

**AUTHORIZATION TO DISCHARGE UNDER THE  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM**

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. §1251 et. seq.; the "Act"); Hawaii Revised Statutes, Chapter 342D; and Hawaii Administrative Rules (HAR) Department of Health (DOH), State of Hawaii, Chapters 11-54 and 11-55;

**CITY AND COUNTY OF HONOLULU (CITY)  
DEPARTMENT OF FACILITY MAINTENANCE (DFM)**

(PERMITTEE)

is authorized to discharge storm water runoff and certain non-storm water discharges as identified in Part B.2 of this permit from the following:

1. City's Municipal Separate Storm Sewer System which includes Honolulu Hale, Civic Center and Fasi Municipal Building Complex, the Kapolei Hale Municipal Building Complex, the Kapalama Hale Municipal Building, Joint Traffic Management Center, and other City MS4 Facilities [i.e., those with a drainage system and two (2) or more buildings] listed in Table 2;
2. City Industrial Facilities listed in Table 1; and
3. Additional storm sewer outfalls that may be identified from time to time by the Permittee, into State Waters in and around the Island of Oahu, Hawaii, in accordance with the general requirements, discharge monitoring requirements, and other conditions set forth herein, and in the attached DOH "Standard NPDES Permit Conditions," that is available on the DOH, Clean Water Branch (CWB) website at: <http://health.hawaii.gov/cwb/clean-water-branch-home-page/standard-npdes-permit-conditions/>.

All references to Title 40 of the Code of Federal Regulations (CFR) are to regulations that are in effect on July 1, 2019, except as otherwise specified. Unless otherwise specified herein, all terms are defined as provided in the applicable regulations in Title 40 of the CFR.

This permit will take effect on **September 1, 2020**.

This permit and the authorization to discharge will expire at midnight, **August 31, 2025**.

Signed this **7th** day of **August, 2020**.



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(For) Director of Health

Table 1 – City Industrial Facilities		
Department	Division / District	Facility Name
Department of Environmental Services	Collection System Maintenance (CSM)	Halawa (CSM) Baseyard
	Refuse - Closed Landfills	Kalaheo Closed Landfill
		Kapaa Closed Landfill
		Kawailoa Closed Landfill
		Waianae Closed Landfill
		Waipahu Ash Closed Landfill
	Refuse - Collection Yards	Honolulu Refuse Collection Yard
		Kapaa Refuse Collection Yard
		Leeward Baseyard <sup>1</sup>
		Pearl City Refuse Collection Yard
		Waianae Refuse Collection Yard
	Refuse - Convenience Centers	Ewa Convenience Center
		Laie Refuse Convenience Center
		Leeward Convenience Center <sup>1</sup>
		Wahiawa Convenience Center
		Waianae Convenience Center
		Waimanalo Refuse Convenience Center
		Waipahu Refuse Convenience Center
		Waipahu Incinerator Super Center <sup>1</sup>

Department of Environmental Services	Refuse - Transfer Stations	Kapaa Refuse Transfer Station
		Keeki Refuse Transfer Station
		Kawailoa Refuse Transfer Station
	Treatment & Disposal - Wastewater Treatment Plants (WWTP)	Honouliuli Wastewater Treatment Plant
		Kailua Wastewater Treatment Plant
		Sand Island Wastewater Treatment Plant
		Wahiawa Wastewater Treatment Plant
		Waianae Wastewater Treatment Plant
		Waimanalo Wastewater Treatment Plant
		Kaneohe Pre-Treatment Facility <sup>2</sup>
Department of Facility Maintenance	Automotive Equipment Service (AES)	Halawa (AES) Corporation Yard
		Kapolei (AES) Consolidated Corporation Yard <sup>1</sup>
		Pearl City (AES) Corporation Yard
		Kapaa Corporation Yard
	Public Building and Electrical Maintenance (PBEM)	Manana (PBEM) Corporation Yard
Department of Facility Maintenance	Road Division	Laie (Koolauloa) Corporation Yard and Laie Refuse Collection Yard
		Wahiawa Corporation Yard and Refuse Collection Yard
		Waialua Corporation Yard and Refuse Collection Yard
		Honolulu (DRM) Corporation Yard
		Kailua-Waimanalo Corporation Yard
		Kaneohe (Koolaupoko) Corporation Yard
		Kapolei (DRM) Consolidated Corporation Yard

		Pearl City (Ewa) (DRM) Corporation Yard
Department of Parks and Recreation	--	Manana (DPR-MSS) Corporation Yard
Department of Transportation Services	--	Kalihi-Palama Bus Facility and Paratransit Facility
		Pearl City Bus Facility
		Manana (DTS) Corporation Yard
Honolulu Rail Transit (HART)	--	Rail Operations Center <sup>3</sup>

1. Not yet constructed.
2. Following the completion of ongoing construction, this facility will no longer have the capacity to treat wastewater and will therefore become a non-industrial City MS4 facility.
3. This facility currently operates under Honolulu Rail Transit (HART) but will operate under the Department of Transportation Services in the future.

<b>Table 2 – Additional City MS4 Facilities</b>		
<b>Department</b>	<b>Division / District</b>	<b>Facility Name</b>
Department of Enterprise Service	--	Ala Wai Golf Course
		Ewa Villages Golf Course
		Honolulu Zoo
		Kahuku Golf Course
		Neal Blaisdell Center
		Pali Golf Course
		Ted Makalena Golf Course
		Waikiki Shell
		West Loch Golf Course
Department of Environmental Services	Collection System Maintenance (CSM)	Aala Pump Station
		Ala Moana #1 and #2 Pump Station
		Alala Point Pump Station
		Aliamanu #1 Pump Station

Table 2 – Additional City MS4 Facilities		
Department	Division / District	Facility Name
		Aliamanu #2 Pump Station
		Alii Bluffs Pump Station
		Awa Street Pump Station
		Beachwalk Pump Station
		Coconut Grove Pump Station
		Enchanted Lake Pump Station
Department of Environmental Services	Collection System Maintenance (CSM)	Ewa Beach Pump Station
		Fort DeRussy Pump Station
		Grandview Pump Station
		Halawa Pump Station
		Halekou Pump Station
Department of Environmental Services	Collection System Maintenance (CSM)	Hart Street Pump Station
		Heeia Pump Station
		Homelani Pump Station
		Kahala Pump Station
		Kahaluu Housing Pump Station
		Kahaluu Pump Station
		Kahanahou Pump Station
		Kahawai Stream Pump Station
		Kailua Heights Pump Station
		Kailua Road Pump Station
		Kamehameha Highway Pump Station
		Kaneohe Bay #2 Pump Station
		Kaneohe Bay #3 Pump Station

Table 2 – Additional City MS4 Facilities		
Department	Division / District	Facility Name
		Kaneohe Bay #4 Pump Station
		Kaneohe Bay #5 Pump Station
		Kapolei Business Park Wastewater Pump Station
		Kemoo Farm Pump Station
		Kukanono Pump Station
		Kuliouou Wastewater Pump Station
		Kunia Pump Station
		Laenani Pump Station
		Laie Wastewater Pump Station
		Department of Environmental Services
Lualualei Pump Station		
Makakilo Pump Station		
Maunawili Estates Pump Station		
Maunawili Park Pump Station		
Mililani Pump Station		
Miomio Pump Station		
Moana Park Pump Station		
Nakula Pump Station		
Nanakuli Pump Station		
Niu Valley Pump Station		
Ohai Pump Station		
Pacific Palisades Pump Station		
Paiko Drive Pump Station		
Pearl City Pump Station		

<b>Table 2 – Additional City MS4 Facilities</b>		
<b>Department</b>	<b>Division / District</b>	<b>Facility Name</b>
		Public Baths Pump Station
		Punawai Pump Station
		Sand Island Industrial Park Pump Station
		Uwalu Pump Station
		Waiawa Pump Station
		Waikalua Pump Station
		Waikapoki Pump Station
		Waimalu Pump Station
		Waipahu Pump Station
Department of Environmental Services	Collection System Maintenance (CSM)	Waipio Pump Station
		West Beach #1 Pump Station
		West Beach #2 Pump Station
		West Loch Estates Pump Station
		West Loch Fairways Pump Station
	Treatment & Disposal	Ahuimanu Pre-Treatment Facility
		Kahuku Wastewater Treatment Plant
		Kaneohe Bay #1 Pump Station
		Kaneohe Effluent Pump Station
		Laie Water Reclamation Facility
		Paalaa Kai Wastewater Treatment Plant
		Whitmore Pre-Treatment Facility
		Department of Facility Maintenance
Chief Engineer Office (CEO)	Kapolei (CEO) Consolidated Corporation Yard <sup>1</sup>	

Table 2 – Additional City MS4 Facilities		
Department	Division / District	Facility Name
	Public Building and Electrical Maintenance (PBEM)	Kokea Corporation Yard
	Road Division	Ahuimanu Dewatering Facility
		Auahi Coning Yard <sup>2</sup>
		Chinatown Clean Team
		Kapahulu Coning Yard <sup>3</sup>
		Lunalilo Street SPO/SNO Yard <sup>3</sup>
	Sand Island Dewatering Facility	
Department of Parks and Recreation	District I	Ala Wai Community Park
		Hanauma Bay Nature Preserve
		Kaimuki Community Park
		Kapiolani Regional Park
		Kilauea District Park
		Koko Head District Park
		Manoa Valley District Park
		McCully District Park
		Palolo Valley District Park
		Petrie Community Park
Department of Parks and Recreation	District II	Aiea District Park
		Ala Moana Regional Park
		Ala Puumalu Community Park
		Booth District Park
		Halawa District Park
		Kalakaua District Park



Table 2 – Additional City MS4 Facilities			
Department	Division / District	Facility Name	
		Kalihi Valley District Park	
		Lanakila District Park	
		Makiki District Park	
		Moanalua Community Park	
		Puunui Community Park	
		Salt Lake District Park	
		Keehi Lagoon Park	
	District III	Makakilo Community Park	
		Mililani District Park	
		Nanakuli Beach Park	
		Pearl City District Park	
		Wahiawa District Park	
		Waianae District Park	
		Waipahu District Park	
Department of Parks and Recreation	District III	West Loch Shoreline Park	
		Neal S. Blaisdell Park	
		Ewa Mahiko District Park	
		District IV	Kaiaka Bay Beach Park
			Kailua District Park
	Kaneohe Community and Senior Center		
	Kaneohe District Park		
	Kualoa Regional Park		
	Waimanalo District Park		
	District V	Central Oahu Regional Park	

Table 2 – Additional City MS4 Facilities		
Department	Division / District	Facility Name
		Waipio Soccer Complex
	Division of Urban Forestry	Kapiolani Nursery
		Nuuanu Nursery
		Queen Kapiolani Garden
	Honolulu Botanical Gardens	Fosters Botanical Garden
		Hoomaluhia Botanical Garden
		Koko Crater Botanical Garden
		Wahiawa Botanical Garden

Table 2 – Additional City MS4 Facilities		
Department	Division / District	Facility Name
Honolulu Fire Department		Aiea Fire Station
		Aikahi Fire Station
		Central Fire Station
		East Kapolei Fire Station
		Ewa Beach Fire Station
Honolulu Fire Department		Hauula Fire Station
		Hawaii Kai Fire Station
		Kaaawa Fire Station
		Kahaluu Fire Station
		Kahuku Fire Station
		Kailua Fire Station
		Kaimuki Fire Station
		Kakaako Fire Station
		Kalihi Fire Station

Table 2 – Additional City MS4 Facilities		
Department	Division / District	Facility Name
		Kalihi Kai Fire Station
		Kalihi Uka Fire Station
		Kaneohe Fire Station
		Kapolei Fire Station
		Kuakini Fire Station
		Makakilo Fire Station
		Makiki Fire Station
		Manoa Fire Station
		McCully-Moilili Fire Station

Table 2 – Additional City MS4 Facilities		
Department	Division / District	Facility Name
Honolulu Fire Department		Mililani Fire Station
		Mililani Mauka Fire Station
		Moanalua Fire Station
		Mokulele Fire Station and Training Facility
		Nanakuli Fire Station
		Nuuanu Fire Station
		Olomana Fire Station
		Palolo Fire Station
		Pawaa Fire Station
		Pearl City Fire Station
		Sunset Beach Fire Station
Wahiawa Fire Station		

Table 2 – Additional City MS4 Facilities		
Department	Division / District	Facility Name
		Waiialua Fire Station
		Waianae Fire Station
		Waiau Fire Station
		Waikele Fire Station
		Waikiki Fire Station
		Wailupe Fire Station
		Waimanalo Fire Station
		Waipahu Fire Station
		Waipahu Vehicle Maintenance Shop
		Aircraft One Fire Station

Table 2 – Additional City MS4 Facilities		
Department	Division / District	Facility Name
Honolulu Police Department		Central Police Station
		Homeland Security Warehouse
		Honolulu Police Training Academy
		Kahuku Police Station
		Kailua Police Station
		Kalihi Police Station
		Kaneohe Police Station
		Kapolei Police Station
		Pearl City Police Station
		Wahiawa Police Station
		Waianae Police Station
Helicopter Section Hangar (SSD)		

Table 2 – Additional City MS4 Facilities		
Department	Division / District	Facility Name
Honolulu Emergency Services Unit		Ewa Beach EMS Unit
		Hawaii Kai EMS Unit
		Kahuku EMS Unit
		Kailua EMS Unit
		Kalaeloa Training Center
		Kaneohe EMS Unit
		Makakilo EMS Unit
		Metro I / Makiki EMS Unit
		Nanakuli EMS Unit
		OPS1 EMS Unit
		Pawaa I EMS Unit

Table 2 – Additional City MS4 Facilities		
Department	Division / District	Facility Name
		Salt Lake EMS Unit
		Wahiawa EMS Unit
		Waialua EMS Unit
		Waianae EMS Unit
		Wailupe EMS Unit
		Waimanalo EMS Unit
		Waipahu EMS Unit
		Waipio EMS Unit
		Airport Vehicle Maintenance Yard

1. This facility currently operates under AES but will operate under CEO in the future.
2. This facility is currently operational. Will return to services as a City Street when Lunalilo Street SPO/SNO Yard and Kapahulu Coning Yard are operational.
3. Not yet operational.

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ATTACHMENT: STANDARD NPDES PERMIT CONDITIONS, Version 15. In case of conflict between the conditions stated in this permit and those specified in the Standard NPDES Permit Conditions, the more stringent conditions shall apply.

**Part A. GENERAL REQUIREMENTS**

The Permittee shall:

Part A.1. Comply with all requirements of this permit; the existing City's SWMP Plan until submittal of the revised City's SWMP Plan to DOH; Storm Water Pollution Control Plans (SWPCPs) and future activities as identified in its last submitted Annual Report. The revised SWMP Plan shall be implemented upon submittal to DOH, and revised to address any DOH comments within 30 calendar days of receipt. In case of conflict with any requirement, the more stringent requirement shall apply.

Part A.2. Retain a copy of this permit and all other related materials and the SWMP, with all subsequent revisions, at the DFM office.

Part A.3. Ensure that anyone working under this permit complies with the terms and conditions of this permit.

