary roofs*) to prevent these detergents from coming into contact with rainwater, or (2) a similarly effective means designed to prevent the discharge of pollutants from these areas.
- Also, see EPA's *Vehicle Maintenance and Washing Areas BMP Fact Sheet* at www.epa.gov/npdes/stormwater/menuofbmps/construction/vehicile_maintain

General

- No soap, detergent, or solvents will be used to wash vehicles and equipment
- Sediment and wash water trap shall be maintained in order to not permit any discharge or percolation into the ground
- Trap will be inspected daily for wash water/potential petroleum and will be removed and disposed of if not evaporated
- Steam cleaning will not be permitted on site

5.5 Storage, Handling, and Disposal of Construction Products, Materials, and Wastes

Instructions (see CGP Parts 2.3.3.3 and 7.2.11):

- For any of the types of construction products, materials, and wastes below in Sections 5.5.1-5.5.6 below that are expected to be used or stored at your site, provide the information on how you will comply with the corresponding CGP provision and the specific practices that will be employed.
- Also, see EPA's *General Construction Site Waste Management BMP Fact Sheet* at www.epa.gov/npdes/stormwater/menuofbmps/construction/cons_wasteman

General

- Hazardous materials storage onsite will be minimized.
- Hazardous materials should be handled as infrequently as possible.
- Ample spill cleanup supplies appropriate for the materials being stored will be provided.
- Employees to be trained in emergency spill cleanup procedures.

5.5.1 Building Products

(Note: Examples include asphalt sealants, copper flashing, roofing materials, adhesives, concrete admixtures.)

General

- Manufacturer's recommendations for use will be followed, including the use of protective equipment, ventilation, flammability, mixing, etc.
- Either plastic sheeting or a temporary roof will be used to prevent chemicals and materials from coming into contact with rainwater.
- To prevent materials from discharging due to storm water runoff, all containers will be tightly sealed and stored in the contractor's staging area when not required for use.
- All wash water and solvents will be dried with absorbent Oil-Dri and then disposed of in a landfill when completely dry

5.5.2 Pesticides, Herbicides, Insecticides, Fertilizers, and Landscape M15aterials

General

- Either plastic sheeting or a temporary roof will be used to prevent chemicals and materials from coming into contact with rainwater.
- All application and disposal requirements included on the registered pesticide, herbicide, insecticide, and fertilizer label will be complied with.
- To prevent materials associated with painting from discharging due to storm water runoff, all containers will be tightly sealed and stored in the contractor's staging area when not required for use

5.5.3 Diesel Fuel, Oil, Hydraulic Fluids, Other Petroleum Products, and Other Chemicals

General

- On-site storage of fuel will be prohibited.
- Discharging of fuels, oils, and other pollutants used in vehicle and equipment operation and maintenance will be prohibited.
- All vehicles and equipment will be checked at the beginning of each work day for leaks.
- Vehicle inspections and fueling shall be in the designated fueling areas.
- An effective means of eliminating the discharge of spilled or leaked chemicals, including fuel, from the area where operation and maintenance activities will take place by:
    - Ensuring adequate supplies are available at all times to handle spills, leaks, and disposal of used liquids
    - Using drip pans and absorbents under or around leaky vehicles and equipment
    - Installing compost filter socks around vehicle staging area
    - Disposing of or recycling oil and oily wastes in accordance with other federal, state, and local requirements
    - Cleaning up spills or contaminated surfaces immediately, using dry clean up measures where possible and disposing of used materials properly
    - Storing chemicals in water-tight containers
    - Eliminating the source of the spill to prevent a discharge or a furtherance of an ongoing discharge
    - No cleaning of surfaces by hosing down the area

5.5.4 Hazardous or Toxic Waste

(Note: Examples include paints, solvents, petroleum-based products, wood preservatives, additives, curing compounds, acids.)

