

**STORM WATER POLLUTION CONTROL PLAN
HONOLULU INTERNATIONAL AIRPORT
NPDES PERMIT No. HI S000005**



**MAINTENANCE BASEYARD FACILITY
2919 AOOLELE STREET
HONOLULU, HAWAII 96819**



Prepared For:
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LIST OF ACRONYMS

ARFF	Aircraft Rescue and Fire Fighting
AST	Aboveground Storage Tank
BMP	Best Management Practice
CFR	Code of Federal Regulations
CWB	Department of Health, Clean Water Branch
DOH	State of Hawaii, Department of Health
DOTA	State of Hawaii, Department of Transportation, Airports Division
EC	Emergency Coordinator
EHS	Environmental Health Specialist
EID	Environmental Identification Number
GPS	Global Positioning System
GPD	Gallons Per Day
HAR	Hawaii Administrative Rules
HEER	Hazard Evaluation and Emergency Response
HNL	Honolulu International Airport
IWDP	Industrial Wastewater Discharge Permit
MS4	Municipal Separate Storm Sewer System
MSDS	Materials Safety Data Sheet
NPDES	National Pollutant Discharge Elimination System
OWS	Oil Water Separator
PMID	Property Management Identification Number
QA/QC	Quality Assurance / Quality Control
SWMPP	Storm Water Management Program Plan
SWPCP	Storm Water Pollution Control Plan
TMK	Tax Map Key
UST	Underground Storage Tank
VOC	Volatile Organic Compounds

1.0 INTRODUCTION

Federal regulations administered by the State of Hawaii, Department of Health (DOH) through State of Hawaii, Department of Transportation, Airports Division (DOTA) National Pollutant Discharge Elimination System (NPDES) Individual Permit No. HI S000005 requires that the maintenance baseyard for the Honolulu International Airport (HNL) be provided with a Storm Water Pollution Control Plan (SWPCP) for storm water associated with industrial activities. The purpose of the regulations is to protect water quality by reducing the amount of pollutants in storm water runoff caused by covered industrial activities.

1.1 SWPCP Implementation

The storm water management controls of this plan will become a DOTA procedure and an up-to-date copy of the SWPCP shall be maintained on site. DOTA management staff, maintenance personnel, contractor staff, and Aircraft Rescue and Fire Fighting (ARFF) personnel will be knowledgeable of the plan and follow the guidelines set forth in the SWPCP as well as HNL Airport responsibilities as described in Hawaii Administrative Rules (HAR) Title 19 and pertinent state and federal regulations. Implementation of the SWPCP is the responsibility of the Airfield and Grounds Maintenance Unit Supervisor. Enforcement of the permit conditions and this SWPCP are the responsibility of the DOTA Environmental Section. The NPDES Inspection and Enforcement Manual developed by DOTA will be used as a guide to inspection and enforcement actions conducted by DOTA personnel.

1.2 Updating the SWPCP

The SWPCP will be reviewed **every five years** or as needed to identify necessary changes. Updates may be required due to current BMP failures, spill events, changes in baseyard activities, changes in baseyard features, or other necessary changes. The Airports Deputy Director or designee will be responsible for approving revisions to the SWPCP. In the event the plan is modified, a copy of the updated SWPCP will be provided to the baseyard and the Environmental Section. Additionally, DOTA shall document and report the SWPCP changes to the DOH, Clean Water Branch (CWB), within thirty days of when the changes arise.

2.0 SITE DESCRIPTION

The Honolulu International Airport (HNL) facility is owned by the State of Hawaii, Department of Transportation, Airports Division (DOTA) and is operated within the Oahu District based at HNL (836-6411). The airport consists of 4,520 acres of land on the southern portion of the island of Oahu (Figure 1). Additionally, Hickam Air Force Base is located west of the airport, Keehi Lagoon and Sand Island to the east, Nimitz Highway to the north, and the Pacific Ocean to the south.

