PERMIT NO. HI S000002

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 ENVIRONMENTAL SERVICES (ENV)

(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, Municipal Building Complex, Kapolei Building Complex, and City Small 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,
3. Additional City facilities that are potential significant sources of pollutants, and 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/files/2013/05/StandardNpdesPermitConditions.pdf.

All references to Title 40 of the Code of Federal Regulations (CFR) are to regulations that are in effect on July 1, 2014, 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 become effective on **February 16, 2015**.

This permit and the authorized to discharge will expire at midnight, **January 15, 2020**.

Signed this 16th day of January, 2015.

(For) Director of Health

FINAL PERMIT
January 16, 2015

Table 1: City Industrial facilities covered under this permit			
Department	**Div/District**	**Facility**	
Honolulu Police Department		Kahuku Police Station Kailua Police Station Kalihi Police Station Kapolei Police Station Wahiawa Police Station	Waianae Police Station Waipahu Training Academy
Honolulu Fire Department		Central Fire Station Pawaa Fire Station Makiki Fire Station Kuakini Fire Station Kaimuki Fire Station Kalihi Fire Station Waikiki Fire Station Mokulele Fire Station and Training Center Kakaako Fire Station and Main Complex Aiea Fire Station Sunset Beach Fire Station Waipahu Fire Station Kahuku Fire Station Waialua Fire Station Hauula Fire Station Wahiawa Fire Station Kaneohe Fire Station Kailua Fire Station Aikahi Fire Station Pearl City Fire Station Kaaawa Fire Station Manoa Fire Station	Wailupe Fire Station Ewa Beach Fire Station Nuuanu Fire Station Waianae Fire Station Waimanalo Fire Station Nanakuli Fire Station McCully Fire Station Moanalua Fire Station Kalihi-Kai Fire Station Kalihi-Uka Fire Station Palolo Fire Station Hawaii-Kai Fire Station Makakilo Fire Station Mililani Fire Station Kahaluu Fire Station Waiau Fire Station Olomana Fire Station Kapolei Fire Station Mililani-Mauka Fire Station Waikele Fire Station Waipahu Vehicle Maintenance Shop Waterfront Fire Station Aircraft One Fire Station East Kapolei Fire Station
Department of Transportation Services		Middle Street Intermodel Center Pearl City Bus Facility	Kalihi-Palama Bus Facility

Table 1: City Industrial facilities covered under this permit			
Department	**Div/District**	**Facility**	
Department of Facility Maintenance	Road Division	Halawa Corp Yard Pearl City Corp Yard Wahiawa Corp Yard Waialua Corp Yard Kapolei Corp Yard	Laie Corp Yard Kaneohe Corp Yard, including Ahuimanu Dewatering Facility Kailua Corp Yard Sand Island Dewatering Facility
Department of Facility Maintenance	Automotive Equipment Service (AES)	Kapaa AES Corp Yard Halawa AES Corp Yard	Pearl City AES Corp Yard
	Public Building and Electrical Maintenance (PBEM)	Kokea Corp Yard Manana Corp Yard	
Department of Environmental Services	Collection System Maintenance (CSM)	Halawa CSM Corporation Yard	
	Refuse - Transfer Stations	Kapaa Refuse Transfer Station Keehi Refuse Transfer Station Kawailoa Refuse Transfer Station	
	Refuse – Collection Yards	Honolulu Refuse Collection Yard Waianae Refuse Collection Yard Pearl City Refuse Collection Yard Wahiawa Refuse Collection Yard Waialua Refuse Collection Yard Laie Refuse Collection Yard Kapaa Refuse Collection Yard	
	Refuse - Convenience Centers	Wahiawa Refuse Convenience Center Laie Refuse Convenience Center Waimanalo Refuse Convenience Center Waipahu Refuse Convenience Center Ewa Refuse Convenience Center Waianae Refuse Convenience Center	