Part A.4. Include the permit number, **HI S000002**, and the following certification with all information required under this permit:

**"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 gather and evaluate 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."**

Part A.5. The following "Plans," except those relating to construction projects (e.g., Storm Water Pollution Prevention Plan, Construction BMP Plan, Erosion Control Plan, Plans for Post-Construction BMPs, etc.) shall be available on the City's website for a minimum of 30 calendar days for public review and comment at least 90 calendar days prior to the Plan finalization:

- SWMP Plan;
- Action Plan for Retrofitting the Existing MS4 with Structural BMPs;
- Industrial Facility Storm Water Pollution Control Plans;



- Annual Monitoring Plan; and
- TMDL Implementation and Monitoring Plans;

The City shall notify DOH by e-mail at: [cleanwaterbranch@doh.hawaii.gov](mailto:cleanwaterbranch@doh.hawaii.gov), within five (5) calendar days of the plan being available on their website. The City shall address all comments received within the 30 calendar day period and provide both comments and responses to DOH with its submittal of the Final Plan. All Plans shall be implemented upon submittal regardless of DOH's review and acceptance. If any deficiencies are found by DOH after submittal, the Permittee shall correct the deficiencies to DOH's satisfaction within 30 calendar days or such other time as agreed to in writing, submit the revised Plan, and again allow the public to review and comment for 30 calendar days. In addition to the Plans being available for public comment, the current/existing Plans shall also be available on the City's website.

Part A.6. All information and reports required under this permit and updates to information on file shall be submitted through the "CWB Compliance Submittal Form for Individual NPDES Permits and Notice of General Permit Coverages (NGPCs)," or other form approved by the DOH. This form is accessible through the e-Permitting Portal website at: <https://eha-cloud.doh.hawaii.gov/epermit/>. If not already registered, you will be asked to do a one-time registration to obtain your login and password. After you register, click on the Application Finder tool to locate the form. Follow the instructions to complete and submit this form. All submissions shall include a CD or DVD containing the downloaded e-Permitting submission and a completed Transmittal Requirements and Certification Statement for e-Permitting NPDES/NGPC Compliance Submissions Form, with original signature and date.

Part A.7. Submit all information required under this permit to the following address:

Director of Health  
Clean Water Branch  
Environmental Management Division  
Department of Health  
2827 Waimano Home Road, #225  
Pearl City, Hawaii 96782

**Part B. DISCHARGE LIMITATIONS**

Part B.1. The Permittee shall effectively prohibit non-storm water discharges through its MS4 into State Waters and from facilities covered under this permit. National Pollutant Discharge Elimination System (NPDES) permitted discharges and non-storm water discharges identified in Part B.2 of this permit are exempt from this prohibition.

Part B.2. The following non-storm water discharges may be discharged into the Permittee's MS4 provided that the discharge is identified below, and meets all conditions when specified by the Permittee. In the event that any of the below non-storm water discharges are determined to be a source of pollutants by the Permittee, the discharge will no longer be allowed.

- ✓ Water line flushing (using potable water);
- ✓ Landscape irrigation (using potable water);
- ✓ Diverted stream flows;
- ✓ Rising ground waters;
- ✓ Uncontaminated ground water infiltration (as defined in 40 CFR §35.2005[20]) to separate storm sewers;
- ✓ Uncontaminated pumped ground water;
- ✓ Discharges from potable water sources;
- ✓ Discharges from foundation drains;
- ✓ Air conditioning condensate;
- ✓ Irrigation water (using potable water);
- ✓ Springs;
- ✓ Water from crawl space pumps and footing drains;
- ✓ Lawn watering (using potable water);
- ✓ Individual residential car washing (using potable water);
- ✓ Flows from riparian habitats and wetlands;
- ✓ Dechlorinated swimming pool discharges;
- ✓ Street wash water without soaps/detergents (using potable water); and
- ✓ Discharges or flows from firefighting activities.

The Permittee may also develop a list of other similar occasional incidental non-storm water discharges (e.g., non-commercial car washes, etc.) that will not be addressed as illicit discharges. These non-storm water discharges must not be reasonably expected (based on information available to the Permittee) to be significant sources of pollutants to the MS4, because of either the nature of the discharges or conditions the Permittee has established for allowing these discharges to the MS4

(e.g., non-commercial car wash with appropriate controls on frequency, proximity to sensitive water bodies, BMPs on the wash water, etc.). The Permittee shall document in the storm water management plan any local controls or conditions placed on the discharges, and include a provision prohibiting any individual non-storm water discharge that is determined to be contributing pollutants to the MS4.

Part B.3. The discharge of pollutants from the Permittee's MS4, shall be reduced to the Maximum Extent Practicable (MEP), consistent with Section 402(p)(3)(B) of the CWA. This permit, and the provisions herein, is intended to develop, achieve, and implement a timely, comprehensive, cost-effective storm water management program to reduce the discharge of pollutants to the MEP from the City's MS4 to waters of the State. MEP is a dynamic performance standard and it evolves as our knowledge of urban runoff control measures increases.

Part B.4. The discharge of pollutants from the Permittee's facilities as identified in Table 1 shall be reduced to the appropriate discharge limitations subject to the Best Available Technology (BAT)/ Best Conventional Pollutant Control Technology (BCT) discharge requirement, consistent with the CWA and other respective federal and state requirements for such facilities. Table 1 includes those facilities classified as industrial facilities in accordance with 40 CFR §122.26(b)(14) (e.g., storm water discharges from: treatment works treating domestic sewage with a design flow of one (1) MGD or more, convenience centers, refuse collection yards, corporation yards), including facilities with primary function descriptions matching narrative descriptions of an industrial activity, and other City-owned and operated facilities as identified by the City that are potential significant sources of pollution in storm water.

**Part C. RECEIVING WATER LIMITATIONS, INSPECTIONS, AND CORRECTIVE ACTIONS**

Part C.1. The discharge shall comply with the basic water quality criteria which states:

"All waters shall be free of substances attributable to domestic, industrial, or other controllable sources of pollutants, including:

Part C.1.a. Materials that will settle to form objectionable sludge or bottom deposits;

Part C.1.b. Floating debris, oil, grease, scum, or other floating materials;

Part C.1.c. Substances in amounts sufficient to produce taste in the water or detectable off flavor in the flesh of fish, or in amounts sufficient to produce objectionable color, turbidity or other conditions in receiving waters;

Part C.1.d. High or low temperatures; biocides; pathogenic organisms; toxic, radioactive, corrosive, or other deleterious substances at levels or in combinations sufficient to be toxic or harmful to human, animal, plant, or aquatic life, or in amounts sufficient to interfere with any beneficial use of the water;

Part C.1.e. Substances or conditions or combinations thereof in concentrations which produce undesirable aquatic life; and

Part C.1.f. Soil particles resulting from erosion on land involved in earthwork, such as the construction of public works; highways; subdivisions; recreational, commercial, or industrial developments; or the cultivation and management of agricultural lands."

Part C.2. The discharge shall not cause or contribute to a violation of any of the applicable beneficial uses or water quality standards contained in HAR Chapter 11-54, titled "Water Quality Standards."

Part C.3. During inspections/screenings as required by this permit, the Permittee shall visually inspect the discharge and receiving state water(s) to detect violations of and conditions which may cause violations of Part C.1 of this permit. If the discharge enters a drainage system immediately prior to discharging to a state water, then the City may inspect the discharge where it enters the drainage system rather than at the receiving water.

For situations where the receiving state water is not inspected, the City shall document the reasons in the inspection report.

Part C.4. The Permittee shall immediately take action to stop, reduce, or modify the discharge of pollutants as needed to stop or prevent a violation of the basic water quality criteria as specified in HAR Section 11-54-4.

Part C.5. Following the last Milestone/Deliverable, as identified in Part F.3.c. – Total Maximum Daily Load (TMDL) Schedules of Compliance, the Permittee shall demonstrate consistency with the annual Wasteload Allocations (WLAs) reductions consistent with the assumption of the associated TMDL document. For future TMDLs adopted by DOH and approved by the EPA, the Permittee shall demonstrate consistency with the WLAs consistent with the assumption of the associated TMDL document within the timeframe as specified in its Implementation and Monitoring (I&M) Plan.

**Part D. STORM WATER MANAGEMENT PLAN (SWMP)**

The Permittee shall:

Part D.1. Review, revise, implement, and enforce a SWMP designed to address the requirements of this permit and reduce, to the MEP, the discharge of pollutants to and from its MS4, as authorized, to protect water quality and to satisfy the appropriate water quality requirements of the Act.

At a minimum, the City must include the following information in its SWMP document:

1. Ordinances, or other regulatory mechanisms, providing the legal authority necessary to implement and enforce the requirements of this permit;
2. Statement by the City's Corporation Counsel certifying to adequacy of legal authority; and
3. Written procedures describing how the City will implement each of the SWMP components described in Part D.1.a to Part D.1.g, including the following:
  - The BMPs, plus underlying rationale, that shall be implemented for each of the program components.
  - The measurable goals, standards and milestones for each of the BMPs, plus underlying rationale, including interim measures to assess the effectiveness of each program component and to guide the overall program implementation.
  - The name or position title and affiliation of the person or persons responsible for implementation or coordination of each program component.
  - Monitoring to determine effectiveness of Wasteload Allocation (WLA) controls and of the overall storm water program.
  - Evaluation of information collected and the resulting programmatic changes in an effort to maximize program resources to comply with this permit.

Submittal Date. The SWMP shall be updated and modified per the requirements of this permit and be consistent with the format of this permit, and shall be submitted to DOH within one (1) year from the effective date of this permit, or as otherwise specified, and shall fully implement the SWMP upon submittal to DOH. The Permittee shall continue to implement the existing SWMP until submittal of the revision. The SWMP and any of its revisions, additions, or modifications are enforceable components of this permit.

Part D.1.a. Public Education and Outreach

The Permittee shall further develop and implement a comprehensive education and involvement program to distribute educational materials to the community or conduct equivalent outreach activities about the impacts of storm water and illicit discharges and the steps that the public can take to reduce pollutants in storm water runoff. The program should create: changes in attitude, knowledge, and awareness; BMP implementation; pollutant load reduction; and changes in discharge and receiving water quality. The program shall target: locations of illicit discharges, decision-makers, industrial and commercial businesses, construction operators, homeowners, university students, and school children, and the general public. The SWMP shall include a written public education plan for how the Permittee will reach all targeted audiences and implement the permit requirements described below.

Part D.1.a.(1) *Targeted Groups.* The Permittee shall address the following targeted groups in the public education plan with appropriate messages, and shall describe outreach activities and anticipated frequencies that each activity will be conducted over the permit term:

- City employees
- City consultants
- Construction industry
- Industrial facilities covered by the NPDES permit program
- Visitor industry such as hotels, condominiums, and restaurants in Waikiki
- Commercial businesses such as landscape service and maintenance (e.g., to prevent the use of leaf blowers from blowing material into the drainage structures), automobile detailing, automobile repair and maintenance, retail gasoline outlets, and restaurants

- Businesses involved in fire sprinkler testing, fire department training, and exterior building washing operations
- Any other source that the Permittee determines may contribute a significant pollutant load to its MS4

Part D.1.a.(2) *General Public.* The Permittee shall include in the public education plan the following activities, with anticipated frequencies that each activity will be *conducted* over the permit term:

- Public Service Announcements (PSAs)
- Volunteer Clean Up Programs
- School programs
- Distribution of education materials
- Participation in special events (e.g., Earth Day events) and exhibits
- Web site

The following topics shall be included within at least one of the activities listed above:

- Pesticides, herbicides, and fertilizer use
- Water conservation
- Proper disposal of grass clippings, leaves, and other green waste
- Proper disposal of household hazardous waste

Part D.1.a.(3) *Evaluation Methods.* The Permittee shall evaluate the progress of the public education program based on, at a minimum, the following:

- An annual survey of Oahu residents to measure both behavior and knowledge relating to storm water. The surveys can be conducted in person at events, on the phone, or using Web-based survey tools. The results of the survey shall be compared to past surveys.
- Number of educational materials distributed
- Number of people trained
- Participation in events
- Volunteer events
- Activity Reach (i.e., the extent of the public education program's effectiveness or influence)



The results of the evaluation shall be summarized in the Annual Report.

Part D.1.b. Public Involvement/Participation

The Permittee shall include the public in developing, reviewing, and implementing the SWMP. The SWMP shall be made available to the public in accordance with Part A.5. Following the public comment period, an informational meeting shall be scheduled and announced prior to finalizing the SWMP to answer questions from the public. Other activities to involve the public may include providing volunteer opportunities that improve water quality, organizing a citizen advisory group to solicit ongoing input from the public about changes to the SWMP and specific SWMP-related projects, or organizing water quality-focused clean-up events to educate the public about storm water impacts.

Part D.1.c. Illicit Discharge Detection and Elimination (IDDE)

The Permittee shall review and update its IDDE program to detect and eliminate illicit connections and illegal discharges into its MS4. Future activities shall be based on information collected during past activities and an assessment of their effectiveness. The IDDE program shall include:

Part D.1.c.(1) *Improper Discharge Activities.* The Permittee shall develop and implement an improper discharge activities program to reduce to the MEP the unauthorized and illegal discharge of pollutants to its MS4.

Part D.1.c.(2) *Connection Permits for private drain connections -* Within one (1) year after the effective date of this permit the Permittee shall establish requirements for issuing connection permits and require obtaining the permit prior to allowing the drain connections. A database shall be maintained of all permitted connections to its MS4. Prior to issuing a connection permit, the Permittee shall ensure control measures comply with its requirements to minimize pollutant discharge into its MS4.

Part D.1.c.(3) *Field Screening.* The City shall continue to implement its field screening plan. The City shall also review and update, as necessary, its field screening plan for observing major and minor outfalls to screen for improper discharges. The Plan shall include procedures to evaluate observed dry weather flows and erosion at the outfalls. The field screening plan shall be included within the SWMP and any

revisions reported in the Annual Report. The City shall develop defined procedures for conducting dry weather flow analyses and upstream tracking in an effort to characterize flows from the MS4 and to identify potential illicit discharges and connections. If any outfall locations are submerged at the time of inspection, the monitoring personnel shall inspect the discharge line (or contributing tributary lines), at the closest location(s) upstream of the discharge location and outside tidal influence. Additionally, the City shall establish a process for City or consultant field staff to notify DFM if dry weather flow, pollutant discharge, or erosion is observed from an MS4 outfall so the flow and erosional area can be assessed and tracked, if necessary. The plan shall also designate priority areas for screening and specify the frequency for screening. Areas used by the homeless that discharge to the MS4 shall be designated a priority.

- Part D.1.c.(4) *Tracking.* The Permittee shall continue to maintain a database of illicit connections, illegal discharges, and spills and include information about each suspected illicit discharge, the Permittee's investigation of that discharge, the type of discharge, responsible party, City's response, follow-up activities, and the resolution of the illicit discharge to the MS4.
- Part D.1.c.(5) *Investigate complaints.* The Permittee shall promptly investigate observed, suspected, or reported illicit flows and pursue enforcement actions, as appropriate. Complaints made to the CWB, which discharge to the City's MS4 will be forwarded to the Permittee for their action. The Permittee shall continue to:
- (i) Implement a program to facilitate public reporting of illicit discharges (i.e., City's Environmental Concern Line and/or website for reporting); and
  - (ii) Review and update the "Response Plan for Investigations of Illegal Discharges," dated June 2012, as necessary to be consistent with the requirements in this permit. The response plan shall be included within the SWMP and any revisions reported in the Annual Report.
- Part D.1.c.(6) *Enforcement.* The Permittee shall continue to ensure compliance with local ordinances and pursue enforcement actions against property owners with illegal drain connections and persons illegally discharging pollutants to its MS4.