HNL is the busiest airport in the State of Hawaii and consists of four active runways and associated taxiways, three terminals, air carrier facilities, general aviation facilities, and two aircraft rescue and firefighting (ARFF) stations. The terminals and ARFF Station 1 are located north of Runway 8L-26R and ARFF Station 2 is located to the north of Runway 8R-26L. The airport is in operation seven days a week and security is provided by a private contractor. Additionally, the ARFF service is available 24 hours per day. The Maintenance Baseyard supports all the operations at the airport, which may include vehicle maintenance, fueling, and washing; paving and striping; vegetation management; building maintenance; and debris control.

2.1 Maintenance Baseyard (HNL.003.003.01.05)

The Maintenance Baseyard facility is located east of the terminals at 2919 Aolele Street, between the confluence of Kaloaloe Canal and another unnamed drainage ditch (Figure 2). The Maintenance Baseyard includes a maintenance shop, fueling area, paint shop, vehicle and material storage, landscaping nursery, and offices which are used to ensure the airport remains operational. A six foot high chain link fence surrounds the Maintenance Baseyard and 24 hour security is provided by a private contractor.

The maintenance shop is located on the northeastern portion of the Maintenance Baseyard and personnel utilize batteries, solvents, oils, and other lubricants in the maintenance of equipment. The new oil is stored in approximately five 55-gallon drums, placed within spill containment pallets. The solvent is used in a contained parts washer. Additionally, a 100-gallon underground oil-water separator (OWS) (EID 03907) is connected to the maintenance shop floor drains to contain any spills that may extend beyond the secondary containment. The OWS is permitted by the City and County of Honolulu to discharge to the sanitary sewer.

Used oil is stored in a 55-gallon drum within a spill pallet located in the maintenance shop until it can be deposited via forklift into the 280-gallon used oil AST (EID 09372), which is disposed of by contractors as needed. There are three storm drain inlets in the fueling area which are equipped with Safe Drain installations, preventing any oil product or storm water pollutant from entering the MS4. The used oil AST is a *Lube Cube* manufactured by Containment Solutions with integral secondary containment. It is equipped with a visual leak detection gauge for the interstitial space and a liquid level gauge for the primary tank. The fill port is located in a locked containment sump that has a capacity of 7 gallons. Spill kits are maintained in the area to respond to any further spills that may occur.

The fueling area is located near the entrance of the Maintenance Baseyard and includes two dispensers under a canopy designed to protect the fueling area from direct rainfall. The

dispensers are fueled from three underground storage tanks (UST); one 23,000-gallon diesel UST (EID 03123) and two 23,000-gallon gasoline USTs (EIDs 03121 and 03122). All USTs are double-walled and monitored through a Veeder-Root system. Additionally, there is an emergency shut-off valve located near the fueling area that is tested by maintenance personnel and a spill kit is maintained in the area.

The Paint Shop is located north of the main office and includes a paint booth (EID 03684), which is utilized for spray painting operations. Paints and supplies are stored within secondary containment in the Paint Shop. The landscape nursery is located north of the paint shop and includes plants and fertilizers in a covered area.

Materials are stored throughout the baseyard. Aggregate piles are stored within concrete masonry unit walls on the western portion of the baseyard with berms along the front of the units.

2.2 Site Activities

The activities conducted at the Subject Property include

- Vehicle and Equipment Maintenance and Storage;
- Vehicle and Equipment Washing;
- Vehicle and Equipment Fueling;
- Painting;
- Carpentry;
- Vegetation Management;
- Material Storage; and
- Waste Disposal.

The vehicle and equipment maintenance activities at the site include minor engine services, draining fluids, parts washing, changing fluids, tire change, and battery replacement. A parts washer is located in the western portion of the maintenance shop and collects spent solvent in a 55-gallon drum on secondary containment. This area also includes 55-gallon drums of new oil, used oil, transmission oil, and other maintenance materials in portable over-pack containers or spill pallets. Immediately outside of the western maintenance shop, is a parking area designated for vehicles that require maintenance. The area has been painted with a material that will prevent petroleum leaks from infiltrating into the asphalt and soil. Additionally, the facility uses drip pans to collect the oil leaks from vehicles and equipment.