General

- Wastes shall be stored in sealed containers, labeled, and transported according to appropriate Federal Regulations.
- Over application of toxic or hazardous materials will be prohibited.
- Material Safety Data Sheets (MSDS) will be supplied for all materials.
- Disposal of hazardous or toxic wastes shall be in accordance with the manufacturer's recommended method of disposal and in compliance with federal, state and local requirements
- Spills shall be cleaned immediately using dry clean-up methods where possible, and used materials shall be disposed of properly.
- Elimination of the source of the spill shall be the primary priority to prevent a discharge or a furtherance of an ongoing discharge.

5.5.5 Construction and Domestic Waste

(Note: Examples include packaging materials, scrap construction materials, masonry products, timber, pipe and electrical cuttings, plastics, styrofoam, concrete, and other trash or building materials.)

General

- All waste containers of sufficient size and number will be provided to contain all construction and domestic wastes and will be properly stored in designated areas on the project site.
- Waste containers shall be watertight, and lid-equipped.
- Waste collection will occur on a daily basis and during rainy and/or windy conditions.
- All wastes generated at the site shall be removed immediately off-site to listed locations. These wastes include, but are not limited to, clearing and grubbing debris, sediment removed from the site, and other construction and domestic waste

5.5.6 Sanitary Waste

General

- Portable toilets will be positioned so that they are secured and will not be tipped or knocked over.
- Portable toilets will be maintained and sanitary waste will be disposed of on a weekly basis.
- Disposal will be done by an approved DOH pumper at DOH approved disposal sites.

5.6 Washing of Applicators and Containers used for Paint, Concrete or Other Materials

Instructions (see CGP Parts 2.3.3.4 and 7.2.11):

- Describe how you will comply with the CGP Part 2.3.3.4 requirement to "provide an effective means of eliminating the discharge of water from the washout and cleanout of stucco, paint, concrete, form release oils, curing compounds, and other construction materials."
- Also, see EPA's *Concrete Washout BMP Fact Sheet* at www.epa.gov/npdes/stormwater/menuofbmps/construction/concrete_wash

General

- Do not wash out concrete trucks, excess concrete, slurry, PCC, and AC waste into storm drains, open ditches, streams, or onto the ground. Trucks and applicators, hoses, etc., should be washed out into designated facilities.
- Do not allow excess concrete to be dumped on-site except in designated areas.
- Do not rinse or clean paint brushes, containers, etc., into the street, gutter, storm drain, or watercourse. Dispose of paint thinners that cannot be recycled as hazardous waste.
- Rinse brushes for water-based paint, and drain to sanitary sewer.
- Rinse and clean brushes for oil-based paint with thinners and solvents.

5.7 Fertilizers

Instructions (CGP Parts 2.3.5 and 7.2.11):

Describe how you will comply with the CGP Part 2.3.5 requirement to "minimize discharges of fertilizers containing nitrogen or phosphorus"

General

- All application and disposal requirements included on the registered pesticide, herbicide, insecticide, and fertilizer label will be closely monitored and complied with.
- Either plastic sheeting or a temporary roof will be used to prevent rainwater from contacting chemicals and materials.
- Pesticides, insecticides, fertilizers, and landscape materials will be used after final grades have been established.
- Application of chemicals will be forbidden in stormwater conveyance channels and will follow all federal, state, and local requirements.

5.8 Other Pollution Prevention Practices

Instructions:

Describe any additional pollution prevention practices that do not fit into the above categories.

N/A

SECTION 6: INSPECTION AND CORRECTIVE ACTION

6.1 Inspection Personnel and Procedures

Instructions (see CGP Parts 2.1.1.4, 2.3.2, 3.3.2, 4, 5, and 7.2.12):

Describe the procedures you will follow for conducting inspections in accordance with CGP Parts 2.1.1.4, 2.3.2, 3.3.2, 4, 5, and 7.2.12.

Personnel Responsible for Inspections

Information to be provided via SWPPP Amendment, as required by HAR 11-55, Section 7.2.4, prior to the start of construction activities.