Part D.1.c.(7) *Prevent and Respond to Spills to the City MS4.* The Permittee shall continue to implement a program to prevent, respond to, contain, and clean up all wastewater and other spills that may enter into its MS4 from any source (including private laterals and failing cesspools). Spill response teams, which may consist of local, state, and/or federal agencies, shall prevent public exposure to spills prior to preventing the entry of spills into the City's MS4 and contamination of surface water, ground water, and soil to the MEP.

The Permittee shall continue to coordinate spill prevention, containment, and response activities throughout all appropriate departments, programs, and agencies to ensure protection of public health and maximum water quality protection at all times.

The Permittee shall continue to implement a procedure whereby DOH is notified of all wastewater spills or overflows from private laterals and failing septic systems into its MS4. The Permittee shall prevent, respond to, contain, and clean up wastewater from any such notification.

Part D.1.c.(8) *Facilitate Proper Disposal of Used Oil and Toxic Materials.* The Permittee shall continue to implement a program(s) to facilitate the proper management and disposal or recycling of used oil, vehicle fluids, toxic materials, and other household hazardous wastes. Such a program shall include educational activities, public information activities, and establishment of collection sites operated by the Permittee or a private entity.

Part D.1.c.(9) *Training.* The Permittee shall continue to provide annual training to staff on identifying and eliminating illicit connections, illegal discharges, and spills to the MS4. At a minimum, the staff trained shall include Department of Planning and Permitting and Department of Design and Construction inspectors, Department of Facility Maintenance field staff, DFM inspectors and field staff, and code compliance officers.

Part D.1.d. Construction Site Runoff Control

Permittee shall continue to implement a construction site management program to reduce to the MEP the discharge of pollutants from both private and public construction sites. The construction site management program shall include the following minimum elements:

- Part D.1.d.(1) *Requirement to implement BMPs.* The Permittee shall continue to require proposed construction projects to implement BMPs and standards described in the City's "Rules Relating to Water Quality, 2018 (as amended)."

These standards shall be annually reviewed and, as necessary, revised to include descriptions of new, modified, or revised BMPs, including permanent BMPs and LID practices. Any revisions shall be discussed within its Annual Report and the documents included within its SWMP Plan. All documents shall be made available to the City's staff, contractors, and consultants, as appropriate.

- Part D.1.d.(2) *Inventory of construction sites.* The Permittee shall continue to implement a system to track construction activity that falls within Categories 1-5 and trenching projects. Descriptions of each category may be found in the City's "Rules Relating to Water Quality, 2018 (as amended)." This system shall track information on the project (including permit or file number, if available), status of plan review and approval, inspection dates, and if applicable, enforcement actions and whether the project has applied for coverage under HAR Chapter 11-55, Appendix C, NPDES General Permit Authorizing the Discharge of Storm Water Associated with Construction Activity (General Construction Activity Storm Water permit) (unless the project will disturb less than one acre of land) and satisfied any other applicable requirements of the NPDES permit program (i.e., an individual NPDES permit).

- Part D.1.d.(3) *Plan Review and Approval.* The Permittee shall:

- (i) Require each project owner or operator of a construction activity that falls within Categories 1-5 and trenching projects to prepare and submit to the City an "Erosion and Sediment Control Plan" to be included in the Construction Plans prior to the disturbance of land for the City's review and written approval prior to issuance of building permits (i.e., building permit, demolition

permit, and foundation permit), and site development and subdivision permits (i.e., grading, grubbing, stockpiling permit, and trenching permit). The City must inform project owners or operators of construction activities that they are prohibited from commencing construction activity until they receive receipt of written approval of the plans. If the Erosion and Sediment Control Plan is revised, the City must review and approve those revisions.

- (ii) Prior to approval of the Construction Plans, and issuance of Building Permits (i.e., building permit, demolition permit, and foundation permit) and Site Development and Subdivision Permits (i.e., grading, grubbing, stockpiling, and trenching permit), review the Erosion and Sediment Control Plan to verify that it fully meets all requirements of the City's Rules Relating to Water Quality, 2018 (as amended), as applicable, to ensure the discharge of pollutants from the site will be reduced to the MEP and will not cause or contribute to an exceedance of water quality standards.

The Storm Water Pollution Prevention Plan (SWPPP) developed pursuant to the General Construction Activity Storm Water permit may substitute for the Erosion and Sediment Control Plan for projects where a SWPPP is developed. The City is responsible for reviewing those portions of the SWPPP to comply with Part D.1.d.(1) of this Permit.

- (iii) For public projects, prior to approval of the Construction Plans, Building Permits, and Site Development and Subdivision Permits; and submittal of the NPDES Notice of Intent, if applicable, review the applicable NPDES General Permit for the discharge of storm water associated with construction activities, hydrotesting and/or dewatering effluent, to verify that the project will comply with all applicable requirements. If the public project requires an NPDES Individual Permit, prior to approval of the Construction Plans, Building Permits, and Site Development and Subdivision Permits, review the Construction Plans and any supporting documentation required as part of the City's permitting process to be at a minimum consistent with the issued NPDES Individual Permit requirements.

- (iv) Continue to implement a checklist that its reviewers shall use in evaluating the BMP Plans, including for post-construction BMPs, pursuant to this paragraph and Part D.1.e. The checklist shall include, but not be limited to, identifying any deficiencies, including a section, applicable to in-field use, for the date when the corrective actions were completed. The in-field section of the checklist shall be updated to include requiring inspectors to use the Erosion and Sediment Control/Storm Water BMP Plan or SWPPP if NPDES permit coverage is required to evaluate contractor compliance. A system shall be implemented to ensure all deficiencies, identified during the review process, have been remedied. The revised checklist shall be implemented upon submittal of the updated SWMP to DOH. Copies of this checklist shall be provided to applicants for permits and to contractors for their use in developing construction BMP Plans for City-contracted construction projects. For in-field use, a site map shall accompany the checklist which notes the locations of the deficiencies.

Part D.1.d.(4) *Permits Verification.* The Permittee shall not allow construction to commence on any private or public project until it has verified that the project has been issued all relevant City Building and Site Development and Subdivision permits and received from DOH a Notice of General Permit Coverage for the discharge of storm water associated with construction activities (unless the project will disturb less than one (1) acre of land), hydrotesting and/or dewatering effluent and satisfied any other applicable requirements of the NPDES permit program (i.e., an individual NPDES permit).

Part D.1.d.(5) *Inspections.* The Permittee shall:

- (i) Conduct inspections in accordance with the City's guidance "Inspection and Enforcement Program for Construction Sites, 2016 (as amended)," "Rules Relating to Water Quality, 2018 (as amended)" and updates accepted by DOH.
- (ii) Prior to the initiation of ground-disturbing activities at any site, except for activities associated with the installation of BMPs at a site, require an engineer or qualified inspector employed or retained by the owner of the project who reviews and becomes familiar with the project's Erosion and Sediment Control Plan or other equivalent document(s) to inspect the site to verify BMPs

as required by the Erosion and Sediment Control Plan and/or other documents have been installed correctly and in the correct locations prior to the commencement of ground-disturbing activity. Inspections shall include a review of site erosion and sediment controls, good housekeeping practices, and compliance with City-approved Erosion and Sediment Control Plans or SWPPP for public projects with NPDES permit coverage. The inspector shall also identify and remedy any additional site conditions that are potential sources of pollutants to the City's MS4 as a result of the project's construction activities.

Inspectors shall use an inspection checklist, or equivalent, and photographs to document site conditions, BMPs, and deficiencies. The Permittee shall track inspection results and document checklist information in a database or equivalent system. The checklist shall, include at a minimum, but not be limited to identifying any deficiencies and the date when the corrective actions were completed.

- (iii) Develop and implement an effective inspection oversight program for both public and private construction projects throughout the entire construction process until final completion of the project. Due to a high degree of variability among site conditions and oversight by the City, the Permittee shall use dedicated erosion and sediment control or storm water inspectors who are independent (i.e., not involved in the day-to-day planning, design, or implementation) of the construction projects to be inspected to conduct, at a minimum, monthly oversight inspections of all applicable construction projects within the City's jurisdiction. The Permittee may use more than one (1) qualified construction inspector for these inspections. The reporting procedures shall include, at a minimum, notification of any critical deficiencies to the DOH.

Construction projects that are not regulated under "The Rules Relating to Water Quality, 2018 (as amended)" and regulated projects that are completed in seven (7) calendar days or less shall be exempt from the Third-Party Inspection Program due to minimal environmental impact of these projects. In addition, the City will utilize the following rubric to determine the priority of third party inspections and their inspection frequency:

Risk Criteria	Rating
<b>1. Total Disturbed Area</b>	
a. $\geq 1$ acres	5
b. 7,500 square feet $\leq$ disturbed area $<$ 1 acre	3
c. $<$ 7,500 square feet	1
<b>2. Distance to Watercourse</b>	
a. $\leq 50$ feet	3
b. 50 feet $<$ distance to watercourse $\leq 100$ feet	2
c. $> 100$ feet	1
<b>3. Slope</b>	
a. Slope Grade $\geq 3:1$	5
b. $6:1 \leq$ Slope Grade $< 3:1$	3
c. Slope Grade $< 6:1$	1

Overall Rating	Risk Rating	Inspection Frequency
7 or greater	High	Monthly
4-6	Medium	Quarterly
3	Low	Once annually or during the life of the project, whichever comes first

Low Risk Projects: Low risk projects will be inspected as needed.

Medium Risk Projects: Medium risk projects will receive oversight inspection throughout the construction process, including the vertical phase of construction, until final completion of the project. All medium risk projects will start with quarterly inspections. After three successive quarterly inspections, the inspection frequency may decrease to annually if there are no major or critical deficiencies and less than six (6) minor deficiencies with no more than three (3) occurring in one (1) quarter. The inspection frequency returns to quarterly inspections if any annual inspection indicates at least



one (1) major or critical deficiency, or three (3) or more minor deficiencies.

High Risk Projects: High risk projects will receive oversight inspections throughout the construction process, including the vertical phase of construction, until final completion of the project. All high risk construction projects will start with monthly inspections. After three successive monthly inspections, the inspection frequency may decrease to quarterly if there are no major or critical deficiencies and less than six (6) minor deficiencies with no more than three (3) occurring in one (1) month. The inspection frequency returns to monthly inspections if any quarterly inspection indicates at least one (1) major or critical deficiency, or three (3) or more minor deficiencies.

- Minor: Minor deficiencies mean those deficiencies that do not pose a threat for discharge of untreated storm water or pollutants to the MS4, surface waters, or State waters, but are not in strict conformance with an approved ESCP.
- Major: Major deficiencies are non-critical deficiencies that indicate a lack of good-faith effort to comply with the requirements of these rules and/or those deficiencies that may reasonably be expected to result in the discharge of pollutants to the MS4 or state waters under rain conditions with a 10-year recurrence interval or less.
- Critical: Critical deficiencies are any BMP deficiencies that result in or pose an immediate threat of pollutant discharges to the MS4 or state waters. The City will also notify DOH of any critical deficiencies.

The Permittee shall use these oversight inspections to assess, at least once during the permit term, the adequacy and effectiveness of their ongoing inspection program implemented by the Department of Design and Construction (DDC), Department of Planning and Permitting (DPP) Site Development, DPP Building Division, and third-party Construction Managers for ensuring compliance with this permit. The focus of this assessment shall be on DPP Building Division and third-party Construction Managers and extend to the other Departments. Based on this assessment, improvements to the

inspection program shall be implemented and highlighted in its Annual Report.

- (iv) Category 1-5 and trenching permitted construction projects and Public Projects subject to the NPDES permit for construction activities shall be inspected at least once annually or once during the life of the project, whichever comes first, by a qualified construction inspector who is independent (i.e., not involved in the day-to-day planning, design, or implementation) of the construction projects to be inspected. The Permittee may use more than one (1) qualified construction inspector for these inspections. If the project has an Erosion and Sediment Control Plan or other equivalent document(s), the inspection shall also verify that the BMPs were properly installed and at the locations specified in the Plan. The reporting procedures shall include, at a minimum, notification of any critical deficiencies to the DOH.
- (v) Maintain records of all inspections for a minimum of five (5) years, or as otherwise indicated.

Part D.1.d.(6) *Enforcement.* The Permittee shall:

- (i) Continue to implement policies for enforcement and penalties for: those in non-compliance with its ordinances, City Permit requirements, and Part D.1.d.(1) requiring the implementation of City standards; and for contractors working on public projects in non-compliance with any applicable requirements under the NPDES permit program; and
- (ii) Continue to implement an Enforcement Response Plan (ERP) and annually review and update the ERP as necessary. The ERP shall include written procedures for appropriate corrective and enforcement actions, and follow-up inspections when an inspected project is not in full compliance with its ordinances, City Permit requirements and the implementation of City standards. The ERP shall also address procedures for appropriate corrective action and enforcement actions, and follow-up inspections for contractors working on public projects in non-compliance with any applicable requirements under the NPDES permit program.

- Part D.1.d.(7) *Process to refer noncompliance and non-filers to DOH.* In the event the Permittee has exhausted its use of sanctions and cannot bring a construction site or construction operator into compliance with its ordinances or this permit, or otherwise deems the site to pose an immediate and significant threat to water quality, the Permittee shall provide oral notification to DOH within one (1) week of such determination. Such oral notification shall be followed by written notification and a copy of all inspection checklists, notes, and related correspondence within two (2) weeks of the determination. In instances where an inspector identifies a site that has not applied for the General Construction Activity Storm Water permit coverage or any other applicable requirements of the NPDES permit program, the Permittee shall provide written notification to DOH within two (2) weeks of the discovery.
- Part D.1.d.(8) *Training.* The Permittee shall review and improve its training activities to provide annual training to employees in targeted positions (whose jobs or activities are engaged in construction activities including plan review and construction inspection staff) regarding the requirements of the updated SWMP and this permit.
- Part D.1.d.(9) *Education.* The Permittee shall continue to implement an education program to ensure that project applicants, contractors, developers, property owners, and other responsible parties have an understanding of the storm water requirements they need to implement. [Also, refer to Part D.1.a.(1).]
- Part D.1.e. Post-Construction Storm Water Management in New Development and Redevelopment
- The Permittee shall further develop, implement, and enforce a program to address storm water runoff from new development and redevelopment projects that result in a land disturbance of one (1) acre or more and smaller projects that have the potential to discharge pollutants to the City MS4. The Permittee's Land Development Program must ensure that permanent controls are in place to prevent or minimize water quality impacts to the MEP, and shall include, at a minimum, the following elements:
- Part D.1.e.(1) *Standards.* The Permittee shall continue to implement its Rules Relating to Water Quality, 2018 (as amended), addressing post-construction runoff and Low Impact Development (LID)

requirements. LID refers to storm water management practices which seek to mimic natural processes and protect water quality via infiltration, evapotranspiration or reuse of storm water runoff at the site where it was generated. LID practices retain a site's predevelopment hydrology by minimizing disturbed areas and impervious cover and then infiltrating, storing, detaining, evapotranspiring, and/or biotreating storm water runoff close to its source. The standards shall be applicable to all construction projects disturbing at least one (1) acre and smaller projects (e.g., retail gasoline outlets, automotive repair shops, restaurants, parking lots, buildings greater than 100-feet tall, retail malls, industrial parks, etc.) that have the potential to discharge pollutants to the City's MS4. LID employs principles such as preserving and recreating natural landscape features and minimizing imperviousness to create functional and appealing site drainage that treats storm water as a resource, rather than a waste product. LID treatment measures include harvesting and use, infiltration, evapotranspiration, or biotreatment. The City's standards shall continue to include at a minimum the following:

- (i) The Rules Relating to Water Quality, 2018 (as amended) shall apply to all areas within its authority under the City and County of Honolulu's jurisdiction (i.e., covering the entire Island of Oahu, including projects within Hawaii Community Development Authority – Kaka`ako Properties). Federal facilities that are required to comply with the Energy Independence and Security Act of 2007 are not considered to be within the City's jurisdiction. The Rules Relating to Water Quality shall not be limited to only those areas that drain to the City's drainage facilities or those natural drainage ways that the City has ownership and/or responsibility for;
- (ii) For projects with disturbed area one acre or more and smaller projects less than one acre in size (i.e., restaurants, gas stations, automotive repair, parking lots greater than 20 stalls, buildings over 100 feet tall, industrial parks, and retail malls), the Water Quality Rules ("Rules") will determine which of these projects would be subject to LID requirements. Specifically, the Rules provide that projects with at least 5,000 square feet of impervious surface area shall implement LID;

- (iii) For smaller projects (those with less than 5,000 square feet of impervious surface area) within the above-referenced categories, the Rules will again dictate the applicable requirements, specifically the implementation of source control BMPs as opposed to LID;
- (iv) Requiring all Priority projects to implement LID Site Design Strategies and Source Control BMPs;
- (v) Requiring Priority A and Priority B1 projects to implement LID Retention Post-Construction Treatment Control BMPs;
- (vi) Requiring management practices to be prioritized to favor infiltration, evapotranspiration, or harvesting/reuse of storm water followed by other practices that treat and release storm water. This shall also apply to alternative offsite locations;
- (vii) Requiring 1.5 times the water quality volume for any treat and release practices;
- (viii) Requiring a list of the City's preferred management practices with the intent to limit the types of City maintenance activities having to be performed;
- (ix) On-site management of the first inch of rainfall within a 24-hour period;
- (x) Feasibility criteria for circumstances in which a waiver could be granted for the LID requirements; and
- (xi) When a LID waiver is granted, require alternatives such as offsite mitigation and/or non-LID treatment control BMPs.