The interior of the eastern portion of the maintenance shop includes an OWS 03907 that has 100-gallon capacity and discharges to the City and County of Honolulu sanitary sewer. This discharge is permitted under Industrial Wastewater Discharge Permit (IWDP) No. 20120341. Periodically, vehicles are also washed in this portion of the maintenance shop and the wash water is directed to the OWS. Vehicle fueling is conducted through dispensers located under a canopy that bring fuel from the three USTs at the site. The three storm drains located around the fueling area have been fitted with safe drains. These drains may be closed during fueling operations so that spills are not discharged to the HNL Small Municipal Separate Storm Sewer System (MS4).

Painting activities are conducted in the paint shop. This area includes a paint booth (EID 03684) and an indoor storage area for all the painting supplies. Runway stripes may be tested on the paved outside of the Paint Shop. The carpentry shop is also located inside a building and includes several types of vacuum equipment to keep wood shavings from impacting the storm water runoff.

The northern portion of the Maintenance Baseyard includes a landscaping nursery where plants are raised for the airport. Chemicals used in this area may include fertilizers and pesticides. Further pesticides are stored in a shed for use around the airport property. All usage of landscaping chemicals is recorded in accordance with the requirements of the NPDES permit. Lawn mowers and handheld vegetation management equipment are utilized around the airport property.

Materials necessary for operations at the Maintenance Baseyard and throughout the airport are stored in properly undercover and on secondary containment when necessary. These materials include new parts, light bulbs, and chemicals available at the Warehouse; maintenance materials in the maintenance shop; herbicides and pesticides in the landscaping area; paints and solvents in the paint shop; and aggregate piles in concrete masonry unit containment.

Wastes are also stored at the Maintenance Baseyard; these include general rubbish in designated bins, green waste and street sweeping debris, used oil stored in a 280-gallon AST (EID 09372), and hazardous waste from painting operations and tenant activities. All wastes are properly sorted and labeled and disposed according to the Waste Management Best Management Practice (BMP) (Appendix B).

2.3 Drainage System Description

The HNL Baseyard has four different drainage areas and each include an outfall to the drainage canal system (Figure 2). This drainage canal (Kaloaloa Canal) drains into Keehi Lagoon through an outfall at the coordinates 21°19'40"N, 157°53'56"W in the NAD83 map datum. There is no offsite runoff which enters HNL Baseyard.

2.3.1 Drainage Area 01 (Outfall 3917)

Storm water runoff drains through a swale located northeast of the Maintenance Baseyard and flows into drainage inlet 3919, which discharges into a drainage ditch (Base Outfall 01 – EID 3917) north of the HNL Baseyard. The storm water runoff in this drainage area flows from a parking area north of the HNL Baseyard fence and the HNL Baseyard interior road surrounding the Landscaping Nursery and the back-side of Paint Shop. All industrial activities in this drainage area are performed undercover and protected from contact with storm water runoff.

2.3.2 Drainage Area 02 (Outfall 3909)

Storm water runoff drains through a swale located northeast of the HNL Baseyard, into drainage inlet 3908, which discharges into the drainage ditch (Base Outfall 02 – EID 3909) to the north of the HNL Baseyard. The storm water runoff in this drainage area flows from the HNL employee parking area north of the HNL Baseyard fence and the HNL Baseyard interior road between the Paint Shop and Carpenters Shop, and the northern end of the Equipment Wash Area. All industrial activities in this drainage area are performed undercover and protected from contact with storm water runoff.

2.3.3 Drainage Area 03 (Outfall 10203)

Storm water runoff through Drain Inlets 5496 and 5498 is collected from the west end of the HNL Baseyard and flows to the Kaloaloe Canal (Base Outfall 03 – EID 10203) to the south of the facility. Dumpsters for green waste, street sweepings, and other solid wastes collected from HNL runways, taxiways, and roadways are kept in this area until DOTA’s dumpster contractor removes dumpsters.

