



State of Hawaii, Department of Health, Clean Water Branch

NPDES Form C

**Application for HAR, Chapter 11-55 - NPDES Individual Permit
Authorizing Discharges of Storm Water Associated With
Construction Activities (as defined in 40 CFR §§122.26(b)(14)(x) and
122.26(b)(15)(i))**

All sections of this form MUST be completed for National Pollutant Discharge Elimination System (NPDES) Permit compliance.

C.1 – General Information

You are required to fulfill all requirements and check the box below. If you do not check the box, your application will be considered incomplete, and the CWB may deny your request for NPDES permit coverage with prejudice.

X I certify that:

- I will design, implement, operate, and maintain a Site-Specific Best Management Practices (BMPs) Plan to ensure that storm water discharges associated with construction activities will not violate HAR, Chapter 11-54; HAR, Chapter 11-55; and HAR, Chapter 11-55, Appendix C.
- My Site-Specific BMPs Plan will contain perimeter control BMPs everywhere storm water may leave my project site.
- My Site-Specific BMPs Plan will contain appropriate controls to prevent a discharge of non-storm water pollutants; pollutants commingled in storm water; pollutants that may contaminate groundwater; and any applicable Section 303(d) pollutants of concern for my receiving State water.
- My Site-Specific BMPs Plan will contain appropriate controls to prevent tracking of sediment and debris onto streets/roads.
- Post-construction BMPs will be implemented, maintained, and incorporated into my project for storm water quantity and quality control. My post-construction BMPs will ensure that my project will comply with HAR, Chapter 11-54; HAR, Chapter 11-55; and HAR, Chapter 11-55, Appendix C.

C.2 - Existing Pollution Sources/ History of Land Use

Describe the history of land use at the existing Facility/Project site:

A majority of the project site is undeveloped. The small portions of the site that are developed include: roadway /shoulder/landscaped embankment along Farrington Highway fronting the Hawaiian Waters Adventure Park and the roadway/shoulder/landscaped embankment along outbound H-1 Freeway.

Determine if the existing Facility/Project site may contain any existing pollution source(s) by using the following references. Place a check next to all references you utilized to determine existing pollution source(s). You are required to check at least one reference.

- ☐ a. DOH, Solid and Hazardous Waste Branch-Hawaii Underground Storage Tank- Leaking Underground Storage Tank database
- ☐ b. DOH, Hazard Evaluation and Emergency Response Office records
- ☐ c. Phase I and/or Phase II Environmental Site Assessments, as applicable
- ☒ d. Recent site inspections
- ☐ e. Past land use history
- ☐ f. Soil sampling data, if available
- ☐ g. Other (specify): _____

Describe any existing pollution source(s) identified in the references you checked above: N/A

Describe any corrective measures that have been undertaken for any existing pollution source(s): N/A

C.3 - Construction Site Estimates

Please provide the following estimates for the construction site.

Total project area including areas to be left undisturbed: 18.91 acres

Construction site area to be disturbed including storage and staging areas: 18.91 acres

Impervious area before construction: 1.13 acres

Impervious area after construction: 6.05 acres

C.4 - Quantity of Storm Water Runoff

Estimate the quantity of storm water runoff during construction when the greatest and/or maximum area of disturbance occurs. Provide the supporting calculations in an attachment or insert in this section.

See Attachment A – Drainage Report

_____ Millions of Gallons per Day (MGD)

or

_____ 176.82 Cubic Feet per Second (CFS)

C.5 - Soil Characterization

Describe the nature of the soil on the project site (including the potential to encounter contaminated soil) and the nature of the fill material to be used:

Soil Types and Descriptions:

Ewa Silty Clay Loam, 3 to 6 percent slopes (EaB) – This soil occurs on alluvial fans and terraces. Included in Mapping were small areas of Honouliuli and Mamala soil. Also included were small areas of soils that have a silt loam surface layer and subsoil. Permeability is moderate. Runoff is slow, and the erosion hazard is slight. The available water capacity is about 1.3 inches per foot in the surface layer and 1.4 inches deep. In places roots penetrate to a depth of 5 feet or more. This soil is used for sugarcane, truck crops, and pasture.