Table 1: City Industrial facilities covered under this permit		
Department	**Div/District**	**Facility**
	Refuse – Closed Sanitary Landfills	Kapaa Closed Sanitary Landfill Kalaheo Closed Sanitary Landfill Waipahu Closed Sanitary Landfill Kawailoa Closed Sanitary Landfill Waianae Closed Sanitary Landfill
Department of Environmental Services	Treatment & Disposal – Wastewater Treatment Plants (WWTP)	Sand Island WWTP Honouliuli WWTP Waianae WWTP Wahiawa WWTP Kailua WWTP

Table 2: City Small MS4 facilities covered under this permit			
Department	**Div/District**	**Facility**	
Department of Parks and Recreation	District I	Hanauma Bay Nature Preserve Kapiolani Regional Park Kaimuki Community Park Kilauea District Park	Koko Head District Park Manoa District Park McCully District Park Palolo District Park
	District II	Ala Moana Regional Park Aiea District Park Salt Lake District Park Ala Puumalu Community Park Booth District Park Lanakila District Park	Puunui District Park Kalihi Valley District Park Kalakaua District Park Halawa District Park Makiki District Park Moanalua District Park
	District III	Mililani District Park Wahiawa District Park Pearl City District Park Waipahu District Park	Makakilo Community Park Waianae District Park Nanakuli District Park
	District IV	Waimanalo District Park Kailua District Park Kaneohe Community/Sr. Center	Kaiaka Bay Beach Park Kaneohe District Park Kualoa District Park
	District V	Central Oahu Regional Park Waipio Peninsula Soccer Field	
	Honolulu Botanical Gardens	Foster Botanical Garden Hoomaluhia Botanical Garden Wahiawa Botanical Garden	
Department of Enterprise Service		Neal Blaisdell Center Waikiki Shell Honolulu Zoo Ala Wai Golf Course Ewa Village Golf Course	Kahuku Golf Course Pali Golf Course Ted Makalena Golf Course West Loch Golf Course
Department of Environmental Services	Treatment & Disposal	Paalaa Kai Wastewater Treatment Plants (WWTP) Kaneohe Bay #4 Wastewater Pump Station (WWPS)	

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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 ENV 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;
- TMDL Implementation and Monitoring Plans;

The City shall notify DOH by e-mail at cleanwaterbranch@doh.hawaii.gov, within 5 (five) 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 by the deadline as specified in Part H. 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)." This form is accessible through the e-Permitting Portal website at: https://eha-cloud.doh.hawaii.gov/epermit/View/home.aspx. 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
919 Ala Moana Boulevard, Room 301
Honolulu, Hawaii 96814-4920

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 be identified below, and meet 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 pollution control 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 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 1 MGD or more, convenience centers, refuse collection yards, corporation yards), including other City-owned and operated facilities that are potential significant sources of pollution in storm water 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.

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 also visually inspect the receiving state waters, effluent, and control measures and Best Management Practices (BMPs) to detect violations of and conditions which may cause violations of the basic water quality criteria as specified in HAR, Section 11-54-4. (e.g., the Permittee shall look at effluent and receiving state waters for turbidity, color, floating oil and grease, floating debris and scum, materials that will settle, substances

that will produce taste in the water or detectable off-flavor in fish, and inspect for items that may be toxic or harmful to human or other life).

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. – TMDL Schedules of Compliance, the Permittee shall demonstrate consistency with the annual Wasteload Allocations (WLAs) reductions consistent with the assumption of the associated Total Maximum Daily Load (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 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;

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)
- Adopt-A-Stream Program
- School programs
- Distribution of brochures
- Participation in special events (e.g., Earth Day events) and exhibits
- Web site
- Pesticides, herbicides, and fertilizer use program
- 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 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 brochures distributed
- Number of people trained
- Participation in events
- Volunteer hours

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*. Within 90 calendar days of the effective date of this permit, the Permittee shall revise its field screening plan for observing major and minor outfalls to screen for improper discharges to 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 thereafter 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 ENV 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, ENV 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:

- Rules Relating to Storm Drainage Standards
- Rules Relating to Soil Erosion Standards and Guidelines
- BMPs Manual for Construction Sites