2.3.4 Drainage Area 04 (Outfall 4576)

Storm water runoff through Drain Inlets 5499 through 5504 is collected from the HNL Baseyard entrance and maintenance vehicle parking areas south of the HNL Baseyard Main Office. The fueling area and maintenance shop are also located within this drainage area. The discharge from this Area is directed south to the Kaloaloe Canal (Base Outfall 04 – EID 4576). DOTA conducts storm water monitoring at this location (HNL Small MS4 Monitoring Point HNL 003).

2.4 Groundwater and Climate Conditions

The climate in this area of southern Oahu, near the Subject Property, is marked by seasonal variation in rainfall and small variations in temperature. The average annual rainfall reported by the U.S. Department of Agriculture is between 20 inches and 35 inches, most of which occurs between November and April.

According to Mink and Lau’s 1990 publication “Aquifer Identification and Classification for Oahu: Groundwater Protection Strategy for Hawaii,” the Subject Property is located above an upper and lower aquifer within the Moanalua Aquifer System, which is part of the Honolulu Aquifer Sector. The upper aquifer is a basal, unconfined, sedimentary aquifer, characterized as moderately saline with high vulnerability to contamination. This aquifer is neither used as a drinking water source or considered ecologically important. The lower aquifer is a basal, confined aquifer in horizontally extensive lavas, characterized as an irreplaceable, currently used drinking water source with fresh salinity (less than 250 mg/l Cl⁻ per liter of water) and a low vulnerability to contamination.

3.0 POTENTIAL POLLUTANTS IN STORM WATER

The table below lists some of the possible pollutants present at the Maintenance Baseyard by their source. The predominant activities conducted on the site include vehicle and equipment maintenance, storage, fueling, washing; painting; carpentry; vegetation management; material management; and waste management. Significant spills of these materials are reported to the Baseyard Supervisor as well as the DOTA Environmental Health Specialist (EHS) for containment/evaluation.

TABLE 1: LIST OF POTENTIAL POLLUTANTS BY SOURCE

POTENTIAL POLLUTANT	SOURCE(S)
Diesel / Gasoline	Fueling Area / Three 2,300-gallon USTs (EID 03121, 03122, 03123) / Small Equipment Fueling
Lubricants / Oils	Vehicle and Equipment Maintenance / Leaking Vehicles and Equipment / Storage / 280-gallon AST (EID 09372)
Volatile Organic Compounds (VOCs)	Solvent Storage / Parts Washer / Degreasing (Brake Pad Cleaner) / Painting Operations
Heavy Metals	Battery Storage / Engine Repair / Salvage Vehicles
Pesticides / Herbicides / Fertilizers	Chemical Storage / Vegetation Management
Surfactants	Janitorial Cleaning / Vehicle and Equipment Washing
Debris	Washing Activities / Carpentry / Street Sweeping / Aggregate Stockpiles / General Rubbish
Hazardous Waste	Hazardous Waste Storage

3.1 Recent Analytical Data on Quality of Storm Water Runoff from Facility

The most recent analytical sampling of storm water runoff from the Maintenance Baseyard occurred on January 16, 2013. The Discharge Monitoring Report (DMR) and laboratory results are included in Appendix C. There were no exceedances observed in the data obtained.

3.2 HNL Baseyard Recent Spill of Pollutants

There have been no reportable spills of pollutants at the HNL Baseyard during the last five years which have left the property boundary. Any spills that may occur in the future will be reported to the DOTA Environmental Section for record keeping purposes and necessary regulatory agencies in accordance with the Spill Response BMP in Appendix B.

4.0 NON-STORM WATER CONTROL

The only source of non-storm water discharge from the Maintenance Baseyard is sinks and vehicle washing activities. The sinks are connected to the sanitary sewer and the vehicle washing is conducted in the covered maintenance shop that includes an OWS (EID 03907). The IWDP for the OWS connection is located in Appendix D. The following procedures will be used to prevent the wash water from entering State waters.