Note: All personnel conducting inspections must be considered a "qualified person." CGP Part 4.1.1 clarifies that a "qualified person" is a person knowledgeable in the principles and practices of erosion and sediment controls and pollution prevention, who possesses the skills to assess conditions at the construction site that could impact stormwater quality, and the skills to assess the effectiveness of any stormwater controls selected and installed to meet the requirements of this permit.

Inspection Schedule

Specific Inspection Frequency

BMP	Inspection Schedules and Procedures
Construction Entrance/Exit	The inspection will be on a weekly basis, immediately after storm events of 0.25" or greater by visual inspection, if heavy rains are predicted, and daily during periods of prolonged rain. Maintenance and/or repair will occur immediately if the inspection indicates that the crushed rock has been damaged (clogged) or compromised. Sediment will be removed before it has reached a third of the height of the sandbags. Storm water will be allowed to evaporate but sediment trap will be emptied of sediment and water build up when the trap reaches half full. Damaged liner will be repaired and disposed of in the PVT Landfill. Sediment and wash water trap shall be maintained in order to not permit any discharge or percolation into the ground; it will be monitored daily for wash water/potential petroleum within the trap. If wash water does not evaporate it must be removed and disposed.
Silt Fence	Inspection will be on a weekly basis and immediately after storm events of 0.25" or greater by visual inspection, if heavy rains are predicted and daily during periods of prolonged rain. Damaged or compromised portions of the silt fence will be repaired or replaced immediately. Build up of sediment shall be removed from the silt fence when it has reached one-third of the height of the fence. Should the fabric on a silt fence decompose, or become ineffective prior to the end of the expected usable life and the fence still be necessary, the fabric shall be replaced promptly.
Staging and Storage Areas	The inspection will be on a weekly basis and immediately after storm events of 0.25" or greater by visual inspection, if heavy rains are predicted, and daily during periods of prolonged rain. Inspection shall include general housekeeping of the area to make sure items are in the correct location, secure, covered, and contained as required.

Temporary Inlet & Catch Basin Protection	The inspection will be on a weekly basis and immediately after storm events of 0.25" or greater by visual inspection, if heavy rains are predicted, and daily during periods of prolonged rain. Clean, or remove and replace, the protection measure as sediment accumulates, the filter becomes clogged, and/or performance is compromised. Where there is evidence of sediment accumulation adjacent to the inlet protection measure, the contractor shall remove the deposited sediment by the end of the same work day in which it is found or by the end of the following day if removal by the same work day is not feasible.

The contractor shall conduct timely inspections of the receiving waters, storm water runoff and control measure and best management practices to detect violations and conditions which may cause violations of the Basic Water Quality Criteria as specified in HAR section 11-54-4: The contractor shall visually inspect storm water discharges and receiving state waters (if accessible) for potential pollutants, including, but not limited to the following:

- Turbidity
- Color
- Floating oil and crease
- Floating debris and scum
- Materials that will settle
- Substances that will produce taste in the water or detectable off flavor in fish
- Inspect for items that may be toxic or harmful to human or other life.

The contractor should inspect the drainage system at the further down gradient point on the storm drainage system. The contractor may inspect the discharge where it enters a drainage system rather than at the receiving water (excluding an upset even, BMP failure, or rainfall events greater than 0.25"). If it is infesible to inspect the discharge at the receiving water for rain events greater than 0.25", the inspection of discharge may be done at the point it enters the MS4. For upset or BMP failure, contractor will document why it is infeasible in the SWPPP/inspection report.

The contractor shall immediately stop, reduce, or modify construction, or implement new or revised BMPs as needed to stop or prevent a violation of the Basic Water Quality Criteria as specified in HAR Section 11-54-4. Corrective actions are taken to repair, modify, or replace any storm water control used at the site; clean up and properly dispose of spills, releases; or other deposits; or remedy a permit violation.