Molokai Silty Clay Loam, 15 to 25 percent slopes (MuD) – This soil occurs on Oahu. In most places the slope does not exceed 20 percent. Runoff is medium, and the erosion hazard is severe. Workability is slightly difficult because of the slope. Included in mapping were small areas where boulder cores are exposed. This soil is used for sugarcane and pineapple.

Kawaihapai Clay Loam, 0 to 2 percent slopes (KIA) – This soil occupies smooth slopes. Included in mapping were small areas where the slope is 3 to 7 percent and the texture is silty clay. Also included were small areas of poorly drained soils and small areas of Jaucas soils. At the mouth of the Pelekunu and Wailau Valleys on Molokai, this soil receives more rainfall than is typical of the series. The natural vegetation consists of guava, honohono, kukui, and hala. Permeability is moderate. Runoff is slow, and the erosion hazard is no more than slight. The available water capacity is about 1.8 inches per foot in the subsoil. In places roots penetrate to a depth of 5 feet or more. In some places this soil is subject to flooding. This soil is used for sugarcane, truck crops, pasture, and orchards.

Molokai Silty Clay Loam, 7 to 15 percent slopes (MuC) - This soil occurs on knolls and sharp break slopes. Runoff is medium, and the erosion hazard is moderate. This soil is used for sugarcane, pineapple, pasture, wildlife habitat, and homesites.

Stony Steep Land – Stony steep land (rSY) consists of a mass of boulders and stones deposited by water and gravity on side slopes of drainage ways. It occurs on the island of Oahu. The slope ranges from 40 to 70 percent. Elevations range from 100 to 1,500 feet. The annual rainfall amounts to 20 to 80 inches. Stones and boulders cover 50 to 90 percent of the surface. There is

a small amount of soil among the stones that provides a foothold for plants. Rock outcrops occur in many places. This land type is used for wildlife habitat and recreation. The natural vegetation consists of kiawe, koa, haole, and grasses.

Soil series and mapping units are found in The U. S. Department of Agriculture Soil Conservation Service's "Soil Survey of Islands of Kauai, Oahu, Maui, Molokai, and Lanai, State of Hawaii", August 1972.

C.6 - Nature and Sequence of Construction Activity

What is the function of the construction activity (Please check all applicable activity(ies))?

☐ Residential ☐ Commercial ☐ Industrial ☒ Road Construction ☐ Linear Utility

☐ Other (please specify): _____

What is being constructed?

The project proposes to construct the phase of the Kapolei Interchange complex that connects the outbound H1 freeway to Wakea Street and Wakea Street to Farrington Highway. The project also proposes to widen and improve Farrington Highway and install associated drainage and electrical utilities.

Describe the scope of work and major construction activities you wish to be covered in this NPDES application, including baseyards and staging areas. You may only include project areas where the locations of impervious structures are known; project areas where the final grades are known; and work areas that will be performed by one (1) general contractor. A separate NPDES application will be required for all other project areas:

Major construction activities to be covered in this NPDES application include, but are not limited to: clearing and grubbing, pavement demolition and removal, retaining wall construction, grading, utility relocation and installation, AC paving, striping, and landscaping. The project baseyard and staging area will be located within the major construction limits.

C.7 - Existing or Pending Permits, Licenses, or Approvals

Place a check next to all applicable Federal, State, or County permits, Licenses, or approvals for the project and specify the permit number.

☐ Other NPDES Permit or NGPC File No.: _____

☐ Department of the Army Permit (Section 404): _____

If your project requires work in, above, under or adjacent to State waters, please contact the Army Corps of Engineers (COE) Regulatory Branch at (808) 438-9258 regarding their permitting requirements. Provide a copy of the COE permitting jurisdictional determination (JD) or the JD with COE Person's Name, Phone Number, and Date Contacted.