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. Descriptions of each category may be found in the City's "Rules Relating to Soil Erosion Standards and Guidelines (April 1999)." 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 to prepare and submit to the City an "Erosion and Sediment Control/Storm Water BMP 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, and stockpiling permit, sewer and storm drain connection, discharge of surface runoff permit/approval, 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/Storm Water BMP 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, and stockpiling permit, sewer and storm drain connection, discharge of surface runoff permit/approval, and trenching permit), review the Erosion and Sediment Control/Storm Water BMP Plan to verify that it fully meets all requirements of the City's Rules relating to Storm Drainage Standards; Rules relating to Soil Erosion Standards and Guidelines; and BMPs Manual for Construction Sites in Honolulu, 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/Storm Water BMP 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 (January 2000)," "Rules Relating to Soil Erosion Standards and Guidelines (April 1999)" 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 site-specific BMP Plan and/or other equivalent document(s) to inspect the site to verify BMPs as required by the BMP 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/Storm Water BMP Plans or SWPPP for those with NPDES permit coverage and City-approved permits. 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 is 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. Upon three successive monthly inspections that indicate, in total, no critical or major deficiencies or less than six (6) minor deficiencies with

no more than three (3) minor deficiencies in one (1) month in a project's BMPs or other storm water management activities, the Permittee may decrease the inspection frequency for such project to quarterly. However, if while under a quarterly inspection frequency, an inspection of a project conducted pursuant to this paragraph indicates at least one critical or major deficiency or a total of three (3) or more minor deficiencies in the project's BMPs or other storm water management activities, the inspections frequency shall immediately return to no less than monthly. This reduced inspection frequencies option is contingent upon the Permittee having defined each type (i.e., critical, major, or minor) of deficiency. The Permittee shall further develop and implement written procedures for appropriate corrective actions and follow-up inspections when deficiencies had been identified at an inspected project. The corrective action procedures shall at a minimum require that 1) any critical deficiencies shall be corrected or addressed before the close of business on the day of the inspection at which the deficiency is identified, and 2) any major deficiencies shall be corrected or addressed as soon as possible, but in no event later than five (5) calendar days after the inspection at which the deficiency is identified or before the next forecasted precipitation, whichever is sooner.

The oversight inspections shall use a risk ranking process for site selection and in the short term, target public projects and those in active vertical building phase. The Permittee shall use these oversight inspections as a way to assess 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 Manager Inspectors and extend to the other Departments. Based on this assessment, improvements to the inspection program shall be implemented within one (1) year of the effective date of this permit. Any improvements shall be highlighted in its Annual Report.

(iv) All construction projects with any City Building and Site Development, Subdivision permits or discharge of surface runoff

permit/approval 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 a site-specific BMP 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*. Within one (1) year of the effective date of this permit, the Permittee shall:

(i) Establish 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) Develop and implement an Enforcement Response Plan (ERP) to 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 Revision*. The Permittee shall review and update its Rules Relating to Storm Drainage Standards addressing post-construction runoff and Low Impact Development (LID) requirements. Any revisions shall be at least as stringent as its existing/current requirements. The revisions shall include:

(i) Requiring the Storm Drainage Standards 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 Storm Drainage Standards 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) Redefining Priority A1 Projects which area currently projects that are at least five (5) acres to include all 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's MS4. The types of smaller projects, shall include but not be limited to:

- retail gasoline outlets,
- automotive repair shops,
- restaurants,
- parking lots greater than 20 stalls,
- buildings greater than 100-feet tall,
- retail malls,
- industrial parks, and
- other projects that the City determines have the potential to discharge pollutants.

(iii) Requiring management practices to be prioritized to favor infiltration, evapotranspiration, or harvesting/reuse of stormwater followed by other practices that treat and release stormwater. This shall also apply to alternative offsite locations;

(iv) Requiring 1.5 times the water quality volume for any treat and release practices; and

(v) 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.