Part D.1.e.(2) *Review of Plans for Post-Construction BMPs.* The *Permittee* shall continue to ensure that plan reviews for new developments and redevelopments include a review for post-construction BMPs and LID requirements to ensure compliance with this part of the permit. The plans shall clearly identify if the BMPs are intended to be permanent post-construction storm water management structures. At a minimum, this will include the review of the plans for all Priority projects for post-construction BMPs and LID requirements. Project documents for projects that will include installation of permanent

post-construction BMPs and LID practices shall also include appropriate requirements for their future continued maintenance.

Part D.1.e.(3) *BMPs, Operation and Maintenance, and Inspection Database.* The Permittee shall further develop and implement an effective system to compile a database of post-construction BMPs and the frequency of maintenance and inspection of the BMPs. The database shall include both public and private activities or projects which initially discharge into the Permittee's MS4 and shall begin in the plan review stage with a database or geographic information system (GIS). The Permittee shall also map post-construction BMPs on the GIS. In addition to the standard information collected for all projects (e.g., project name, owner, location, start/end date, etc.), the tracking system shall also include, at a minimum:

- Type and number of LID practices
- Type and number of Source Control BMPs
- Type and number of Treatment Control BMPs
- Latitude/Longitude coordinates of controls using Global Positioning Systems (GPS) and NAD83 Datum
- Photographs of controls
- Operation and maintenance requirements, including frequency of inspections

Part D.1.e.(4) *Education and Training*

- (i) *Project Proponents.* The Permittee shall continue to provide education and outreach material for those parties who apply for City permits (i.e., developers, engineers, architects, consultants, construction contractors, excavators, and property owners) on the selection, design, installation, operation and maintenance of storm water BMPs, structural controls, post-construction BMPs, and LID practices. The outreach material may include a simplified flowchart for thresholds triggering permits and requirements, a list of required permits, implementing agencies, fees, overviews, timelines and a brief discussion of potential environmental impacts associated with storm water runoff.
- (ii) *Inspectors.* The Permittee shall review and improve its training activities and provide annual training to staff and those contractors under City contract responsible for inspecting permanent post-construction BMPs and LID practices.

Part D.1.f. Pollution Prevention/Good Housekeeping

The Permittee shall further continue to implement a maintenance program to reduce to the MEP the discharge of pollutants from all Permittee-owned facilities, roads, parking lots, municipal waste facilities, and the City MS4. The program shall include:

Part D.1.f.(1) Debris Control BMPs Program Plan

- (i) *Storm Water System Inventory and Mapping.* The Permittee shall continue to develop a comprehensive inventory and map of its assets, including but not be limited to its MS4, permanent BMPs (e.g., structural, vegetative, LID, etc.), Permittee-owned facilities, roads, parking lots, etc.
- (ii) *Street Sweeping.* The Permittee shall continue to perform frequent, regularly-scheduled street sweeping on all major streets, and in industrial, commercial and residential areas. At a minimum, the City shall sweep 36,000 curb miles per Fiscal Year (FY).
- (iii) *Litter.* The Permittee shall continue to perform regularly scheduled roadside litter pickup and litter container servicing.
- (iv) *Maintenance of Structural Controls.* The Permittee shall review and update its priority-based schedule for inspecting and maintaining structural controls based on findings from past inspections/maintenance activities. At a minimum, inspections of debris/boulder basins and detention/retention basins shall be performed monthly and maintained/cleaned, as necessary. Structural controls that were not previously inspected shall be inspected/cleaned within one (1) year after the effective date of this permit and placed on the priority based schedule. At a minimum all structural controls shall be inspected/cleaned once per permit term.
- (v) *Maintenance of Storm Drainage System.* The Permittee shall review and update its priority-based schedule for inspecting and maintaining storm drain lines, manholes, and inlets/catch basins based on findings from past inspections/maintenance activities. At a minimum, the City shall inspect 14,000 inlets/catch basins/FY with a minimum of 1/3 maintained/cleaned and all

inlets/catch basins shall be inspected at least once during the permit term (maintenance/cleaning may be conducted in lieu of inspections to satisfy this requirement). At a minimum, the City shall inspect 190,000 linear feet/FY of its storm drain lines with a minimum of 1/3 maintained/cleaned.

- (vi) *Action Plan for Retrofitting the Existing MS4 with Structural BMPs.* The Permittee shall:
- Continue with the implementation of the activities for Wailupe Stream, Kuliouou Stream, and Niu Stream as described on Pages 10-11 of the "Action Plan: Implementing Feasible Opportunities to Retrofit Structural BMPs," dated October 2001, and submitted to DOH on October 31, 2001, and revised plan, dated June 2012, submitted to DOH on June 22, 2012, to address retrofitting the existing MS4 with structural BMPs and provide status updates of the United State Army Corps of Engineers (USACE) projects and the City's role in those projects in each Annual Report. All structural BMPs as identified in the Action Plan, dated October 2001, for Wailupe Stream, Kuliouou Stream and Niu Stream shall be completed by June 24, 2016 [i.e., five (5) years from the effective date of its previously issued permit, dated May 24, 2011], unless reassessment of the original recommendations suggests other appropriate alternatives or if Federal funding is unavailable.
  - Continue implementing the recommendations of the report titled, "Storm Water Best Management Practices (BMP) Plan for Four Major Outlets at Kaelepupu Pond," Kailua, Hawaii, November 2008.
  - Evaluate and consider for implementation recommendations of the Final Report titled, "Watershed Based Plan for Reduction of Nonpoint Source Pollution in Wailupe Stream Watershed," dated November 2010.
  - Continue implementing the Action Plan for Retrofitting the Existing MS4 with Structural BMPs, 2017 (Action Plan). The Action Plan shall be included within the SWMP and any revisions reported in the Annual Report. The Action Plan shall identify an island-wide inventory of retrofits to be implemented, explanation on the basis for their selection and a priority based implementation schedule, including



addressing each of the bulleted items above. The inventory shall target at least 10% of the City's storm water drainage structure assets (65,204 drainage structures\*) for retrofits. Those retrofits that will significantly improve water quality shall be given highest priority. Projects that discharge to impaired waters shall target the pollutants of concern. The implementation schedule shall specify at least two (2) new projects annually to begin construction starting three (3) years after the effective date of this permit. Projects' status shall be discussed in the Annual Report. The Action Plan shall use information, not limited to results of past inspections of its MS4 to determine appropriate retrofits to be implemented. Projects to comply with any TMDL implementation or Trash Reduction plans may be included in the inventory. The Action Plan shall also include an evaluation of opportunities for retrofits within existing developed areas discharging stormwater to the MS4. "Existing developed areas" means the full urbanized area under the jurisdiction of the City, including industrial, commercial, residential and municipal lands. The evaluation shall be based on criteria to be developed by the Permittee. The evaluation shall include:

- An inventory of potential retrofit locations emphasizing LID controls in areas that may discharge pollutants of concern to impaired waterbodies;
- A list and description of retrofits projects that the permittee determines to be practicable; and
- A plan and schedule for implementation, subject to available funding, of the retrofit projects identified above.

\* Total number of structures in the Database when the Action Plan was created.

- (vii) *Trash Reduction Plan.* The Permittee shall continue to implement its Trash Reduction Plan, dated June 2012 unless required to be revised by DOH. The Trash Reduction Plan shall be included within the SWMP and any revisions reported in the Annual Report. Trash means all improperly discarded waste material, excluding vegetation, except for yard/landscaping waste that is illegally disposed of in the storm drain

system. Examples of trash include, but are not limited to, convenience food, beverage, and other product packages or containers constructed of aluminum, steel, glass, paper, plastic, and other natural and synthetic materials. The Trash Reduction Plan shall assess the issues and identify control measures to be implemented and monitoring activities to determine compliance with this permit, including, at a minimum the following:

- Plan to determine a quantitative estimate of the debris currently being discharged (baseline load) from the MS4, including methodology used to determine the load.
- Description of control measures currently being implemented as well as those needed to reduce debris discharges from the MS4 consistent with short-term and long-term reduction targets.
- A short-term plan and proposed compliance deadline for reducing debris discharges from the MS4 by 50% from the baseline load.
- A long-term plan and proposed compliance deadline for reducing debris discharges from the MS4 by 100% from the baseline load.
- Geographical targets for trash reduction activities with priority on waterbodies listed as impaired for trash on the State's CWA Section 303(d) list.
- Trash reduction-related education activities as a component of Part D.1.a.
- Integration of control measures, education and monitoring to measure progress toward reducing trash discharges.
- An implementation schedule for compliance with the short-term and long-term discharge limits in the shortest practicable timeframe.
- Monitoring plan to aid with source identification and loading patterns as well as measuring progress in reducing the debris discharges from the MS4.
- The Annual Report shall include a summary of its trash load reduction actions (control measures and best management practices) including the types of actions and levels of implementation, the total trash loads and dominant types of trash removed by its actions, and the total trash loads and dominant types of trash for each type of action.

The Permittee shall comply with the following implementation schedule as provided in its Trash Reduction Plan:

Task	Completion Date
<b>Short-Term Plan</b>	
Short-Term Reductions (meet 50% of baseline load)	6/30/2023
<b>Long-Term Plan</b>	
Implementation & Monitoring Strategy	6/30/2024
Long-Term Reductions (zero discharge/100% reduction of the baseline load)	6/30/2034

Part D.1.f.(2) Chemical Applications BMPs Program Plan

- (i) *Training* - The Permittee shall update its Authorized Use List of the chemicals the City uses and continue to implement a specific training program for all potential appliers (bulk and hand-held) of the chemicals (e.g. fertilizers, pesticides, and herbicides) in its proper storage, handling, and application. The Permittee shall not permit the application of fertilizers, pesticides, or herbicides unless the applier has first received this training.
- (ii) *Implement appropriate requirements for pesticide, herbicide, and fertilizer applications.* The Permittee shall continue to implement BMPs to reduce the contribution of pollutants associated with the application, storage, and disposal of pesticides, herbicides, and fertilizers from City areas and activities to its MS4. City areas and activities include, at a minimum, City facilities, public right-of-ways, parks, recreational facilities, public golf courses, and landscaped areas.

Such BMPs shall include, at a minimum: (1) educational activities, permits, certifications and other measures for City applicators; (2) integrated pest management measures that rely on non-chemical solutions; (3) the use of native vegetation; (4) chemical application, as needed; and (5) the collection and proper disposal of unused pesticides, herbicides, and fertilizers.

The Permittee shall ensure that their employees or contractors or employees of contractors applying registered pesticides, herbicides, and fertilizers shall work under the direction of a certified applicator, follow the pesticide label, and comply with any other State, City, or government regulations for pesticides, herbicides, and fertilizers.

Part D.1.f.(3) Erosion Control BMPs Program Plan

- (i) The Permittee shall continue to address erosional areas in its SWMP with the potential for significant water quality impact, but with limited public safety concerns. The Permittee shall review and update, as necessary, its island-wide inventory of erosional areas and priority based schedule for remediation. The schedule shall have a deadline of June 30, 2034, to complete all remediation work as identified in its initial inventory of erosional areas or earlier within the earliest possible timeframe. Following completion of its initial inventory, the Permittee shall annually update its inventory with any newly identified erosional areas and update its priority based schedule. The updated inventory and schedule shall be included in the Annual Report. The remediation of erosional areas identified after the initial inventory shall be completed as soon as practicable, following the erosional area being identified. Identification of erosional areas with the potential for significant water quality impact shall include areas where there is evidence of rilling, gullying, and/or other evidence of significant sediment transport, and areas in close proximity to receiving waters listed as impaired by either sediment, siltation and/or turbidity. The Permittee shall continue to include in its SWMP its prioritization criteria.
- (ii) Temporary Erosion Control Measures are required on erosional areas within the City's rights-of-ways with the potential for significant water quality impact if permanent solutions are not immediately possible. The Permittee is required to have completed implementation of temporary Erosion Control Measures (e.g., erosion control blankets and/or fabrics, gravel bag placement and silt fencing/fiber rolls) for erosional areas that have already been identified (i.e., before the effective date of this permit). The Permittee shall implement temporary Erosion Control Measures within one (1) year of the Permittee identifying any new erosional area. After the new erosional area

is identified, it shall be added to the inventory and priority based schedule within the same FY. A schedule for completion of the temporary erosion control measures shall be included in the Annual Report. The Permittee may implement permanent Erosion Control Measures in lieu of temporary measures to comply with this requirement. For projects which require a CWA Section 401 Water Quality Certification (WQC), the WQC application shall be submitted to DOH within one (1) year of identifying the new erosional area and commence construction within six (6) months of the WQC or other regulatory permit(s) issuance date.

- (iii) The Permittee shall update, as necessary and continue implementing its Maintenance Plan for Vegetated Portions of the Drainage System used for erosion and sediment control, including controlling any excessive clearing/removal, cutting of vegetation, and application of herbicide which affects its usefulness. This plan shall be included in the SWMP and annual training shall be provided to those with landscaping and drainage system maintenance responsibilities.
- (iv) The Permittee shall continue to implement a program to prevent erosion at or immediately downstream of its storm drain system outlets. The Permittee shall install velocity dissipaters or other BMPs to reduce erosion at these locations. Results of Field Screening activities (refer to Part D.1.c.[3]) shall also be used to determine where erosion control measures must be implemented. The locations shall be accounted for in its inventory of erosional areas and in its priority based schedule for remediation.