The contractor shall complete the following corrective actions in accordance with the deadlines specified in this section, regardless of circumstances: the contractor shall immediately take all reasonable steps to minimize or prevent the discharge of pollutants until a permanent solution is installed and made operational, including cleaning up any contaminated surfaces so that the material will not discharge in subsequent storm events.

At minimum, the contractor shall conduct a site inspection in accordance with the schedules listed below:

- At least once every 7 calendar days; and

- Immediately after a storm even of 0.25" or greater. For any day of rainfall during normal business hours that measure 0.25" or greater, the contractor shall record the total rainfall measured for that day.

Reductions in Inspection Frequency (if applicable)

- For the reduction in inspections resulting from stabilization:
  (Note: It is likely that you will not be able to include this in your initial SWPPP. If you qualify for this reduction (see CGP Part 4.1.4.1), you will need to modify your SWPPP to include this information.)

- For the reduction in inspections in arid, semi-arid, or drought-stricken areas:

Inspection Report Forms

Refer to Appendix D for sample Inspection Report Forms.

6.2 *Corrective Action*

Instructions (CGP Parts 5 and 7.2.12):

– Describe the procedures for taking corrective action in compliance with CGP Part 5.

All BMPs shall be inspected, repaired and/or re-installed as needed. If repair is necessary, it shall be initiated immediately after the inspection. Work to be corrected immediately (does not require significant repair or replacement) shall be completed by the close of the next work day. When installation of a new pollution prevention control or significant repair is needed, the work or repair shall be complete no later than 7 calendar days from the time of discovery. If it is infeasible to install or repair a pollution prevention control within 7 days, the contractor shall document in the records why it is infeasible to complete. To facilitate repair or replacement, the contractor will be required to store surplus material on the project site if the site is located where replacement materials will not be readily available.

For each corrective action taken, the contractor shall complete a corrective action report detailing the following:

Within 24 hours of triggering corrective action:

- Identification of the condition at the project site
- The nature of the condition identified
- The date and time of the identification and how it was identified.

Within 7 calendar days triggering corrective action:

- Any follow-up actions taken to review the design, installation, and maintenance of stormwater controls, including the dates such actions occurred
- Summary of stormwater control modifications, including a schedule of activities necessary to implement changes, and the date the modifications are completed or expected to be completed
- Notice of whether SWPPP modifications are required as a result of the condition identified or corrective action

Personnel Responsible for Corrective Actions

Information to be provided via SWPPP Amendment, as required by HAR 11-55, Section 7.2.4, prior to the start of construction activities.

Corrective Action Forms

Refer to Appendix E for sample Corrective Action Forms.

6.3 Delegation of Authority

Instructions:

- Identify the individual(s) or positions within the company who have been delegated authority to sign inspection reports.
- Attach a copy of the signed delegation of authority (see example in Appendix J of the Template.
- For more on this topic, see Appendix I, Subsection 11 of EPA's CGP.

Information to be provided via SWPPP Amendment, as required by HAR 11-55, Section 7.2.4, prior to the start of construction activities.

Duly Authorized Representative(s) or Position(s):

Insert Company or Organization Name:
Insert Name:
Insert Position:
Insert Address:
Insert City, State, Zip Code:
Insert Telephone Number:
Insert Fax/Email:

SECTION 7: TRAINING

Instructions (see CGP Part 6 and 7.2.13):

- Complete the table below to provide documentation that the personnel required to be trained in CGP Part 6 completed the appropriate training
- If personnel will be taking course training (which is not required as part of the CGP), consider using Appendix I to track completion of this training
- The following personnel, at a minimum, must be receive training, and therefore should be listed out individually in the table below:
  - ✓ Personnel who are responsible for the design, installation, maintenance, and/or repair of stormwater controls (including pollution prevention measures);
  - ✓ Personnel responsible for the application and storage of treatment chemicals (if applicable);
  - ✓ Personnel who are responsible for conducting inspections as required in Part 4.1.1; and
  - ✓ Personnel who are responsible for taking corrective actions as required in Part 5.
- CGP Part 6 requires that the required personnel must be trained to understand the following if related to the scope of their job duties:
  - ✓ The location of all stormwater controls on the site required by this permit, and how they are to be maintained;
  - ✓ The proper procedures to follow with respect to the permit's pollution prevention requirements; and
  - ✓ When and how to conduct inspections, record applicable findings, and take corrective actions.