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:

- Criteria for requiring implementation.
- On-site management of the first inch of rainfall within a 24-hour period.
- Feasibility criteria for circumstances in which a waiver could be granted for the LID requirements.
- When a LID waiver is granted, require alternatives such as offsite mitigation and/or non-LID treatment control BMPs.

A draft of the revised standards shall be submitted to the DOH for review and acceptance within six (6) months after the effective date of this permit. Within 12 months after the effective date of this permit, subject to adoption by rulemaking, the revised Standards shall be submitted to the DOH. To the extent that the revised Standards have not been adopted, the Permittee shall submit a compliance schedule for adoption, which shall not exceed 18 months after the effective date of this permit.

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 stormwater management structures. At a minimum, this will include the review of all plans disturbing at least one (1) acre, including smaller projects (e.g., retail gas stations, restaurants, auto repair shops, parking lots) that have the potential to discharge pollutants to the City's MS4 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
- 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.
- Provide the DOH with an updated Action Plan for Retrofitting the Existing MS4 with Structural BMPs and of Existing Developed Areas with BMPs (Action Plan) within two (2) years of the effective date of this permit and begin implementation upon submittal. The Action Plan when completed 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 for retrofits. Those retrofits that will significantly improve water quality shall be given highest priority. Project's 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.

(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 to zero.
- 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
Short-Term Plan	
Trash Hotspot Assessment	
Phase 1 Surveys	6/30/2014
Phase 2 Surveys/Complete Baseline Load Study	6/30/2016
Phase 3 Surveys	6/30/2018
THA Report	6/30/2019
Short-Term Reductions (meet 50% of baseline load)	6/30/2023
Long-Term Plan	
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 municipal areas and activities to its MS4. Municipal areas and activities include, at a minimum, municipal 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 municipal 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. Within three (3) years of the effective date of this permit, the Permittee shall complete and submit to DOH its island-wide inventory of erosional areas and develop a priority based schedule for remediation. The schedule shall have a deadline of June 30, 2024 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 within five (5) years of 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) Municipal Maintenance Activities Program Plan

(i) *BMPs for municipal maintenance activities*. The Permittee shall implement the BMPs as identified in the "Municipal Field Guide" (Field Guide) for all municipal 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 municipal 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) *Requirement to Implement BMPs* – The Permittee shall require a permit or written equivalent approval for drainage connections and discharge of surface runoff from all industrial and commercial facilities and activities into the MS4 and maintain a database of the permits/approvals. The permit/approval shall obligate all industrial and commercial facilities to implement BMPs to prevent the discharge of pollutants into the MS4. For those facilities the City identifies as illicitly discharging pollutants to the MS4, the City shall 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 4th 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 though 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 4th 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 minimum 300 industrial and 100 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.

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 31st and April 30th 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.

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. City Municipal Industrial Facilities, including other City-owned and operated facilities that are potential significant sources of pollution in storm water, at a minimum, shall comply with the requirements in HAR, Chapter 11-55, Appendix B.

Refer to Table 1 for a list of industrial facilities covered under this permit.

Part E.2. The Permittee shall revise and implement Storm Water Pollution Control Plans (SWPCPs) for municipally-owned industrial facilities within 90 calendar days of the effective date of this permit. The SWPCPs shall be revised to identify site-specific BMPs and to be user-friendly for facility personnel. SWPCPs shall be developed, implemented and updated for facilities involved in vehicle or equipment maintenance, vehicle or equipment fueling, vehicle or equipment cleaning, chemical storage, recycling, closed landfills, refuse transfer stations, corporation yards, bus facilities, or convenience centers, including other municipally owned facilities that are potential significant sources of pollution in storm water. If additional facilities are identified that are potential significant sources of pollution in storm water, the Permittee shall provide DOH with the name(s) of the facility within 90 calendar days of the effective date of this permit and immediately implement a site-specific SWPCP. The Permittee shall conduct annual site inspections at each facility with a SWPCP.

The Permittee shall ensure that for each facility appropriate BMPs are implemented designed to reduce pollutant loadings to storm water.