- ☐ *Facility on SARA 313 List (identify SARA 313 chemicals on project site):* _____
- ☐ *RCRA Permit (Hazardous Wastes):* _____
- ☐ *Section 401 Water Quality Certification:* _____
- ☐ *Other (Specify):* _____

County-approved Erosion and Sediment Control Plan and/or Grading Permit

- a. *Is a County-approved Erosion and Sediment Control Plan and/or Grading Permit, where applicable for the activity and schedule for implementing each control, required?*

☒ *Yes. Please complete Section C.7.b below and skip Section C.7.c.*

☐ *No. Please complete Section C.7.c below and skip Section C.7.b.*

- b. *Is a copy County-approved Erosion and Sediment Control Plan and/or Grading Permit, as appropriate for the activity and schedule for implementing each control, attached?*

☐ *Yes, see Attachment* _____

☒ *No, the County-approved Erosion and Sediment Control Plan and/or Grading Permit, as appropriate for the activity and schedule for implementing each control, will be submitted at least 30 calendar days before the start of construction activities.*

- c. *Please select and complete at least one (1) of the following items to demonstrate that a County-approved Erosion and Sediment Control Plan and/or Grading Permit, as appropriate for the activity and schedule for implementing each control, is not required.*

☐ *See Attachment* _____ *for the County written determination.*

☐ *Provide the County contact person information (Name, Department, Phone Number, and Date Contacted):* _____

☐ *The project is a Federal Project and does not require County approval.*

☐ *Other (specify):* _____

C.8 - Project Site Maps and Construction Plans/Drawings

Attach, title, and identify all maps (pdf - minimum 300 dpi) listed below, in Attachment A. Please reference which maps account for the features listed below.

- a. *Island on which the project is located. Oahu, See Attachment A - Figure 1.* _____
- b. *Vicinity of the project on the island. See Attachment A - Figure 1.* _____
- c. *Legal boundaries of the project. See Attachment A - Figure 2.* _____

- d. Receiving State water(s) from Section 6 of e-Permitting form and receiving separate drainage system(s) from Section 7 of e-Permitting form, identified and labeled. See Attachment A - Figures 4A, 4B, and 4C.
- e. Location of ALL discharge points from Section 6 of e-Permitting form with identification numbers. See Attachment A - Figures 4A, 4B, and 4C.
- f. Boundaries of 100-Year flood plans. See Attachment A - Figure 5.
- g. Areas of soil disturbance. See Attachment A - Pavement Grades Plans.
- h. Location(s) of impervious structures (including buildings, roads, parking lots, etc.) after construction is completed. See Attachment A - Plan and Profile Plans.
- i. Pre-Construction Topography including approximate slopes and drainage patterns for the entire Facility/Project site to the receiving storm water drainage system (if applicable) or to the receiving State water(s) (with flow arrows). See Attachment A - Figure 2.
- j. During-Construction Topography (after major grading activities) including approximate slopes and drainage patterns for the entire Facility/Project site to the receiving storm water drainage system (if applicable) or to the receiving State water(s) (with flow arrows). See Attachment A – Figure 3. Topography after major grading activities will be similar to post-construction topography.
- k. Post-Construction Topography including approximate slopes and drainage patterns for the entire Facility/Project site to the receiving storm water drainage system (if applicable) or to the receiving State water(s) (with flow arrows). See Attachment A – Figure 3.

C.9 - Flow Chart or Line Drawing

Attach or insert in Attachment A, a flow chart showing the following (Check each item, as applicable):

See Attachment A - Figure 6 - Flow Chart

- X a. Storm water entering the project from off-site areas
- X b. General route taken by storm water through the project (show the routes through different drainage areas)
- X c. Treatment system(s) utilized for the reduction of sediment (e.g., silt fence, earth berm, detention basin, vegetated swale, etc.)
- X d. Best Management Practices (BMPs) utilized to prevent erosion (e.g., erosion control mats, reduced open area, revegetation, etc.)
- X e. Estimated quantity of flow through each applicable route from upslope to the receiving State water
- X f. Drainage system(s) receiving storm water from the project, as applicable (e.g., City and County of Honolulu Municipal Separate Storm Sewer System (MS4), etc.)
- X g. State water name(s) receiving storm water from the project

Indicate which item(s) are not identified and explain why the item(s) are not identified N/A

C.10 - Construction Schedule

TENTATIVE CONSTRUCTION SCHEDULE

Date SSCBMP Plan, including erosion control measures will be implemented: September 2013

Date General Contractor will begin site disturbance: September 1, 2013

Date when each major construction activity begins/ends and proposed timetable for each major activity:

<u>Activity</u>	<u>Timetable</u>
<i>Clearing and Grubbing</i>	<i>September 15, 2013 - September 30, 2013</i>
<i>Grading</i>	<i>October 1, 2013 - December 1, 2013</i>
<i>Utility Installation</i>	<i>November 1, 2013 - December 1, 2013</i>
<i>Retaining Wall Construction</i>	<i>November 30, 2013 - January 30, 2014</i>
<i>Roadway Construction</i>	<i>November 30, 2013 - April 30, 2014</i>
<i>Overpass Construction</i>	<i>February 1, 2014 - March 30, 2014</i>
<i>Finishing</i>	<i>April 1, 2014 - May 1, 2014</i>

Date when the general contractor will end site disturbance: May 1, 2014

Date when erosion control measures will be removed: May 1, 2014

Date when the Notice of Cessation form will be submitted: May 1, 2014

C.11 - Potential Storm Water and Non-Storm Water Pollutant Sources

- a. You are required to check the box below. If you do not check the box, your application will be considered incomplete, and the CWB may deny your request for NPDES permit coverage with prejudice.

X I certify that:

- *All potential pollutant sources will be prevented from discharging with storm water runoff.*
- *All potential non-storm water pollution sources will not be discharged to State waters.*
- *I will not dispose of concrete truck wash water or any other potential ground water pollutant via percolation.*
- *All solid waste shall be disposed of at DOH, Solid and Hazardous Waste Branch (SHWB), Solid Waste Section (SWS) permitted facilities. If my solid waste cannot be disposed at these facilities, I will contact the SHWB-SWS at (808) 586-4226 as additional permits may be required.*

- b. *Place a check next to all potential storm water and non-storm water pollution sources applicable to your project.*

See Attachment A – BMP Detail Information for more information on potential storm water and non-storm water pollution sources and appropriate Site-Specific BMP's to be implemented for each pollutant source.

- X Construction debris, green waste, general litter.*
- X Materials associated with the operation and maintenance of equipment, such as oil, fuel, and hydraulic fluid leakage.*
- X Soil erosion from the disturbed areas*
- X Sediment from soil stockpiles*
- X Emulsified asphalt or prime/tack coat*
- X Materials associated with painting, such as paint and paint wash solvent*
- X Industrial chemicals, fertilizers, and or pesticides*
- X Hazardous waste (Batteries, Solvents, Treated Lumber, etc.)*
- X Metals*
- X Dust control water.*
- X Concrete truck wash water.*
- X Construction exit wash water.*
- X Irrigation water.*

- ☐ Hydrotesting effluent.
- ☐ Dewatering effluent.
- ☒ Saw-cutting slurry.
- ☒ Concrete curing water.
- ☒ Plaster waste water.
- ☐ Water-jet wash water.
- ☐ Existing pollution sources identified in C.2 above.
- ☐ Other (specify) _____

C.12 – Site-Specific Best Management Practices (BMPs) Plan

You are responsible for the design, implementation, operation, and maintenance of the site-specific BMPs Plan to ensure that storm water discharges associated with construction activities will not cause or contribute to a violation of HAR, Chapter 11-54, Chapter 11-55, and Chapter 11-55 Appendix C.

The contractor may augment or improve BMPs for discharges of storm water associated with construction activity after the NPDES permit is issued. Amendments to the Site-Specific BMPs Plan shall be identified and certified in Attachment F. These amendments do not have to be submitted to the DOH-CWB, but shall be kept on-site and available upon request.

Please refer to the updated DOH-CWB Best Management Practice (BMP) procedures regarding Storm Water Discharges Associated with Construction Activities:

- [DOH-CWB Procedures for the Use of New Technologies as BMPs](#)
- [DOH-CWB Procedures for Changing Construction Site-Specific BMPs](#)
- [Link to EPA Construction Storm Water Menu of BMPs](#)

a. *Are you submitting the Site-Specific BMPs Plan (Sections C.12.b through C.12.f) with your NPDES application?*

☒ *Yes. My Site-Specific BMPs Plan complies with Sections C.1 and C.11.*

☐ *No. My Site-Specific BMPs Plan will comply with Sections C.1 and C.11. **If you do not submit the Site-Specific BMPs Plan with your NPDES application, you acknowledge that:***