- Vehicles will be washed only in the maintenance shop where waters can be directed to the OWS (EID 03907) through floor drains. The OWS removes petroleum products from the wash water before discharging to the City and County of Honolulu sanitary sewer.
- Vehicles will be allowed to dry as much as possible before leaving the maintenance shop.
- The maintenance shop floor and floor drains will be cleaned regularly to remove detergent, oil, and dirt residue.
- The OWS will be inspected at least once per year and cleaned as necessary by a contractor.

5.0 BEST MANAGEMENT PRACTICES

By using proper management techniques and practices, it is possible to improve control of the identified potential sources of pollutants and reduce the number of spills/releases to the storm water system. BMPs and evaluation checklists are in Appendix B. The BMPs have been adapted from the City & County of Honolulu, Department of Environmental Services, “*Best Management Practices Manual for Construction Sites in Honolulu,*” and the Honolulu International Airport, “*Storm Water Management Program Plan.*”

5.1 Good Housekeeping

Good housekeeping practices are developed to maintain a clean, safe and orderly working environment. A clean and orderly work area reduces the possibility of accidental spills caused by mishandling of equipment and should reduce safety hazards to personnel. Various maintenance materials such as petroleum products are stored at the Maintenance Baseyard. The implemented BMPs will reduce the potential for the contamination from those products to storm water by minimizing exposure of such materials to storm water. Additionally, a BMP has been developed to ensure that waste generated is properly managed.

5.2 Preventative Practices

Preventive practices are developed to reduce the occurrence of spillage and/or leakage from aircraft and equipment. Preventive maintenance involves examination of mechanical equipment and systems to uncover conditions that could cause equipment breakdowns, and correction of those conditions by adjustment, repair, or replacement of worn parts before the equipment or systems fail. The Maintenance Baseyard personnel conducts checks on their vehicles, AST, USTs, and OWS to ensure that there are no leaks and that they are functioning properly.

5.3 Spill Containment and Remediation

Small spills of oil (less than 25 gallons) which are capable of being cleaned up within 72 hours and do not threaten ground or surface waters will be cleaned up using absorbent materials or other acceptable practices, without disrupting facility operations. Frequent inspections of the facility will identify any small spills, and will be addressed immediately.

Any spill, leak or release of hazardous substances greater than their reportable quantity as defined in HAR Chapter 11-45-1-6, any spill, leak or release of petroleum products greater than 25 gallons (for petroleum products), any spill, leak or release of petroleum products less than 25 gallons that is not remedied or contained within 72 hours, or any sheen observed on surface waters must be reported to the Airport Emergency Services (836-6670). Several agencies must be informed of the spill, including, DOH Hazard Evaluation and Emergency Response (HEER) office, DOH Clean Water Branch (CWB), National Response Center, and U.S. Coast Guard. In the event of a large or uncontrolled release, the Baseyard Supervisor shall act as the Emergency Coordinator (EC).

TABLE 2: EMERGENCY CONTACT INFORMATION

CONTACT	TELEPHONE NUMBER
Airport Emergency Services The Airport Emergency Services should be notified of all spills or releases that occur on the Subject Property.	(808) 836-6670
DOTA Environmental Health Specialist DOTA's Environmental Health Specialist should be notified of all spills or releases that occur on the Subject Property to assist in spill response as well as for record keeping purposes.	(808) 838-8002
Maintenance Baseyard Supervisor The Maintenance Baseyard Supervisor should be notified immediately of all spills, leaks, and releases that occur on the Subject Property.	(808) 836-6497
Airport Duty Manager The Airport Duty Manager should be notified immediately of all spills, leaks, and releases that occur on the Subject Property so that they can assist in response and notify other entities, if required.	(808) 836-6434
National Response Center (NRC) The EC should call the NRC to report any spill of oil or hazardous materials of a reportable quantity. The NRC will notify the appropriate Federal On-Scene Coordinator (EPA) and various state agencies.	(800) 424-8802
U.S. Coast Guard Marine Safety Office (Oahu) The U.S. Coast Guard should be notified of any quantity spill that reaches the ocean.	(808) 522-8260
Oahu Civil Defense The EC should notify the Oahu Civil Defense of any reportable quantity spill.	(808) 733-4300
DOH HEER Office (Oahu) The EC should notify the HEER office of any chemical spill of a reportable quantity.	(808) 586-4249 (808) 247-2191 (after hours)
DOH CWB (Oahu) The EC should notify the CWB of any spills of any chemical of a reportable quantity immediately by telephone. A written notification must also be submitted no later than thirty (30) days after the initial discovery of a release.	(808) 586-4309