Part E.3. The Permittee shall continue regular coordination and storm water quality data sharing between ENV and other Departments with facilities having SWPCPs.

Part E.4. The Permittee may add new or currently existing Municipal Industrial and/or new Small MS4 facilities into this permit by request in writing to the DOH. Along with a written request, for Industrial facilities or other facilities that contribute significant sources of pollutants in storm water, the Permittee shall submit the form, titled “MS4 NPDES Individual Permit – Industrial Storm Water Discharge Notification” and SWPCP to the DOH for review and comment. Upon acceptance of the information, the DOH will provide a response by e-mail. The SWPCP must be implemented upon the start-up of the facility or for an existing facility, the SWPCP must be implemented upon submittal of the written request.

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.

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) Identification of management measures proven to be effective and/or ineffective at reducing pollutants and flow.

Part F.1.b.(4) Written documentation of the following:

(i) Characteristics (timing, duration, intensity, total rainfall) of the storm event(s);

(ii) Parameters for measured pollutant loads; and

(iii) Range of discharge volumes to be monitored, as well as the timing, frequency, and duration at which they are identified;

Part F.1.b.(5) Written documentation of the analytical methods to be used;

Part F.1.b.(6) Written documentation of the Quality Assurance/Quality Control procedures to be used; and

Part F.1.b.(7) 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 (i.e., convenience center, refuse collection yard, corporation yard, etc.) 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 every representative storm until limitations are met, unless as otherwise informed by DOH, in addition to the next priority facility. 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

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

Effluent Parameter (units)	Effluent Limitation {1}	Type of Sample{2}
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 ºC)	{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

Effluent Parameter (units)	Effluent Limitation {1}	Type of Sample{2}
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

Effluent Parameter (units)	Effluent Limitation {1}	Type of Sample{2}
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 required in HAR, Chapter 11-55, Appendix B, Section 10(c).

{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, collected at periodic intervals. The composite shall be flow proportional; either the time interval between each aliquot or the volume of each aliquot must be proportional to the total flow of storm water discharge flow since the collection of the previous aliquot. The Permittee may collect aliquots manually or automatically.

Samples for analysis shall be 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 per cent of the time 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 total recoverable 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, and the North Fork of Kaukonahua Stream.

Part F.3.a. The Permittee shall submit to DOH TMDL I&M Plans based on the requirement of this permit for Kaneohe Stream and updated Plans for Ala Wai Canal, Kawa Stream, Waimanalo Stream, Kapaa Stream, and the North Fork of Kaukonahua Stream. The draft and final I&M Plans shall be made available on the Permittee's website for public review and comment. The final plans shall be submitted by the End of FY15. he 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, Total Suspended Solids, and turbidity 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)	(%)
ENV (MS4)	19,515	535	130	**7,520**	39	**358**	67	**69**	53
DPR (Small MS4)	24	1	0	**9**	38	**1**	100	**0**	0

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

ENV (MS4)			
Season	TSS (kg per season)	TN (kg per season)	TP (kg per season)
Wet Season Reduction	**7,324.30**	**8.65**	**20.62**
Dry Season Reduction	**1,195.10**	**1.85**	**1.48**

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

DES Kalaheo Closed Sanitary Landfill (Industrial Facility)			
Season	TSS (kg per season)	TN (kg per season)	TP (kg per season)
Wet Season Reduction	**10,864.8**	**11.88**	**3.96**
Dry Season Reduction	**0**	**0**	**0**

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

DES Kapaa Closed Sanitary Landfill (Industrial Facility)			
Season	TSS (kg per season)	TN (kg per season)	TP (kg per season)
Wet Season Reduction	**91,780.60**	**101.63**	**29.19**
Dry Season Reduction	**12,972.20**	**14.8**	**4.44**

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

DES Kapaa Refuse Transfer Station (Industrial Facility)			
Season	TSS (kg per season)	TN (kg per season)	TP (kg per season)
Wet Season Reduction	**2,754**	**12.24**	**3.96**
Dry Season Reduction	**170.2**	**0.74**	**0.37**

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	**0**	**249.58**	**82.40**
Dry Season Reduction	**0**	**55.26**	**23.26**

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	**0**	**19.63**	**0.65**
Dry Season Reduction	**0**	**19.63**	**0.65**

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	**6.59**	**561.25**
Dry Season Reduction	**1.30**	**0**

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

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. (Please note that ALL TMDL Schedules of Compliance are the same and set to end in FY 2021.)