- *The CWB may not provide comments on information in Section C.12.*
- *You are required to submit Section C.12 to the DOH-CWB for comment at least 30 calendar days prior to starting construction activities. All questions/concerns that the DOH may have must be answered to the satisfaction of the CWB.*
- *The CWB will review Section C.12 in the order received and will not expedite the review to accommodate your schedule.*
- *The CWB has no required time limits to review any Site-Specific BMPs Plan after issuance of an NPDES Permit.*

- *You are potentially exposing yourself to significant delays.*
- b. *Show the location of all proposed BMPs. Attach, title, and identify all maps (pdf - minimum 300 dpi) listed below, in Attachment A. Please reference which maps account for the features listed below.*
- i. *Construction sequence diagrams showing the location of specific BMPs (including stabilization BMPs) that will be implemented at different sequences of construction: See Attachment A – Erosion Control Plans, All BMPs shown on these plans will be implemented and remain through each major construction activity.*
 - ii. *Additional Maps for **each major construction activity** that show all BMPs employed for activity specific pollution prevention. Please have at least one (1) map per major construction activity (e.g., Demolition, Mass Grading, Trenching, Vertical Construction, Landscaping, etc.) See Attachment A – Erosion Control Plans, All BMP's shown on these plans will be implemented and remain through each major construction activity.*
 - iii. *Construction Baseyard and/or staging areas including remote/off-site areas. Areas used for the storage of soils, construction materials, or wastes and areas for the disposal of wash water from washing down of construction equipment and vehicles, concrete truck drum wash water, treated dewatering effluent, hydrotesting effluent discharge, etc.: See Attachment A – Erosion Control Plans. The construction baseyard and staging areas will be located within the project site perimeter BMPs.*
 - iv. *Location(s) where stabilization practices are expected to occur: See Attachment A - Erosion Control Plans and Plan and Profile Plans.*
 - v. *Location(s) of all structural controls including those that will be used to divert the offsite storm water from flowing into the construction site and design details: N/A, not used on this project.*
 - vi. *Areas where vegetative practices are to be implemented: See Attachment A - Plan and Profile Plans.*
 - vii. *Post Construction Final Stabilization BMP Plan: See Attachment A - Plan and Profile Plans.*
- c. *Provide an installation detail with dimensions of all proposed BMPs, including the proposed BMPs that will be used to mitigate the potential pollutants identified in Section*

C.11.b. Attach the details and/or product data sheets in Attachment A: See Attachment A – Erosion Control Details and Attachment A – BMP Detail Information.

d. Describe your post construction BMP Plan, including all permanent BMPs, maintenance practices, etc.: See Attachment A - Permanent BMP Design Report.

e. You are required to check all boxes below to acknowledge that:

X A Storm Water Pollution Prevention Training Log will be maintained on-site and available upon request. Note: Training your onsite staff, general contractor, and subcontractors is a required BMP. Storm water pollution prevention training is required. By submitting this NPDES application, you are certifying that the storm water pollution prevention training will be conducted. You may utilize the Storm Water Pollution Prevention Training Log provided in Attachment B or a self-developed storm water pollution prevention training log. Do not submit your training log with your NPDES application.

X The Subcontractor Certification/Agreement in Attachment C will be completed prior to the start of construction activities, will be maintained on-site and will be available upon request. Do not submit the Subcontractor Certification/Agreement with your NPDES application.

X An Inspection Report Form will be maintained on-site and available upon request. Note: Site inspections ensure NPDES compliance and adequate implementation of the Site-Specific BMPs Plan. Site inspections are required. Site inspection schedules and procedures shall be developed for your site including BMP maintenance requirements, names and contact numbers for responsible staff, and timeframe for making corrections. You may utilize the Inspection Report Form provided in Attachment D or a self-developed Inspection Report Form. Do not submit your inspection report form with your NPDES application.

f. Provide a contingency plan in Attachment E to ensure that even under the worst case scenario, the construction activity will have a minimal adverse impact to State water(s). You may utilize the Contingency Plan provided in Attachment E or a self-developed Contingency Plan.

X The Contingency Plan is attached as Attachment E.