Table 7-1: Documentation for Completion of Training

Name	Date Training Completed

Information to be provided via SWPPP Amendment, as required by HAR 11-55, Section 7.2.4, prior to the start of construction activities.

SECTION 8: CERTIFICATION AND NOTIFICATION

Instructions (CGP Appendix I, Part I.11.b):

- The following certification statement must be signed and dated by a person who meets the requirements of Appendix I, Part I.11.b.
- This certification must be re-signed in the event of a SWPPP Modification.

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

Name: _____ Title: _____

Signature: _____ Date: _____

[Repeat as needed for multiple construction operators at the site.]

SWPPP APPENDICES

Attach the following documentation to the SWPPP:

Appendix A – Site Maps

Appendix B – Copy of 2012 CGP

Appendix C – NOI and EPA Authorization Email

Appendix D – Inspection Form

(Note: EPA is in the process of developing a sample inspection form for use by CGP permittees. The form will be made available at http://cfpub.epa.gov/npdes/stormwater/cgp.cfm.)

Appendix E – Corrective Action Form

(Note: EPA is in the process of developing a sample corrective action form for use by CGP permittees. The form will be made available at http://cfpub.epa.gov/npdes/stormwater/cgp.cfm.)

Appendix F – SWPPP Amendment Log

Appendix G – Subcontractor Certifications/Agreements

Appendix H – Grading and Stabilization Activities Log

Appendix I – Training Log

Appendix J – Delegation of Authority

Appendix K – Endangered Species Documentation

Appendix L – Historic Preservation Documentation

Appendix A – Site Maps

Appendix B – Copy of 2012 CGP

REFER TO THE FOLLOWING LINKS FOR COPIES OF THE 2012 CGP AND 2014 WATER QUALITY STANDARDS:

https://www.epa.gov/npdes/stormwater-discharges-construction-activities-2012-cgp#cgp

http://health.hawaii.gov/cwb/

http://health.hawaii.gov/cwb/files/2013/04/Clean_Water_Branch_20131210_Appendices_C_and_A.pdf

http://health.hawaii.gov/cwb/files/2013/04/Clean_Water_Branch_20131210_HAR11_54.pdf

http://health.hawaii.gov/cwb/files/2013/04/Clean_Water_Branch_20131217_HAR1155.pdf

Appendix C – Copy of NOI and EPA Authorization email

Appendix D – Copy of Inspection Form

Appendix E – Copy of Corrective Action Form

Appendix F – *Sample* SWPPP Amendment Log

Instructions (see CGP Part 7.4):

- Create a log here of changes and updates to the SWPPP. You may use the table below to track these modifications.
- SWPPP modifications are required pursuant to CGP Part 7.4.1 in the following circumstances:
  - ✓ Whenever new operators become active in construction activities on your site, or you make changes to your construction plans, stormwater control measures, pollution prevention measures, or other activities at your site that are no longer accurately reflected in your SWPPP;
  - ✓ To reflect areas on your site map where operational control has been transferred (and the date of transfer) since initiating permit coverage;
  - ✓ If inspections or investigations determine that SWPPP modifications are necessary for compliance with this permit;
  - ✓ Where EPA determines it is necessary to impose additional requirements on your discharge; and
  - ✓ To reflect any revisions to applicable federal, state, tribal, or local requirements that affect the stormwater control measures implemented at the site.
- If applicable, if a change in chemical treatment systems or chemically-enhanced stormwater control is made, including use of a different treatment chemical, different dosage rate, or different area of application.