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

Due No Later Than:	Milestone / Deliverable
End of FY15	Track GH activities and submit results of activities Finalize I&M Plan Complete street sweeping pilot study
End of FY16	Submit Street Sweeping Pilot Study Report and provide summary of street sweeping material analyzed during pilot study (TN and TP fractionation) Conduct and submit feasibility analysis and TMDL Asset Management Study
End of FY17	Finalize Plans, Specifications, and Estimates
End of FY18	Proof of Advertise/bid opening/award for structural controls

Due No Later Than:	Milestone / Deliverable
End of FY19	Commence construction for structural controls (Submit copy of the Notice to Proceed)
End of FY20	Complete construction (Submit proof of project completion)
End of FY21	FINAL COMPLIANCE DEADLINE Submit final report detailing how compliance with WLA reductions was achieved and will be maintained

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

Due No Later Than:	Milestone / Deliverable
End of FY15	Track GH activities and submit results of activities Finalize I&M Plan Complete street sweeping pilot study
End of FY16	Submit Street Sweeping Pilot Study Report and provide summary of street sweeping material analyzed during pilot study (TN and TP fractionation) Conduct and submit feasibility analysis and TMDL Asset Management Study
End of FY17	Finalize Plans, Specifications, and Estimates
End of FY18	Proof of Advertise/bid opening/award for structural controls
End of FY19	Commence construction for structural controls (Submit copy of the Notice to Proceed)
End of FY20	Complete construction (Submit proof of project completion)
End of FY21	FINAL COMPLIANCE DEADLINE Submit final report detailing how compliance with WLA reductions was achieved and will be maintained

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

Due No Later Than:	Milestone / Deliverable
End of FY15	Track GH activities and submit results of activities Finalize I&M Plan Complete street sweeping pilot study
End of FY16	Submit Street Sweeping Pilot Study Report and provide summary of street sweeping material analyzed during pilot study (TN and TP fractionation) Conduct and submit feasibility analysis and TMDL Asset Management Study
End of FY17	Finalize Plans, Specifications, and Estimates
End of FY18	Proof of Advertise/bid opening/award for structural controls
End of FY19	Commence construction for structural controls (Submit copy of the Notice to Proceed)
End of FY20	Complete construction (Submit proof of project completion)
End of FY21	FINAL COMPLIANCE DEADLINE Submit final report detailing how compliance with WLA reductions was achieved and will be maintained

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

Due No Later Than:	Milestone / Deliverable
End of FY15	Track GH activities and submit results of activities Finalize I&M Plan Complete street sweeping pilot study

Due No Later Than:	Milestone / Deliverable
End of FY16	Submit Street Sweeping Pilot Study Report and provide summary of street sweeping material analyzed during pilot study (TN and TP fractionation) Conduct and submit feasibility analysis and TMDL Asset Management Study
End of FY17	Finalize Plans, Specifications, and Estimates
End of FY18	Proof of Advertise/bid opening/award for structural controls
End of FY19	Commence construction for structural controls (Submit copy of the Notice to Proceed)
End of FY20	Complete construction (Submit proof of project completion)
End of FY21	FINAL COMPLIANCE DEADLINE Submit final report detailing how compliance with WLA reductions was achieved and will be maintained