6.0 STORM WATER MONITORING Program

DOTA conducts a Storm Water Monitoring Program as one component of the HNL Small MS4 Storm Water Management Program Plan (SWMPP). This Monitoring Program is required by the HNL Small MS4 Permit No. HI S000005 and procedures are located in the SWMPP Section H, Part 3. The focus of this program is to monitor storm water and non-storm water runoff from the HNL Small MS4 including storm water discharges to State Waters.

6.1 Storm Water Monitoring Location

Monitoring location, HNL 003, is located at outfall 4576, which discharges storm water from the Baseyard to the Kaloaloe Canal. The Global Positioning System (GPS) coordinates for the monitoring location are 21°19'52.9"N, 157°54'21.3"W. The runoff could contain contaminants from vehicle and equipment maintenance, fueling, and washing activities, such as sediments/solids, detergent, fuel, material storage and other petroleum products.

6.2 Monitoring Parameters

The following parameters will be analyzed for samples collected from HNL 003.

TABLE 3: HNL 003 MONITORING PARAMETERS

PARAMETER	SAMPLE TYPE ²	TEST METHOD	EFFLUENT LIMITATION ¹
Flow (gallon)	Calculate/ Estimate	rain gauge	Report ⁴
Biochemical Oxygen Demand (mg/l)	Composite ³	E405.1	Report ⁴
Chemical Oxygen Demand (mg/l)	Composite ³	E410.4	Report ⁴
Total Suspended Solids (1 mg/l)	Composite ³	E160.2	20mg/l* 10mg/l**
Total Phosphorus (mg/l)	Composite ³	E365.4	50mg/l* 30mg/l**
Total Nitrogen (mg/l)	Composite ³	SM4500-N	250mg/l* 180mg/l**
Nitrate + Nitrite (mg/l)	Composite ³	E353.2	70mg/l* 30mg/l**
Oil and Grease (mg/l)	Grab	E1664A	15mg/l
pH (unit)	Grab	E150.1	5.5-8.0 ±0.5 from ambient
Ammonia Nitrogen (1 µg/l)	Composite ³	E350.3	Report ⁴

PARAMETER	SAMPLE TYPE ²	TEST METHOD	EFFLUENT LIMITATION ¹
Turbidity (0.1 NTU)	Grab	E180.1	5 NTU* 2 NTU**
Dissolved Oxygen (0.1 mg/l)	Grab	E360.1	Report ⁴
Oxygen Saturation (1%)	Grab	SM4500-O ²	≥80%
Temperature (0.1 °C)	Grab	E170.1	±1 °C from ambient
Salinity (0.1 ppt) / Conductivity (1µmhos/cm)	Grab	E120.1	≤300µmhos/cm
Aluminum (µg/l)	Composite ³	E6010	750 µg/l
Cadmium (µg/l)	Composite ³	E6010	3+ µg/l
Chromium (VI) (µg/l)	Composite ³	E6010	16 µg/l
Copper (µg/l)	Composite ³	E6010	6+ µg/l
Lead (µg/l)	Composite ³	E6010	29+ µg/l
Nickel (µg/l)	Composite ³	E6010	5+ µg/l
Silver (µg/l)	Composite ³	E6010	1+ µg/l
Zinc (µg/l)	Composite ³	E6010	22+ µg/l
Benzene (µg/l)	Composite ³	E8020	1800 µg/l

NOTES:

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

+ = The value listed is the minimum standard. Depending upon the receiving water CaCO₃ hardness, higher standards may be calculated using the respective formula in the U.S. Environmental Protection Agency publication Quality Criteria for Water (EPA 440/5-86-001, Revised May 1, 1987).