Part D.1.f.(4) City Maintenance Activities Program Plan

- (i) *BMPs for City maintenance activities.* The Permittee shall implement the BMPs as identified in the "Municipal Field Guide" (Field Guide) for all City maintenance activities. Examples of such activities include, but are not limited to: patching, resurfacing and surface sealing; pavement marking; sidewalk, gutter and curb repair; street sweeping, pesticide and fertilizer application, grass cutting, leaf blower, vehicle and equipment maintenance, catch basin cleaning, etc. The Field Guide shall be updated as necessary or at least once per permit term.
- (ii) *Training.* The Permittee shall update, if necessary and continue to provide annual training to staff on proper City maintenance activities to prevent storm water pollution. The training shall cover the Field Guide developed under Part D.1.f.(4)(i) and the SWPCP, specific to facility and the staff at the facility.

Part D.1.g. Industrial and Commercial Activities Discharge Management Program

The Permittee shall update, as necessary and continue to implement an industrial and commercial discharge management program to reduce to the MEP the discharge of pollutants from all industrial and commercial facilities and activities which initially discharge into the Permittee's MS4. For this permit, industrial activities include those activities that do not require NPDES permit coverage but are potential significant sources of pollutants. At a minimum, the program shall include:

- Part D.1.g.(1) *Approval for Drainage Connections and Storm Water Discharge and Requirement to Implement BMPs* – CCH shall require a permit or written equivalent approval for drainage connections from industrial and commercial facilities and for storm water discharges into the MS4 from industrial facilities subject to an NPDES Permit, and maintain a database of such permits/approvals. Such permit/approval shall obligate those industrial and commercial facilities to implement BMPs to ensure that there is no discharge of pollutants.

The City will gather information on commercial and industrial facilities in accordance with its Industrial and Commercial Inspections Prioritization Plan, which may be revised from time to time, and identify those facilities that pose a high risk of illicitly discharging

pollutants to the MS4. For those facilities CCH identified as being high risk, CCH shall conduct wet weather inspections over the permit term to determine whether the subject facility discharges pollutants to the MS4. For those facilities CCH identifies as illicitly discharging pollutants to the MS4, CCH shall implement its Enforcement Policy for Industrial and Commercial Facilities and Activities and require implementation of BMPs to prevent future illicit discharges of pollutants.

Part D.1.g.(2)

*Inventory and Map of Industrial Facilities and Activities.* The Permittee shall update and submit the industrial facilities and activities inventory (industrial inventory), sorted by TMK, and map of such facilities and activities discharging, directly or indirectly, to its MS4 within the 4<sup>th</sup> year Annual Report. The industrial inventory update may be based on the following:

- Available information about parcel owners from the City and the State; and/or
- Collection of new information obtained during field activities or through other readily available intra-agency informational databases (e.g., business licenses, pretreatment permits, sanitary sewer hook-up permits).

The industrial inventory shall include the facility name, street address, TMK, nature of business or activity, Standard Industrial Classification (SIC) code(s) that best reflect the facility product or service, principal storm water contact, receiving State water, and whether a Notice of General Permit Coverage (NGPC) under HAR Chapter 11-55, Appendix B, NPDES General Permit Authorizing the Discharge of Storm Water Associated with Industrial Activities (General Industrial Storm Water permit) or any other applicable NPDES permit has been obtained, including a permit or file number and issuance date.

At a minimum, the industrial inventory shall include facilities and activities such as:

- Municipal Landfills (open and closed)
- Hazardous waste recovery, treatment, storage and disposal facilities
- Facilities subject to Section 313 of the Emergency Planning and Community Right-to-Know Act, 42 U.S.C. 11023

- Facilities subject to General Industrial Storm Water permit coverage or any other applicable NPDES permit coverage
- And any other industrial facility that either the Permittee or DOH determines is contributing a substantial pollutant loading to the City MS4.

Part D.1.g.(3)

*Inventory and Map of Commercial Facilities and Activities.* The Permittee shall update and submit the commercial facilities and activities inventory (commercial inventory), sorted by priority areas, and map of such facilities and activities discharging, directly or indirectly, to its MS4 within the 4<sup>th</sup> year Annual Report. The commercial inventory update may be based on the following:

- Available information about parcel owners from the City and the State; and/or
- Collection of new information obtained during field activities or through other readily available intra-agency informational databases (e.g., business licenses, pretreatment permits, sanitary sewer hook-up permits).

The commercial inventory shall include, by priority area, the facility name, street address, TMK, nature of business or activity, SIC code(s) that best reflect the facility product(s) or service(s), principal storm water contact, and receiving State water.

At a minimum, the commercial inventory shall include facilities and activities such as:

- Retail Gasoline Outlets
- Retail Automotive Services, including Repair Facilities
- Restaurants
- Any other commercial facility that either the Permittee or DOH determines is contributing pollutants to the City MS4 that may cause or contribute to an exceedance of State water quality standards

Part D.1.g.(4)

*Prioritized Areas for Industrial and Commercial Facility and Activity Inspections.* The Permittee shall annually review, update, if necessary, and implement the plan, which designates priority areas for industrial and commercial facility and activity inspections. The prioritized area plan shall take into account the number of industrial and commercial facilities in the area, the density of these facilities,



previous inspections and storm water violations in the area, and if the receiving water is on the State's CWA Section 303(d) list or a TMDL has been approved by the EPA and adopted by the State. The plan shall identify priority areas and set a schedule for inspections within each area over the duration of this permit. The prioritized area plan shall be included within the SWMP and any revisions reported in the Annual Report.

Part D.1.g.(5) *Inspection of Industrial and Commercial Facilities and Activities*

The industrial/commercial inspection program shall continue to be implemented and updated as appropriate to reflect the outcomes of the investigations discussed in the following paragraphs.

The Permittee shall ensure that at a combined minimum of 400 industrial and commercial facilities and activities identified in the industrial and commercial inventories required under Parts D.1.g.(2) and D.1.g.(3) are inspected annually. Inspectors shall determine compliance with local ordinances and the terms of this permit. If DOH inspects a facility for compliance with the General Industrial Storm Water permit coverage or any other applicable NPDES permit, then the Permittee does not need to inspect the facility that year. If a facility requires more than one inspection, each subsequent reinspection performed shall count towards the 400 required inspections.

All industrial facilities within a prioritized area shall be inspected in accordance with the applicable portions of the "NPDES Compliance Inspection Manual" (EPA 305-X-04-001), dated July 2004. The Permittee shall submit semi-annual inspection report(s) to the DOH by October 31<sup>st</sup> and April 30<sup>th</sup> for inspections done within the previous period via the CWB's e-Permitting Portal. The Permittee shall also inspect commercial facilities in the prioritized area to ensure compliance with local ordinances and the terms of this permit.

Inspections must consist of a review of implementation of BMPs for compliance with local ordinances and this permit to assess potential impacts to receiving waters. Inspections shall also assess potential sources of pollutants to the City MS4 and require the implementation of controls to prevent the discharge of pollutants to the City's MS4.

Inspectors shall be trained to identify deficiencies, assess potential impacts to receiving waters, and evaluate the appropriateness and effectiveness of deployed BMPs and SWPCPs, if applicable.

The inspectors shall use an inspection checklist, or equivalent, and photographs to document site conditions and BMPs conditions.

Records of all inspections shall be maintained for a minimum of five (5) years, or as otherwise indicated.

Part D.1.g.(6)

*Enforcement Policy for Industrial Facilities and Activities.* The Permittee shall continue to implement its enforcement policy for industrial or commercial facilities which have failed to comply with local ordinances and/or terms of this permit. The policy shall be part of the overall escalating enforcement policy and must consist of the following:

- Issuance of written documentation to a facility representative within two (2) weeks of storm water deficiencies identified during inspection. Documentation must include copies of all field notes, correspondence, photographs, and sampling results if applicable.
- A timeline for correction of the deficiencies.
- Provisions for re-inspection and potential enforcement actions, if necessary.

In the event the Permittee has exhausted all available sanctions and cannot bring a facility or activity into compliance with local ordinances and this permit, or otherwise deems the facility or activity an immediate and significant threat to water quality, the Permittee shall provide email notification to DOH within one (1) week of such determination. Email notification shall be followed by an electronic copy on CD/DVD in pdf format (300 minimum dpi) of all inspection checklists, notes, photographs, and related correspondence within two (2) weeks of the determination. In instances where an inspector identifies a facility that has not applied for the General Industrial Storm Water permit coverage or any other applicable NPDES permit, the Permittee shall provide email notification to DOH within one (1) week of such determination.

- Part D.1.g.(7) *Training.* The Permittee shall continue to provide annual training to staff on how to conduct industrial and commercial inspections, the types of facilities covered by the General Industrial Storm Water permit coverage or any other applicable NPDES permit, elements in an SWPCP for industrial facilities, BMPs and source control measures for industrial and commercial facilities, and inspection and enforcement techniques. Any updates to the Training shall be discussed in its Annual Reports.
- Part D.2. Revise the SWMP, as necessary, if any discharge limitation or water quality standard established in HAR Section 11-54-4 is exceeded. The revisions shall include BMPs and/or other measures to reduce the amount of pollutants found to be in exceedance from entering State Waters. The Permittee shall report and provide rationale for these BMPs and/or other measures in the Annual Report.
- Part D.3. Properly address all modifications, concerns, requests, and/or comments to the satisfaction of the DOH.
- Part D.3.a. SWMP Modifications. The storm water pollution control activities described in the SWMP may need to be modified, revised, or amended from time to time over the life of the permit to respond to changed conditions and to incorporate more effective approaches to pollutant control. Minor changes may be proposed by the Permittee or requested by the DOH. Proposed changes that imply a major reduction in the overall scope and/or level of effort of the SWMP must be made for cause and in compliance with 40 CFR §122.62 and Part 124. A written report shall be submitted to the Director of Health (Director) for acceptance at least 30 calendar days prior to the initiation date of the major modification. The Permittee shall report and justify all other modifications made to the SWMP in the annual report for the year in which the modification was made.
- Part D.3.b. System Modifications include any planned physical alterations or additions to the permitted separate storm sewer system and any existing outfalls newly identified over the term of the permit. All alterations and/or additions to the City MS4 shall be indicated in the Annual Report. Major alterations and/or additions shall be identified by letter within 30 calendar days of the completion of the alteration and/or addition.

**Part E. CITY INDUSTRIAL AND OTHER FACILITIES**

Part E.1. The Permittee shall continue to implement SWPCPs for facilities listed in Table 1 of this permit. The SWPCPs shall identify site-specific BMPs and be user-friendly for facility personnel. SWPCPs shall include the following:

- (1) Brief facility description;
- (2) Site map identifying the locations of drainage structures; outline of each drainage area; paved areas and buildings and other ground cover within each drainage area; each past or present area for outdoor storage, industrial activities, or disposal of materials; each past or present area of a significant spill (as identified in Parts E.1.(5) and E.1.(6) of this permit); structural measures for the control of storm water; material loading and access areas; areas where pesticides, herbicides, soil conditioners and fertilizers are applied; hazardous waste storage or disposal areas or both; underground injection wells; sampling locations, outfall locations; and the nearest receiving state water(s);
- (3) Pollutant control strategy identifying potential pollutants, pollutant sources, and control strategies used to minimize the discharge of pollutants. The permittee shall consider the use of containment structures, covering materials by roof or tarpaulin, preventive maintenance, good housekeeping measures, waste minimization, removal of exposed pollutants, and spill prevention practices;
- (4) Spill prevention and response plan that identifies spill prevention and response measures and facility personnel responsible for its implementation and conforms with the reporting requirements. Responsible personnel shall be available at all times when the facility is in operation;
- (5) Existing information regarding significant leaks or spills of toxic or hazardous pollutants at the facility that have taken place within the five years before the submittal of this storm water pollution control plan;
- (6) Existing information regarding any discharge of storm water resulting in the discharge of a reportable quantity for which notification is or was required under 40 CFR §110.6 at anytime since November 16, 1987;

- (7) Storm water monitoring plan that includes the following:
- (A) Rationale for selecting sampling locations. Where two or more outfalls are expected, based on the features and activities within the drainage areas, to convey substantially similar storm water discharges, the permittee may request to monitor only one of those outfalls. The director may approve the request if the permittee demonstrates that the outfalls monitored are representative for the overall storm water discharges from the facility. The justification for the outfall sampling locations chosen shall be incorporated into the monitoring plan. The permittee shall sample for all potentially present pollutants as identified in the notice of intent; as listed in Federal Register, Vol. 73, No. 189, pages 56572–56578, dated September 29, 2008; or the storm water pollution control plan;
  - (B) Sample collection methods, including quality assurance/quality control methods;
  - (C) List of parameters to be monitored;
  - (D) Type of sample to be taken for each parameter to be monitored;
  - (E) Test procedures to be used for each parameter to be monitored;
  - (F) Detection limit for each test procedure;
  - (G) Method to calculate storm water flow;
  - (H) Procedures to collect storm event information, including the date, duration, and starting and ending times of the storm event, and the duration between the storm event and the end of the previous rainfall event with rainfall greater than 0.1 inches; and
  - (I) Procedures to inspect receiving state waters, storm water runoff, control measures, and best management practices to detect violations of the basic water quality criteria as specified in section 11-54-4.
- (8) Procedures for implementing, reviewing, and updating the storm water pollution control plan including:

- (A) Annual employee education or training program that ensures the storm water pollution control plan will be properly implemented;
- (B) Protocol for that ensures the pollutant control strategy and the spill prevention and response plan are being effectively carried out; and
- (C) Documentation procedures for all inspections and reviews required in the storm water pollution control plan.

Part E.2. The permittee shall retain the storm water pollution control plan, and all subsequent revisions, on-site or at a nearby office.

Part E.3. The permittee shall conduct facility inspections as specified in Federal Register, Vol. 73, No. 189, pages 56572–56578, dated September 29, 2008; to ensure that the storm water pollution control plan remains effective. Otherwise, the permittee shall conduct facility inspections at least semi-annually. The permittee shall maintain a record of the following:

- (1) Dates on which inspections were conducted;
- (2) Inspection findings; and
- (3) Corrective actions taken.

Part E.4. The permittee shall review and update the storm water pollution control plan as often as needed to minimize the discharge of pollutants in storm water to comply with Part B.4. Part C., or as required by the DOH. The permittee shall document and report any changes to the storm water pollution control plan to the DOH within thirty days of when the changes arise. The permittee shall retain the storm water pollution control plan and all accompanying records, reports, and changes, for a period of at least five years after the expiration of this permit.

Part E.5. The Permittee shall continue regular coordination and storm water quality data sharing between Departments with facilities having SWPCPs and with DFM.

**Part F. MONITORING REQUIREMENTS**

Part F.1. Annual Monitoring Plan

Part F.1.a. The Permittee shall submit the Annual Monitoring Plan to the Director by June 1st of each year for review and acceptance. The Annual Monitoring Plan shall be implemented over the coming fiscal year.