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

Due No Later Than:	Milestone / Deliverable
End of FY15	Track GH activities and submit results of activities Finalize I&M Plan Complete street sweeping pilot study
End of FY16	Submit Street Sweeping Pilot Study Report and provide summary of street sweeping material analyzed during pilot study (TN and TP fractionation) Conduct and submit feasibility analysis and TMDL Asset Management Study
End of FY17	Finalize Plans, Specifications, and Estimates
End of FY18	Proof of Advertise/bid opening/award for structural controls

Due No Later Than:	Milestone / Deliverable
End of FY19	Commence construction for structural controls (Submit copy of the Notice to Proceed)
End of FY20	Complete construction (Submit proof of project completion)
End of FY21	FINAL COMPLIANCE DEADLINE Submit final report detailing how compliance with WLA reductions was achieved and will be maintained

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

Due No Later Than:	Milestone / Deliverable
End of FY15	Track GH activities and submit results of activities Finalize I&M Plan Complete street sweeping pilot study
End of FY16	Submit Street Sweeping Pilot Study Report and provide summary of street sweeping material analyzed during pilot study (TN and Turbidity fractionation) Conduct and submit feasibility analysis and TMDL Asset Management Study
End of FY17	Finalize Plans, Specifications, and Estimates
End of FY18	Proof of Advertise/bid opening/award for structural controls
End of FY19	Commence construction for structural controls (Submit copy of the Notice to Proceed)
End of FY20	Complete construction (Submit proof of project completion)
End of FY21	FINAL COMPLIANCE DEADLINE Submit final report detailing how compliance with WLA reductions was achieved and will be maintained

Part F.4. Other WLAs

As additional TMDLs are adopted by DOH and approved by the EPA that identify the Permittee as a source, the Permittee shall develop I&M Plans for a minimum of one (1) additional TMDL per year within one (1) year of the approval date. The Permittee shall include within each I&M Plan a compliance schedule with a final deadline to demonstrate consistency with the WLAs consistent with the assumption of the associated TMDL document. The schedule shall provide for the implementation of the BMPs, monitoring to evaluate its performance, and time to make adjustments necessary to demonstrate consistency with the WLAs consistent with the assumption of the associated TMDL document at the earliest possible time. If the schedule extends beyond a year, interim dates and milestones shall be included in the schedule with the time between interim dates not to exceed one (1) year.

Part F.5. 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. For the fiscal year prior to the expiration date of the permit, the Annual Report and all required NPDES forms shall be submitted to DOH and serve as the permit's renewal application. The Annual Report prior to the expiration date of the permit shall also include a description of the statuses of all items required in the permit. Please contact the DOH for the required forms and submittal instructions prior to renewal. Submittal of the renewal application shall 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, 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; and

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 municipal 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.

Part G.3. Memorandum of Understanding (MOU) 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 October 30, 2013. Any amendments to the MOA, if any, shall be summarized in the Annual Report.

Part H. SUMMARY OF DEADLINES

Deadline	Description	Part	Submit to DOH
1 year after the Effective Date of Permit (EDOP)	Revised SWMP Plan.	D.1.	Yes
1 year after EDOP	Establish requirements for issuing connection permits and require obtaining the permit prior to allowing the drain connections.	D.1.c.(2)	No*
1 year after EDOP	Revise the field screening plan	D.1.c.(3)	No*
1 year after EDOP	Implement the revised checklist	D.1.d.(3)	No
1 year after EDOP	Implement Inspection Program improvements.	D.1.d.(5)(iii)	No
1 year after EDOP	Establish policies for enforcement and penalties; and develop and implement and ERP	D.1.d.(6)	No*
6 months after EDOP	Draft of the revised Rules Relating to Storm Drainage Standards.	D.1.e.(1)	Yes
12 to 18 months after EDOP dependent on adoption by rulemaking	Final of the revised Rules Relating to Storm Drainage Standards.	D.1.e.(1)	Yes
1 year after EDOP	Inspection/cleaning of structural controls not previously inspected.	D.1.f.(1)(iv)	No*
June 24, 2016 (unless reassessed or	Complete structural BMP retrofits as identified in the Action Plan for Wailupe Stream,	D.1.f.(1)(vi)	No*