No.	Description of the Amendment	Date of Amendment	Amendment Prepared by [Name(s) and Title]

Appendix G – *Sample* Subcontractor Certifications/Agreements

SUBCONTRACTOR CERTIFICATION
STORMWATER POLLUTION PREVENTION PLAN

Project Number: _____

Project Title: _____

Operator(s): _____

As a subcontractor, you are required to comply with the Stormwater Pollution Prevention Plan (SWPPP) for any work that you perform on-site. Any person or group who violates any condition of the SWPPP may be subject to substantial penalties or loss of contract. You are encouraged to advise each of your employees working on this project of the requirements of the SWPPP. A copy of the SWPPP is available for your review at the office trailer.

Each subcontractor engaged in activities at the construction site that could impact stormwater must be identified and sign the following certification statement:

I certify under the penalty of law that I have read and understand the terms and conditions of the SWPPP for the above designated project and agree to follow the practices described in the SWPPP.

This certification is hereby signed in reference to the above named project:

Company: _____

Address: _____

Telephone Number: _____

Type of construction service to be provided: _____

_____

_____

Signature: _____

Title: _____

Date: _____

Appendix H – *Sample* Grading and Stabilization Activities Log

Date Grading Activity Initiated	**Description of Grading Activity**	**Description of Stabilization Measure and Location**	**Date Grading Activity Ceased** (Indicate Temporary or Permanent)	**Date When Stabilization Measures Initiated**

Appendix I – *Sample* SWPPP Training Log

Stormwater Pollution Prevention Training Log

Project Name:

Project Location:

Instructor's Name(s):

Instructor's Title(s):

Course Location: _____ Date: _____

Course Length (hours): _____

Stormwater Training Topic: *(check as appropriate)*

- ❑ **Sediment and Erosion Controls**
- ❑ **Emergency Procedures**
- ❑ **Stabilization Controls**
- ❑ **Inspections/Corrective Actions**
- ❑ **Pollution Prevention Measures**

Specific Training Objective:_____

_____

Attendee Roster: *(attach additional pages as necessary)*

No.	Name of Attendee	Company
1		
2		
3		
4		
5		
6		
7		
8		

Appendix J – *Sample* Delegation of Authority Form

Delegation of Authority

I, _____ (name), hereby designate the person or specifically described position below to be a duly authorized representative for the purpose of overseeing compliance with environmental requirements, including the Construction General Permit, at the _____ construction site. The designee is authorized to sign any reports, stormwater pollution prevention plans and all other documents required by the permit.

_____ (name of person or position)
_____ (company)
_____ (address)
_____ (city, state, zip)
_____ (phone)

By signing this authorization, I confirm that I meet the requirements to make such a designation as set forth in Appendix I of EPA's Construction General Permit (CGP), and that the designee above meets the definition of a "duly authorized representative" as set forth in Appendix I.

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

Name: _____

Company: _____

Title: _____

Signature: _____

Date: _____

Appendix K – Endangered Species Documentation

Criterion A was selected under section 3.1

Criterion A. No federally-listed threatened or endangered species or their designated critical habitat(s) are likely to occur in your site's "action area" as defined in Appendix A of this permit.

For criterion A, indicate the basis for your determination that no federally-listed threatened or endangered species or their designated critical habitat(s) are likely to occur in your site's action area (as defined in Appendix A of the permit). Check the applicable source of information you relied upon:

- ☐ Specific communication with staff of the U.S. Fish & Wildlife Service or National Marine Fisheries Service.
- ☐ Publicly available species list.
- ☒ **Other source: U.S. Fish & Wildlife Critical Habitat Portal (Website: http://ecos.fws.gov/crithab/)**

Appendix L – Historic Properties Documentation

N/A

No ground-disturbing stormwater controls used.