The monitoring program must be designed and implemented to meet the following objectives:

Part F.1.a.(1) Assess compliance with this permit (including TMDL I&M Plans and compliance with Wasteload Allocations);

Part F.1.a.(2) Measure the effectiveness of the Permittee's storm water management plan;

Part F.1.a.(3) Assess the overall health based on the chemical, physical, and biological impacts to receiving waters resulting from storm water discharges and an evaluation of the long term trends;

Part F.1.a.(4) Characterize storm water discharges from MS4;

Part F.1.a.(5) Identify sources of specific pollutants;

Part F.1.a.(6) Detect and eliminate illicit discharges and illegal connections to the MS4; and

Part F.1.a.(7) Assess the water quality issues in each watershed resulting from storm water discharges from the City's MS4.

Part F.1.b. The plan shall, at a minimum, include the following items:

Part F.1.b.(1) Written narrative of the proposed monitoring plan's objectives, including but not limited to the objectives as identified in Part F.1.a., and description of activities;

Part F.1.b.(2) For each activity, a description of how the results will be used to determine compliance with this permit;

- Part F.1.b.(3) Written documentation of a plan to collect the following:
- (i) Rainfall and flow characteristics (timing, duration, intensity, total rainfall) of the storm event(s), as applicable;
  - (ii) Water quality parameters to be tested; and
  - (iii) Flows to be monitored (i.e., wet weather, dry weather, or annual).
- Part F.1.b.(4) Written documentation of the analytical methods to be used;
- Part F.1.b.(5) Written documentation of the Quality Assurance/Quality Control procedures to be used; and
- Part F.1.b.(6) Estimated budget to be implemented over the coming fiscal year.

**Part F.2. Storm Water Associated with Industrial Activities**

The Permittee shall develop a priority based monitoring schedule for each type of Industrial Facility with the highest priority for facilities with the greatest potential of pollutant discharge. The facilities ranked first within each type shall be annually monitored as other facilities (based on priority), within the same type, are monitored on a rotational basis [i.e., at least two (2) facilities monitored per year per type]. Facilities which exceed any of the limitations are required to continue to monitor within 30 calendar days (or during the next qualifying runoff event, should none occur within 30 calendar days). If parameters continue to exceed in this follow-up monitoring, the facilities will continue to monitor quarterly until limitations are met, unless as otherwise informed by DOH. For facilities required to be re-sampled because of a previous exceedance or by request to the Director (on a case by case basis) for facilities which are required to be annually monitored (e.g., wastewater treatment plants), the Permittee may have the option of implementing/installing structural BMP(s) during that year in lieu of sampling. The BMP(s) shall be selected based on targeting the pollutant(s) which were exceeded. The total cost of the BMP implementation shall not be less than the cost of the sampling. Sampling shall continue for the year after which BMPs were installed to measure the effectiveness of the BMPs. The Permittee will not be granted consecutive year BMP implementation in lieu of sampling. The Permittee shall monitor for the parameters as specified below, including any additional parameters, which the Permittee believes to be present in



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the storm water runoff and the results reported on the Discharge Monitoring Report (DMR) Form.

<b>Effluent Parameter (units)</b>	<b>Effluent Limitation {1}</b>	<b>Type of Sample {2}</b>
Flow (gallons)	{4}	Calculated or Estimated
Biochemical Oxygen Demand (5-Day) (mg/l)	{4}	Composite {3}
Chemical Oxygen Demand (mg/l)	{4}	Composite {3}
Total Suspended Solids (mg/l)	{4}	Composite {3}
Total Phosphorus (mg/l)	{4}	Composite {3}
Total Nitrogen (mg/l) {5}	{4}	Composite {3}
Nitrate + Nitrite Nitrogen (mg/l)	{4}	Composite {3}
Oil and Grease (mg/l)	15	Grab {6}
pH Range (Standard Units)	{9} 5.5-8.0 {10} 7.6-8.6 {11}	Grab {7}
Ammonia Nitrogen (mg/l)	{4}	Composite
Turbidity (0.1 NTU)	{4}	Grab
Dissolved Oxygen (0.1 mg/l)	{4}	Grab
Oxygen Saturation (1%)	{4}	Grab
Temperature (0.1 °C)	{4}	Grab
Salinity (0.1 ppt)	{4}	Grab

Annual monitoring shall continue to be required at the wastewater treatment plants and closed sanitary landfills. Additional monitoring requirements for those Industrial Facilities are indicated below:

**Wastewater Treatment Plants**

<b>Effluent Parameter (units)</b>	<b>Effluent Limitation {1}</b>	<b>Type of Sample {2}</b>
Copper (µg/l) {8}	6.0 {12} 2.9 {13}	Composite {3}
Zinc (µg/l) {8}	22 {12} 95 {13}	Composite {3}

**Refuse – Closed Landfills**

<b>Effluent Parameter (units)</b>	<b>Effluent Limitation {1}</b>	<b>Type of Sample {2}</b>
Iron (µg/l) {8}	1,000	Composite {3}

mg/l = milligrams per liter = 1000 micrograms per liter (µg/l)

**NOTES:**

{1} Pollutant concentration levels shall not exceed the storm water discharge limits or be outside the ranges indicated in the table. Actual or measured levels which exceed those storm water discharge limits or are outside those ranges shall be reported to the CWB.

{2} The Permittee shall collect samples for analysis from a discharge resulting from a representative storm. A representative storm means a rainfall that accumulates more than 0.1 inch of rain and occurs at least 72 hours after the previous measurable (greater than 0.1 inch) rainfall event.

“Grab sample” means a sample collected during the first 15 minutes of the discharge.

“Composite sample” means a combination of at least two (2) sample aliquots of equal volume, collected during the first 15 minutes of the discharge and at 15-minute intervals thereafter for the duration of the discharge, as applicable. If the discharge lasts for over an hour, sample collection may cease.

{3} If the duration of the discharge event is less than 30 minutes, the sample collected during the first 15 minutes of the discharge shall be analyzed as a grab sample and reported toward the fulfillment of this

composite sample specification. If the duration of the discharge event is greater than 30 minutes, the Permittee shall analyze two (2) or more sample aliquots as a composite sample.

- {4} The value shall not exceed the applicable not to exceed the given value more than ten percent of the time for discharges that occur 10 percent of the time or more per calendar year for the wet or dry season limit as specified in Chapter 11-54 for the applicable classification of the receiving state waters. For facilities where discharges occur less than 10 percent of the time per calendar year, the value shall not exceed the applicable not to exceed the given value more than two percent of the time for the wet or dry season limit as specified in Chapter 11-54 for the applicable classification of the receiving state waters. If no limitation is specified in Chapter 11-54, then the permittee shall monitor and report the analytical result. The department may include discharge limitations specified in Section 11-55-19 and discharge limitations based on Federal Register, Vol. 73, No. 189, pages 56572–56578, dated September 29, 2008.
- {5} The Total Nitrogen parameter is a measure of all nitrogen compounds in the sample (nitrate, nitrite, ammonia, dissolved organic nitrogen, and organic matter present as particulates).
- {6} The Permittee shall measure Oil and Grease using EPA Method 1664, Revision A.
- {7} The Permittee shall measure pH within 15 minutes of obtaining the grab sample.
- {8} The Permittee shall test for the dissolved portion of all metals. If monitoring results indicate that the discharge limitation was equaled or exceeded, the SWPCP shall be amended to include additional BMPs targeted to reduce the parameter which was in excess of the discharge limitation.
- {9} There is no discharge limitation at this time for discharges into Nuupia Pond and Kawainui Marsh. The Permittee shall report only.
- {10} This limitation applies to discharge into state waters classified as inland streams.

{11} This limitation applies to discharge into state waters classified as marine open coastal waters.

{12} This limitation applies to discharge into freshwater.

{13} This limitation applies to discharge into saltwater.

Part F.3. TMDL Implementation and Monitoring for Ala Wai Canal, Kawa Stream, Waimanalo Stream, Kapaa Stream, Kaneohe Stream, North Fork of Kaukonahua Stream, and Waikele Stream.

Part F.3.a. The Permittee shall implement the TMDL I&M Plans based on the requirement of this permit for Kaneohe Stream, Ala Wai Canal, Kawa Stream, Waimanalo Stream, Kapaa Stream, North Fork of Kaukonahua Stream, and Waikele Stream. The plans shall include at a minimum the following:

Part F.3.a.(1) Detailed information on the activities proposed to be implemented.

Part F.3.a.(2) Actual or literature documentation of the estimated effectiveness of the activities targeted to reduce the pollutants of concern such as total nitrogen, total phosphorus, and Total Suspended Solids in the Watershed, as applicable, to comply with the WLAs.

Part F.3.a.(3) A detailed and quantitative analysis which demonstrates that the proposed activities would ensure consistency with the WLAs.

Part F.3.a.(4) Description of the pre, if applicable and post monitoring activities to quantitatively demonstrate consistency with the WLAs. Pre monitoring is required when monitoring end-of-pipe and compliance is based on reductions.

Part F.3.a.(5) An end-of-pipe monitoring plan shall be required if the development of the TMDL was based on actual end-of-pipe monitoring data. If required, the monitoring plan shall identify representative outfalls within its respective watershed to be monitored, rationale for selecting those outfalls, and description of the water quality monitoring activities to demonstrate consistency with the WLAs.

Part F.3.b. The Permittee shall comply with the following annual or seasonal WLA reductions consistent with the assumptions of the associated TMDL document effective in accordance with the Schedules of Compliance in Part F.3.c.

Part F.3.b.(1) Ala Wai Canal WLA Reductions

The City's MS4 services 4,939 acres of the total 5,573 urban land use (approximately 88.6%). Therefore, the City's annual reduction requirement is based on 88.6% of the total urban source WLA as follows:

**Total Nitrogen (TN) Reduction = 3,605 kg/yr**  
**Total Phosphorus (TP) Reduction = 1,294 kg/yr**

Part F.3.b.(2) Kawa Stream WLA Reductions

From TMDL Table 11.1. Load Reductions Required to Achieve Kawa Stream TMDLs

	Existing Loads (kg/yr)			Reductions					
	TSS	TN	TP	TSS		TN		TP	
				(kg/yr)	(%)	(kg/yr)	(%)	(kg/yr)	(%)
DFM (MS4)	19,515	535	130	<b>7,520</b>	39	<b>358</b>	67	<b>69</b>	53
DPR (MS4)*	24	1	0	<b>9</b>	38	<b>1</b>	100	<b>0</b>	0

\* - Required reductions for DPR maybe achieved through efforts from DFM.

Part F.3.b.(3) Kapaa Stream WLA Reductions

DFM (MS4)*			
Season	TSS (kg per season)	TN (kg per season)	TP (kg per season)
Wet Season Reduction	<b>1,647</b>	<b>1.8</b>	<b>3.6</b>
Dry Season Reduction	<b>0</b>	<b>0</b>	<b>0</b>

\* - Required reductions for DFM maybe achieved through efforts from ENV.  
Wet Season = 181 days (November 1 – April 30)  
Dry Season = 184 days (May 1 – October 31)

ENV Kalaheo Closed Sanitary Landfill (Industrial Facility)*			
Season	TSS (kg per season)	TN (kg per season)	TP (kg per season)
Wet Season Reduction	<b>0</b>	<b>0</b>	<b>0</b>
Dry Season Reduction	<b>0</b>	<b>0</b>	<b>0</b>

\* - Required reductions for ENV maybe achieved through efforts from DFM.  
Wet Season = 181 days (November 1 – April 30)  
Dry Season = 184 days (May 1 – October 31)

ENV Kapaa Closed Sanitary Landfill (Industrial Facility)*			
Season	TSS (kg per season)	TN (kg per season)	TP (kg per season)
Wet Season Reduction	<b>16,037</b>	<b>18.1</b>	<b>5.4</b>
Dry Season Reduction	<b>0</b>	<b>0</b>	<b>0</b>

\* - Required reductions for ENV maybe achieved through efforts from DFM.  
Wet Season = 181 days (November 1 – April 30)  
Dry Season = 184 days (May 1 – October 31)

Part F.3.b.(4) Kaneohe Stream WLA Reductions

Season	TSS (kg per season)	TN (kg per season)	TP (kg per season)
Wet Season Reduction	<b>0</b>	<b>43.26</b>	<b>17.92</b>
Dry Season Reduction	<b>0</b>	<b>2.94</b>	<b>2.39</b>

Wet Season = 181 days (November 1 – April 30)  
Dry Season = 184 days (May 1 – October 31)

Part F.3.b.(5) Waimanalo Stream WLA Reductions

Season	TSS (kg per season)	TN (kg per season)	TP (kg per season)
Wet Season Reduction	<b>0</b>	<b>18.52</b>	<b>0.34</b>
Dry Season Reduction	<b>0</b>	<b>1.02</b>	<b>0.23</b>

Wet Season = 181 days (November 1 – April 30)

Dry Season = 184 days (May 1 – October 31)

Part F.3.b.(6) North Fork Kaukonahua Stream WLA Reductions

Season	Turbidity (NTU-tons per season)	TN (lbs per season)
Wet Season Reduction	<b>0</b>	<b>25</b>
Dry Season Reduction	<b>0</b>	<b>n/a</b>

Wet Season = 181 days (November 1 – April 30)

Dry Season = 184 days (May 1 – October 31)

Part F.3.b.(7) Waialeale Stream WLA Reductions

CCH MS4	TN	
	Wet	Dry
Existing Load, kgd	6.96	3.72
WLA to CCH MS4, kgd	1.13	0.38
Reduction Required, kgd	5.83	3.34
No. of Events per season	90.5	92
Reduction Required, kg/season	<b>528</b>	<b>307</b>

Dry Season # of events (184 days) \* 50% = 92 days

Wet Season # of events (181 days) \* 50% = 90.5 days

CCH MS4	TSS
	Wet
Existing Load, kgd	3,686.8
WLA to CCH MS4, kgd	185.8
Reduction Required, kgd	3,501
No. of Events per season	18.1
Reduction Required, kg/wet season	<b>63,368</b>

Wet Season # of events = 181 days \* 10% = 18.1 days

Part F.3.c. TMDL Schedules of Compliance - The Permittee is required to provide proof of completion of each milestone and submittal of the deliverable by the date as indicated in the following tables. The Permittee shall comply with the WLA reductions consistent with the assumptions of the applicable TMDL document as soon as possible, but no later than by the Final Compliance Date. As soon as possible means that if milestones/deliverable can be completed/submitted before the due date the Permittee shall do so and continue on to the next task to comply with the WLA reductions within the earliest possible timeframe. At no point shall the Permittee delay completing any milestone/deliverable to keep on schedule.