Deadline	Description	Part	Submit to DOH
funding is unavailable, refer to the permit))	Kuliouou Stream and Niu Stream.		
2 years after EDOP	Updated Action Plan for Retrofitting the existing MS$ with Structural BMPs	D.1.f.(1)(vi)	Yes
3 years after EDOP	Begin retrofit projects	D.1.f.(1)(vi)	No
3 years after EDOP	Completed Islandwide Inventory and Remediation Schedule	D.1.f.(3)(i)	Yes
June 30, 2024 or earlier within the earliest possible timeframe	Completion of all remediation work as identified in its initial inventory of erosional areas	D.1.f.(3)(i)	No*
Annual Report (October 31st)	Annually updated inventory and schedule	D.1.f.(3)(i)	No*
1 year after identification	Require the implementation of temporary erosion control measures for newly identified areas.	D.1.f.(3)(ii)	No*
1 year after identification	WQC application(s) for temporary erosion control measures. Construction shall commence within 6 months of the WQC or other regulatory permit(s) issuance date.	D.1.f.(3)(ii)	Yes
4th Year Annual Report	Industrial facilities and activities inventory information.	D.1.g.(2)	Yes
4th Year Annual Report	Commercial facilities and activities inventory information	D.1.g.(3)	Yes
Annual Report	Prioritized area plan for	D.1.g.(4)	No*

Deadline	Description	Part	Submit to DOH
(October 31st)	industrial and commercial facility inspections report.		
October 31st and April 30th	Semi-Annual Industrial and Commercial Inspection Reports.	D.1.g.(5)	Yes
Annual Report (October 31st)	Updates to the industrial and commercial inspection training	D.1.g.(7)	No*
30 calendar days prior to the initiation date of the major modification	SWMP Modification Report	D.3.a.	Yes
90 calendar days after EDOP	Revise and implement SWPCPs	E.2.	No*
90 calendar days after EDOP	Identification of additional facilities and implementation of a site-specific SWPCP	E.2.	Yes
June 1st of each year	Annual Monitoring Plan	F.1.a.	Yes
End of FY15	Final TMDL I&M Plans	F.3.a.	Yes
Various	TMDL Compliance, refer to Schedules of Compliance. Refer to the Fact Sheet for a list of DOH's required submittals in accordance with the milestones/deliverables in the Schedules of Compliance.	F.3.c.	Yes
October 31st of each year	Annual Report, to include but not limited to: • Progress evaluation results of the public education program [Part D.1.a.(3)],	G.1.	Yes

Deadline	Description	Part	Submit to DOH
	• Description and reason for any revision to its Standards and copy of the revised Standards [Part D.1.d.(1)], • Inspection Program improvements [Part D.1.d.(5)(iii)] • Updates to its implementation schedule for retrofitting the existing MS4 with structural BMPs and project status reports[Part D.1.f.(1)(vi)], • Summary of its trash load reduction actions [Part D.1.f.(1)(vii), • Updated inventory of erosional areas and implementation schedule [Part D.1.f.(3)(i)] • Updated industrial inventory information (4th Annual Report)[Part D.1.g.(2)] • Updated commercial inventory information (4th Annual Report)[Part D.1.g.(3)] • Updated prioritized area plan for Industrial and Commercial Facility and Activity Plan [Part D.1.g.(4)], • Training updates [Part D.1.g.(7)]		

Deadline	Description	Part	Submit to DOH
	• SWMP Modifications [Part D.3.a.] • System Modifications [Part D.3.b.], • Annual Report requirements [Part G.1.], and • Amendments to MOUs [Parts G.3.a. and G.3.b.].		
1 year after EDOP	Written strategy for determining effectiveness of its SWMP and identification of water quality improvements and/or degradation	G.1.d.	Yes
October 31st of each year	Annual Monitoring Report with Discharge Monitoring Reports	G.2.	Yes

* - The Permittee is not required to submit separately to DOH, however must include the information in either the Annual Report and/or SWMP, as appropriate.