Part F.3.c.(1) Ala Wai Canal

Due No Later Than:	Milestone / Deliverable
December 31, 2020	<ul style="list-style-type: none"> <li>• Based on street sweeping pilot study results and evaluation of GH numerical tracking, evaluate trends to determine if reductions are sustainable; determine if alternative metrics are suitable to determine compliance or if numerical tracking is still required</li> <li>• Initiate preliminary watershed planning study for additional activities necessary to achieve permit compliance</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2021	<ul style="list-style-type: none"> <li>• Continue preliminary watershed planning study and permitting for additional activities</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>



Due No Later Than:	Milestone / Deliverable
December 31, 2022	<ul style="list-style-type: none"> <li>• Submit revised I&amp;M Plan which outlines additional activities to be implemented, if applicable<sup>1</sup></li> <li>• Initiate conceptual design, planning, and permitting for Phase I additional activities, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2023	<ul style="list-style-type: none"> <li>• Continue preliminary design, planning, and permitting for Phase I additional activities, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2024	<ul style="list-style-type: none"> <li>• Continue final design, planning, and permitting for Phase I additional activities, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2025	<ul style="list-style-type: none"> <li>• Advertise and award project(s) – Phase I, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2026	<ul style="list-style-type: none"> <li>• Continue construction of Phase I project(s), as applicable</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2027	<ul style="list-style-type: none"> <li>• Complete construction of Phase I project(s) and initiate 1-year of monitoring to estimate quantity of pollutant removal. Monitoring may include visual observations, sampling, or if applicable, use of literature data to estimate reductions</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2028	<ul style="list-style-type: none"> <li>• Complete Phase I project(s) monitoring analysis to estimate quantity of pollutant removal</li> <li>• Initiate conceptual design, planning, and permitting for Phase II additional activities, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2029	<ul style="list-style-type: none"> <li>• Continue final design, planning, and permitting for Phase II additional activities, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2030	<ul style="list-style-type: none"> <li>• Advertise and award project(s) – Phase II, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>

<b>Due No Later Than:</b>	<b>Milestone / Deliverable</b>
December 31, 2031	<ul style="list-style-type: none"> <li>• Continue construction of Phase II project(s), as applicable</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2032	<ul style="list-style-type: none"> <li>• Complete construction of Phase II project(s) and initiate 1-year of monitoring to estimate quantity of pollutant removal. Monitoring may include visual observations, sampling, or if applicable, use of literature data to estimate reductions</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2033	<ul style="list-style-type: none"> <li>• Complete Phase II project(s) monitoring analysis to estimate quantity of pollutant removal</li> <li>• Initiate conceptual design, planning, and permitting for Phase III additional activities, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2034	<ul style="list-style-type: none"> <li>• Continue final design, planning, and permitting for Phase III additional activities, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2035	<ul style="list-style-type: none"> <li>• Advertise and award project(s) – Phase III, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2036	<ul style="list-style-type: none"> <li>• Continue construction of Phase III project(s), as applicable</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2037	<ul style="list-style-type: none"> <li>• Complete construction of Phase III project(s) and initiate 1-year of monitoring to estimate quantity of pollutant removal. Monitoring may include visual observations, sampling, or if applicable, use of literature data to estimate reductions</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2038	<ul style="list-style-type: none"> <li>• Complete Phase III project(s) monitoring analysis to estimate quantity of pollutant removal</li> <li>• Initiate conceptual design, planning, and permitting for Phase IV additional activities, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>

<b>Due No Later Than:</b>	<b>Milestone / Deliverable</b>
December 31, 2039	<ul style="list-style-type: none"> <li>• Continue final design, planning, and permitting for Phase IV additional activities, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2040	<ul style="list-style-type: none"> <li>• Advertise and award project(s) – Phase IV, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2041	<ul style="list-style-type: none"> <li>• Continue construction of Phase IV project(s), as applicable</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2042	<ul style="list-style-type: none"> <li>• Complete construction of Phase IV project(s) and initiate 1-year of monitoring to estimate quantity of pollutant removal. Monitoring may include visual observations, sampling, or if applicable, use of literature data to estimate reductions</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2043	<ul style="list-style-type: none"> <li>• Complete analysis of monitoring data to determine basic level of activities necessary and determine if alternative metrics are suitable to determine compliance or if numerical tracking is still required</li> <li>• If additional activities are required, submit revised I&amp;M Plan which outlines additional activities to be implemented<sup>1</sup> and continue numerical tracking</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2044	<p style="text-align: center;"><b>FINAL COMPLIANCE DEADLINE</b></p> <ul style="list-style-type: none"> <li>• Submit final report detailing how compliance with WLA reductions was achieved and will be maintained</li> </ul>

<sup>1</sup>Other activities are defined as other municipal and public participation maintenance activities such as drain cleaning, volunteer cleanups, regulatory compliance and enforcement policies, homeowner involvement, downspout disconnections, structural retrofits and other structural BMP measures.

Part F.3.c.(2) Kawa Stream

Due No Later Than:	Milestone / Deliverable
June 30, 2020	<ul style="list-style-type: none"> <li>Update and re-distribute material for public education and outreach campaign, if necessary</li> </ul>
December 31, 2020	<ul style="list-style-type: none"> <li>Based on street sweeping pilot study results and evaluation of GH numerical tracking, evaluate trends to determine if reductions are sustainable; determine if alternative metrics are suitable to determine compliance or if numerical tracking is still required</li> <li>Initiate preliminary watershed planning study for additional activities necessary to achieve permit compliance</li> <li>Continue GH tracking (numerically or by alternate means)</li> </ul>
June 30, 2021	<ul style="list-style-type: none"> <li>Update and re-distribute material for public education and outreach campaign, if necessary</li> </ul>
December 31, 2021	<ul style="list-style-type: none"> <li>Continue preliminary watershed planning study and permitting for additional activities</li> <li>Continue GH tracking (numerically or by alternate means)</li> </ul>
June 30, 2022	<ul style="list-style-type: none"> <li>Update and re-distribute material for public education and outreach campaign, if necessary</li> </ul>
December 31, 2022	<ul style="list-style-type: none"> <li>Submit revised I&amp;M Plan which outlines additional activities to be implemented, if applicable<sup>1</sup></li> <li>Initiate conceptual design, planning, and permitting for Phase I additional activities, as required</li> <li>Continue GH tracking (numerically or by alternate means)</li> </ul>
June 30, 2023	<ul style="list-style-type: none"> <li>Update and re-distribute material for public education and outreach campaign, if necessary</li> </ul>
December 31, 2023	<ul style="list-style-type: none"> <li>Continue preliminary design, planning, and permitting for Phase I additional activities, as required</li> <li>Continue GH tracking (numerically or by alternate means)</li> </ul>
June 30, 2024	<ul style="list-style-type: none"> <li>Update and re-distribute material for public education and outreach campaign, if necessary</li> </ul>

<b>Due No Later Than:</b>	<b>Milestone / Deliverable</b>
December 31, 2024	<ul style="list-style-type: none"> <li>• Continue final design, planning, and permitting for Phase I additional activities, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
June 30, 2025	<ul style="list-style-type: none"> <li>• Update and re-distribute material for public education and outreach campaign, if necessary</li> </ul>
December 31, 2025	<ul style="list-style-type: none"> <li>• Advertise and award project(s) – Phase I, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
June 30, 2026	<ul style="list-style-type: none"> <li>• Update and re-distribute material for public education and outreach campaign, if necessary</li> </ul>
December 31, 2026	<ul style="list-style-type: none"> <li>• Continue construction of Phase I project(s), as applicable</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
June 30, 2027	<ul style="list-style-type: none"> <li>• Update and re-distribute material for public education and outreach campaign, if necessary</li> </ul>
December 31, 2027	<ul style="list-style-type: none"> <li>• Complete construction of Phase I project(s) and initiate 1-year of monitoring to estimate quantity of pollutant removal. Monitoring may include visual observations, sampling, or if applicable, use of literature data to estimate reductions</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
June 30, 2028	<ul style="list-style-type: none"> <li>• Update and re-distribute material for public education and outreach campaign, if necessary</li> </ul>
December 31, 2028	<ul style="list-style-type: none"> <li>• Complete Phase I project(s) monitoring analysis to estimate quantity of pollutant removal</li> <li>• Initiate conceptual design, planning, and permitting for Phase II additional activities, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
June 30, 2029	<ul style="list-style-type: none"> <li>• Update and re-distribute material for public education and outreach campaign, if necessary</li> </ul>
December 31, 2029	<ul style="list-style-type: none"> <li>• Continue final design, planning, and permitting for Phase II additional activities, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>

Due No Later Than:	Milestone / Deliverable
June 30, 2030	<ul style="list-style-type: none"> <li>Update and re-distribute material for public education and outreach campaign, if necessary</li> </ul>
December 31, 2030	<ul style="list-style-type: none"> <li>Advertise and award project(s) – Phase II, as required</li> <li>Continue GH tracking (numerically or by alternate means)</li> </ul>
June 30, 2031	<ul style="list-style-type: none"> <li>Update and re-distribute material for public education and outreach campaign, if necessary</li> </ul>
December 31, 2031	<ul style="list-style-type: none"> <li>Continue construction of Phase II project(s), as applicable</li> <li>Continue GH tracking (numerically or by alternate means)</li> </ul>
June 30, 2032	<ul style="list-style-type: none"> <li>Update and re-distribute material for public education and outreach campaign, if necessary</li> </ul>
December 31, 2032	<ul style="list-style-type: none"> <li>Complete construction of Phase II project(s) and initiate 1-year of monitoring to estimate quantity of pollutant removal. Monitoring may include visual observations, sampling, or if applicable, use of literature data to estimate reductions</li> <li>Continue GH tracking (numerically or by alternate means)</li> </ul>
June 30, 2033	<ul style="list-style-type: none"> <li>Update and re-distribute material for public education and outreach campaign, if necessary</li> </ul>
December 31, 2033	<ul style="list-style-type: none"> <li>Complete analysis of monitoring data to determine basic level of activities necessary and determine if alternative metrics are suitable to determine compliance or if numerical tracking is still required</li> <li>If additional activities are required, submit revised I&amp;M Plan which outlines additional activities to be implemented<sup>1</sup> and continue numerical tracking</li> <li>Continue GH tracking (numerically or by alternate means)</li> </ul>
June 30, 2034	<ul style="list-style-type: none"> <li>Update and re-distribute material for public education and outreach campaign, if necessary</li> </ul>
December 31, 2034	<p style="text-align: center;"><b>FINAL COMPLIANCE DEADLINE<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>Submit final report detailing how compliance with WLA reductions was achieved and will be maintained</li> </ul>

<sup>1</sup>Other activities are defined as other municipal and public participation maintenance

activities such as drain cleaning, volunteer cleanups, regulatory compliance and enforcement policies, homeowner involvement, downspout disconnections, structural retrofits and other structural BMP measures.

<sup>2</sup>The City is in preparing to submit a petition to DOH to revise the City’s WLA load reductions by incorporating site-specific water quality data and re-evaluating the margin of safety. If the City’s petition is accepted by DOH in part or in whole, the required load reductions may change, which would result in modifications to the City’s compliance schedule.

Part F.3.c.(3) Kapaa Stream – The following Schedule of Compliance applies to the MS4, ENV Kalaheo Closed Sanitary Landfill, ENV Kapaa Closed Sanitary Landfill, and ENV Kapaa Refuse Transfer Station.

Due No Later Than:	Milestone / Deliverable
December 31, 2020	<ul style="list-style-type: none"> <li>• Based on street sweeping pilot study results and evaluation of GH numerical tracking, evaluate trends to determine if reductions are sustainable; determine if alternative metrics are suitable to determine compliance or if numerical tracking is still required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2021	<ul style="list-style-type: none"> <li>• Initiate interdepartmental coordination for dredging of sediment basin (DFM and DES)</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2022	<ul style="list-style-type: none"> <li>• Complete interdepartmental agreement to dredge sediment basin</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2023	<ul style="list-style-type: none"> <li>• Initiate annual sediment basin dredging and pollutant removal study (quantity of material removed, debris composition, and TSS/TN/TP analysis)</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2024	<ul style="list-style-type: none"> <li>• Continue annual sediment basin dredging and pollutant removal study</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>

Due No Later Than:	Milestone / Deliverable
December 31, 2025	<ul style="list-style-type: none"> <li>• Continue annual sediment basin dredging and pollutant removal study</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2026	<ul style="list-style-type: none"> <li>• Based on street sweeping pilot study results and evaluation of GH numerical tracking, evaluate trends to determine if reductions are sustainable; determine if alternative metrics are suitable to determine compliance or if numerical tracking is still required</li> <li>• Continue annual sediment basin dredging, if required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2027	<ul style="list-style-type: none"> <li>• Complete analysis of monitoring data to determine basic level of activities necessary and determine if alternative metrics are suitable to determine compliance or if numerical tracking is still required</li> <li>• If required, submit revised I&amp;M Plan which outlines additional activities to be implemented<sup>1</sup> and continue numerical tracking</li> <li>• Continue annual sediment basin dredging, if required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2028	<p style="text-align: center;"><b>FINAL COMPLIANCE DEADLINE<sup>2</sup></b></p> <ul style="list-style-type: none"> <li>• Submit final report detailing how compliance with WLA reductions was achieved and will be maintained</li> </ul>

<sup>1</sup>Other activities are defined as other municipal and public participation maintenance activities such as drain cleaning, volunteer cleanups, regulatory compliance and enforcement policies, homeowner involvement, downspout disconnections, structural retrofits and other structural BMP measures.

<sup>2</sup>The City is in preparing to submit a petition to DOH to revise the City's WLA load reductions by incorporating site-specific water quality data and updated long term precipitation records and re-evaluating specific land use curve numbers. If the City's petition is accepted by DOH in part or in whole, the required load reductions may change, which would result in modifications to the City's compliance schedule.



Part F.3.c.(4) Kaneohe Stream

Due No Later Than:	Milestone / Deliverable
December 31, 2020	<ul style="list-style-type: none"> <li>• Based on street sweeping pilot study results and evaluation of GH numerical tracking, evaluate trends to determine if reductions are sustainable; determine if alternative metrics are suitable to determine compliance or if numerical tracking is still required</li> <li>• Initiate preliminary watershed planning study for additional activities necessary to achieve permit compliance</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2021	<ul style="list-style-type: none"> <li>• Continue preliminary watershed planning study and permitting for additional activities</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2022	<ul style="list-style-type: none"> <li>• Submit revised I&amp;M Plan which outlines additional activities to be implemented, if applicable<sup>1</sup></li> <li>• Initiate conceptual design, planning, and permitting for Phase I additional activities, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2023	<ul style="list-style-type: none"> <li>• Continue preliminary design, planning, and permitting for Phase I additional activities, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2024	<ul style="list-style-type: none"> <li>• Continue final design, planning, and permitting for Phase I additional activities, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2025	<ul style="list-style-type: none"> <li>• Advertise and award project(s) – Phase I, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2026	<ul style="list-style-type: none"> <li>• Continue construction of Phase I project(s), as applicable</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>

Due No Later Than:	Milestone / Deliverable
December 31, 2027	<ul style="list-style-type: none"> <li>• Complete construction of Phase I project(s) and initiate 1-year of monitoring to estimate quantity of pollutant removal. Monitoring may include visual observations, sampling, or if applicable, use of literature data to estimate reductions</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2028	<ul style="list-style-type: none"> <li>• Complete Phase I project(s) monitoring analysis to estimate quantity of pollutant removal</li> <li>• Initiate conceptual design, planning, and permitting for Phase II additional activities, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2029	<ul style="list-style-type: none"> <li>• Continue final design, planning, and permitting for Phase II additional activities, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2030	<ul style="list-style-type: none"> <li>• Advertise and award project(s) – Phase II, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2031	<ul style="list-style-type: none"> <li>• Continue construction of Phase II project(s), as applicable</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2032	<ul style="list-style-type: none"> <li>• Complete construction of Phase II project(s) and initiate 1-year of monitoring to estimate quantity of pollutant removal. Monitoring may include visual observations, sampling, or if applicable, use of literature data to estimate reductions</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2033	<ul style="list-style-type: none"> <li>• Complete analysis of monitoring data to determine basic level of activities necessary and determine if alternative metrics are suitable to determine compliance or if numerical tracking is still required</li> <li>• If additional activities are required, submit revised I&amp;M Plan which outlines additional activities to be implemented<sup>1</sup> and continue numerical tracking</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>

Due No Later Than:	Milestone / Deliverable
December 31, 2034	<b>FINAL COMPLIANCE DEADLINE<sup>2</sup></b> <ul style="list-style-type: none"> <li>• Submit final report detailing how compliance with WLA reductions was achieved and will be maintained</li> </ul>

<sup>1</sup>Other activities are defined as other municipal and public participation maintenance activities such as drain cleaning, volunteer cleanups, regulatory compliance and enforcement policies, homeowner involvement, downspout disconnections, structural retrofits and other structural BMP measures.

<sup>2</sup>The City is in preparing to submit a petition to DOH to revise the City’s WLA load reductions by incorporating site-specific water quality data and updated long term precipitation records. If the City’s petition is accepted by DOH in part or in whole, the required load reductions may change, which would result in modifications to the City’s compliance schedule.

Part F.3.c.(5) Waimanalo Stream

Due No Later Than:	Milestone / Deliverable
December 31, 2020	<ul style="list-style-type: none"> <li>• Based on street sweeping pilot study results and evaluation of GH numerical tracking, evaluate trends to determine if reductions are sustainable; determine if alternative metrics are suitable to determine compliance or if numerical tracking is still required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2021	<ul style="list-style-type: none"> <li>• Complete analysis of monitoring data to determine basic level of activities necessary and determine if alternative metrics are suitable to determine compliance or if numerical tracking is still required</li> <li>• If additional activities are required, submit revised I&amp;M Plan which outlines additional activities to be implemented<sup>1</sup> and continue numerical tracking</li> <li>• Continue GH tracking (numerically or by alternate means), if required</li> </ul>
December 31, 2022	<b>FINAL COMPLIANCE DEADLINE</b> <ul style="list-style-type: none"> <li>• Submit final report detailing how compliance with WLA reductions was achieved and will be maintained</li> </ul>

<sup>1</sup>Other activities are defined as other municipal and public participation maintenance

activities such as drain cleaning, volunteer cleanups, regulatory compliance and enforcement policies, homeowner involvement, downspout disconnections, structural retrofits and other structural BMP measures.

Part F.3.c.(6) North Fork Kaukonahua Stream

Due No Later Than:	Milestone / Deliverable
December 31, 2020	<ul style="list-style-type: none"> <li>• Based on street sweeping pilot study results and evaluation of GH numerical tracking, evaluate trends to determine if reductions are sustainable; determine if alternative metrics are suitable to determine compliance or if numerical tracking is still required</li> <li>• Monitor nutrient removals from temporary structural BMP retrofit installed in FY19</li> </ul>
December 31, 2021	<ul style="list-style-type: none"> <li>• Continue tracking effectiveness of temporary structural BMP retrofit installed in FY19; complete planning and design for conversion to permanent structural BMP retrofit, if required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2022	<ul style="list-style-type: none"> <li>• Complete construction of structural BMP retrofit, if required, and initiate 1-year of monitoring to estimate quantity of pollutant removal. Monitoring may include visual observations, sampling, or if applicable, use of literature data to estimate reductions.</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2023	<ul style="list-style-type: none"> <li>• Complete analysis of monitoring data to determine basic level of activities necessary and determine if alternative metrics are suitable to determine compliance or if numerical tracking is still required</li> <li>• If additional activities are required, submit revised I&amp;M Plan which outlines additional activities to be implemented<sup>1</sup> and continue numerical tracking</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>

Due No Later Than:	Milestone / Deliverable
December 31, 2024	<b>FINAL COMPLIANCE DEADLINE</b> <ul style="list-style-type: none"> <li>• Submit final report detailing how compliance with WLA reductions was achieved and will be maintained</li> </ul>

<sup>1</sup>Other activities are defined as other municipal and public participation maintenance activities such as drain cleaning, volunteer cleanups, regulatory compliance and enforcement policies, homeowner involvement, downspout disconnections, structural retrofits and other structural BMP measures.

Part F.3.c.(7) Waikele Stream

Due No Later Than:	Milestone / Deliverable
January 1, 2020	<ul style="list-style-type: none"> <li>• Initiate street sweeping pilot study (quantity of material collected, debris composition, and TSS/TN analysis)</li> </ul>
May 9, 2020	<ul style="list-style-type: none"> <li>• Submit updated I&amp;M Plan per Part F.3.a</li> </ul>
January 1, 2021	<ul style="list-style-type: none"> <li>• Continue sweeping pilot study (quantity of material collected, debris composition, and TSS/TN analysis)</li> </ul>
December 31, 2021	<ul style="list-style-type: none"> <li>• Complete street sweeping pilot study (TSS/TN analysis)</li> <li>Continue numerical tracking of GH activities (quantity of material collected and debris composition)</li> </ul>
December 31, 2022	<ul style="list-style-type: none"> <li>• Submit street sweeping pilot study report and provide summary of street sweeping material analyzed during pilot study</li> <li>• Continue numerical tracking of GH activities (quantity of material collected and debris composition)</li> </ul>
December 31, 2023	<ul style="list-style-type: none"> <li>• Evaluate GH numerical tracking data to determine basic level of activities necessary</li> <li>• Evaluate trends to determine if reductions are sustainable</li> <li>• Initiate preliminary watershed planning study for additional activities necessary to achieve permit compliance</li> </ul>
December 31, 2024	<ul style="list-style-type: none"> <li>• Determine if alternative metrics are suitable to determine compliance or if numerical tracking is still required</li> <li>• Continue preliminary watershed planning study and permitting for additional activities</li> </ul>

<b>Due No Later Than:</b>	<b>Milestone / Deliverable</b>
	<ul style="list-style-type: none"> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2025	<ul style="list-style-type: none"> <li>• Submit revised I&amp;M Plan which outlines additional activities to be implemented, if applicable<sup>1</sup></li> <li>• Initiate conceptual design, planning, and permitting for Phase I additional activities, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2026	<ul style="list-style-type: none"> <li>• Continue final design, planning, and permitting for Phase I additional activities, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2027	<ul style="list-style-type: none"> <li>• Advertise and award project(s) – Phase I, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2028	<ul style="list-style-type: none"> <li>• Continue construction of Phase I project(s), as applicable</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2029	<ul style="list-style-type: none"> <li>• Complete construction of Phase I project(s) and initiate 1-year of monitoring to estimate quantity of pollutant removal. Monitoring may include visual observations, sampling, or if applicable, use of literature data to estimate reductions</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2030	<ul style="list-style-type: none"> <li>• Complete Phase I project(s) monitoring analysis to estimate quantity of pollutant removal</li> <li>• Initiate conceptual design, planning, and permitting for Phase II additional activities, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2031	<ul style="list-style-type: none"> <li>• Continue final design, planning, and permitting for Phase II additional activities, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2032	<ul style="list-style-type: none"> <li>• Advertise and award project(s) – Phase II, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2033	<ul style="list-style-type: none"> <li>• Continue construction of Phase II project(s), as applicable</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>

<b>Due No Later Than:</b>	<b>Milestone / Deliverable</b>
December 31, 2034	<ul style="list-style-type: none"> <li>• Complete construction of Phase II project(s) and initiate 1-year of monitoring to estimate quantity of pollutant removal. Monitoring may include visual observations, sampling, or if applicable, use of literature data to estimate reductions</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2035	<ul style="list-style-type: none"> <li>• Complete Phase II project(s) monitoring analysis to estimate quantity of pollutant removal</li> <li>• Initiate conceptual design, planning, and permitting for Phase III additional activities, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2036	<ul style="list-style-type: none"> <li>• Continue final design, planning, and permitting for Phase III additional activities, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2037	<ul style="list-style-type: none"> <li>• Advertise and award project(s) – Phase III, as required</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2038	<ul style="list-style-type: none"> <li>• Continue construction of Phase III project(s), as applicable</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2039	<ul style="list-style-type: none"> <li>• Complete construction of Phase III project(s) and initiate 1-year of monitoring to estimate quantity of pollutant removal. Monitoring may include visual observations, sampling, or if applicable, use of literature data to estimate reductions</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>
December 31, 2040	<ul style="list-style-type: none"> <li>• Complete analysis of monitoring data to determine basic level of activities necessary and determine if alternative metrics are suitable to determine compliance or if numerical tracking is still required</li> <li>• If additional activities are required, submit revised I&amp;M Plan which outlines additional activities to be implemented<sup>1</sup> and continue numerical tracking</li> <li>• Continue GH tracking (numerically or by alternate means)</li> </ul>

<b>Due No Later Than:</b>	<b>Milestone / Deliverable</b>
December 31, 2041	FINAL COMPLIANCE DEADLINE <ul style="list-style-type: none"><li>• Submit final report detailing how compliance with WLA reductions was achieved and will be maintained</li></ul>

<sup>1</sup>Other activities are defined as other municipal and public participation maintenance activities such as drain cleaning, volunteer cleanups, regulatory compliance and enforcement policies, homeowner involvement, downspout disconnections, structural retrofits and other structural BMP measures.

Part F.4. Re-opener

In accordance with 40 CFR Parts 122 and 124, this permit may be modified (i.e., to include compliance schedules, permit conditions, etc.) to address additional or revised TMDLs as adopted by DOH and approved by the EPA.



**Part G. REPORTING REQUIREMENTS**

All submittals to DOH shall be in a format consistent with first satisfying the requirements of this permit.

**Part G.1. Annual Report**

**Part G.1.a.** The Permittee shall submit the Annual Report by October 31st of each year in pdf format (minimum 300 dpi) on CD/DVD. The Annual Report shall cover the past fiscal year. The Annual Report for the calendar year prior to the expiration date of the permit shall be submitted to the DOH and serve as the permit's renewal application. The Annual Report shall also include a description of the statuses of all items required in the permit. Submittal of the renewal application shall be at least one (1) year prior to the expiration date of this permit and include a \$1,000 filing fee.

**Part G.1.b.** The Permittee shall revise its SWMP to include a description of reporting procedures and activities, including schedules and proposed content of Annual Reports such that, at a minimum, the following is reported for each storm water program component in each Annual Report:

**Part G.1.b.(2)** *Requirements:* Describe what the Permittee was required to do (describe status of compliance with conditions of this permit and other commitments set forth in the SWMP).

**Part G.1.b.(3)** *Past Year Activities:* Describe activities over the reporting period in comparison to the requirements, including, where applicable, progress accomplished toward meeting specific measurable goals, standards and milestones or other specific performance requirements (e.g., Schedule of Compliance deliverables, etc.). When requirements were not fully met, include a detailed explanation as to why the Permittee did not meet its commitments for the reporting period. Also describe an assessment of the SWMP, including progress towards implementing each of the SWMP program components.

**Part G.1.b.(4)** *Future Activities:* Describe planned activities, including, where applicable, specific activities to be undertaken during the next reporting period toward accomplishing specific measurable goals, standards and milestones or other specific performance requirements.

- Part G.1.b.(5) *Resources*: Report on the status of the Permittee's resource base for implementing this NPDES permit during the applicable reporting period and an estimate of the resources over and above those required in the current reporting period that will be required in the next reporting period.
- Part G.1.c. *Modifications*. In each Annual Report, the Permittee shall describe any modifications made to the SWMP and implementation schedule during the past year, including justifications. The Permittee shall also describe major modifications made to the Permittee's MS4, including, but not limited to, addition and removal of outfalls, drainage lines, and City facilities.
- Part G.1.d. *Program Effectiveness Reporting*. The Permittee shall update, as necessary and continue to implement its strategy for determining effectiveness of its SWMP. The strategy shall include, but not be limited to, water quality monitoring efforts as well as program implementation information and other indicators. The Permittee shall include an assessment of program effectiveness and identification of water quality improvements and/or degradation in the Annual Report.
- Part G.2. Annual Monitoring Report
- Part G.2.a. The Permittee shall submit the Annual Monitoring Report by October 31st of each year in pdf format (minimum 300 dpi) on CD/DVD. The Annual Monitoring Report shall cover the past fiscal year. The Annual Monitoring Report may be included within the Annual Report.
- Part G.2.b. The monitoring report shall at a minimum, include the following items:
- Part G.2.b.(1) Discussion on the activities/work implemented to meet each objective, as outlined in Part F.1.a., including any additional objectives identified by the Permittee, and the results [e.g. assessment of the water quality issues in each watershed resulting from storm water discharges from the City's MS4, refer to Part F.1.a.(7)] and conclusions;
- Part G.2.b.(2) Written narrative of the past fiscal year's activities, including those coordinated with other agencies, objectives of activities, results and conclusions;
- Part G.2.b.(3) Data gathered on levels of pollutants in non-storm water discharges to the City MS4;

- Part G.2.b.(4) Using rainfall data collected by the Permittee and other agencies, the Permittee shall relate rainfall events, measured pollutant loads, and discharge volumes from the watershed and other watersheds that may be identified from time to time by the Director or Permittee;
- Part G.2.b.(5) Lists by highest priority first of each type of City Industrial Facility covered under this permit, as required in Part F.2., and the date when monitoring occurred. The monitoring event indicated on this list shall be of a representative storm event, where results were available for all required parameters following the QA/QC measures as described in your Annual Monitoring Plan;
- Part G.2.b.(6) DMRs for Municipal Industrial Facilities shall be included in the Annual Monitoring Report and be submitted via NetDMR once established by the DOH. NetDMR is a Web-based tool that allows NPDES permittees to electronically sign and submit their DMRs to EPA's Integrated Compliance Information System (ICIS-NPDES) via the Environmental Information Exchange Network. A DMR must be submitted for the facility which is scheduled to be monitored even if sampling was not conducted. An explanation as to why sampling was not conducted shall be explained with the submittal; and
- Part G.2.b.(7) Identification of management measures proven to be effective and/or ineffective at reducing pollutants and flow.
- Part G.3. Memorandum of Understanding (MOU) with DOT-Highways, MOU with DOH, and Memorandum of Agreement (MOA) - Roles and Responsibilities of the City.
- Part G.3.a. The Permittee shall continue to maintain and comply with the "Memorandum of Understanding Between the Department of Transportation Highways Division, State of Hawaii, and the Department of Environmental Services and the Department of Facility Maintenance, City and County of Honolulu," signed by the Department of Environmental Services on December 19, 2001; by the Department of Facility Maintenance on December 27, 2001; and the State Department of Transportation, Highways Division on February 1, 2002. Amendments to the MOU, if any, shall be summarized in the Annual Report.
- Part G.3.b. The Permittee shall continue to maintain and comply with the "Memorandum of Understanding between the Department of Health, Environmental Management Division, State of Hawaii, and Department of

Public Works, City and County of Honolulu," signed by the Department of Public Works on September 28, 1995, and the Department of Health on October 11, 1995. The Permittee shall coordinate MOU revisions where joint cooperation is required, as identified in this permit; and to reflect the reorganization of the City's departments, if applicable. Amendments to the MOU, shall be summarized in the Annual Report.

- Part G.3.c. The Permittee shall continue to maintain and comply with the "Memorandum of Agreement Responsibilities under NPDES Permit HI S000002 City and County of Honolulu's Municipal Separate Storm Sewer System and Certain Industrial Facilities and Small MS4s" between the Department of Environmental Services, Department of Planning and Permitting, Department of Facility Maintenance, Department of Design and Construction, Department of Parks and Recreation, Department of Enterprise Services, Department of Transportation Services, Honolulu Fire Department, Honolulu Police Department, and Honolulu Authority for Rapid Transportation signed by the Managing Director of the City on September 5, 2015. Any amendments to the MOA, if any, shall be summarized in the Annual Report.

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