*Wet Season: November 1 through April 30

**Dry Season: May 1 through October 31

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).

²The 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 Effluent limitations are the acute water quality standards established in HAR, Chapter 11-54, Section 11-54-4. For pollutants which do not have established acute water quality standards, **any detection concentration greater than 0.01 mg/l shall be reported.**

6.3 Monitoring Procedures

In accordance with the provisions of DOTA’s HNL Small MS4 permit, samples of storm water runoff shall be monitored according to the Monitoring Plan detailed in the SWMPP Section H, Section 3.0. An automatic sampler may also be used to collect the storm water sample.

6.3.1 Gather Necessary Sampling Equipment

Contact a laboratory and request that they provide a storm water sampling kit for the constituents listed in Table 3, excluding those that will be measured in the field (typically pH, temperature, and dissolved oxygen). Inform the laboratory of the constituents that will be monitored as a grab sample and those that will be monitored as a composite sample.

HAR 11-55 defines a grab sample as a sample collected within the first 15 minutes of discharge. Therefore, only one sample container should be required for each of these constituents. However, the laboratory should provide four separate containers for each of the constituents listed as requiring a composite sample. The composite sample will be collected at 15 minute intervals for one hour or until the rainfall ceases. The laboratory will combine the composite sample containers into one container based on the amount collected once they are received.

Once the sample containers have been received from the laboratory, store them and all other sampling items in a central location so that they are easy to grab when a sampling event occurs. The following is a list of suggested sampling materials:

- Sample bottles, sample cooler with frozen media such as ice.
- Storm water scoop to aid in collecting sample. Note: May **not** be used to collect the oil and grease sample.
- pH, temperature, and dissolved oxygen meter. Note: This should be calibrated within 24 hours of collecting the sample.

- Disposable cups to hold the sample for field measurements (pH, temperature, and dissolved oxygen).
- Disposable nitrile gloves. Note: these should be worn when handling samples and containers and changed between sampling locations.
- Field notebook, sample labels, chain of custody form, and permanent marking pen. Note: it is suggested to use a rain resistant notebook.
- Personal Protective Equipment (PPE) such as AOA badge, safety vest, safety glasses, steel toed boots, hard hat, etc.

6.3.2 Monitor the Weather

Storm water sampling should occur during representative storm events. As defined by HAR Chapter 11-55-01, a representative storm is defined as a rainfall that accumulates more than 0.1 inches of rain and occurs at least 72 hours after the previous measurable rainfall (greater than 0.1 inches).

Personnel will monitor the data recorded on the National Oceanic and Atmospheric Administration (NOAA) website (<http://www.prh.noaa.gov/data/HFO/RRAHFO>) for the Honolulu International Airport (HNL). Once personnel have determined that there has been no rain event over 0.1 inch the previous 72 hours, the weather forecast will be viewed in order to anticipate when a rain event may begin. Once a rain event begins that appears to be significant (i.e. may exceed the 0.1 inch requirement), personnel will mobilize to the site within 15 minutes or as soon as possible to collect a sample.

6.3.3 Take Field Measurements

Once the sampler has reached the sampling location, the following observations should be recorded in the field notebook:

- Date and time of arrival onsite.
- Names of sampling personnel present.
- Time that rainfall began.
- Other observations about the discharge such as color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, or other obvious indicators of storm water pollution.

The sampling should commence when personnel don nitrile gloves and fill a disposable cup with storm water from the outfall. Personnel will insert the pH, temperature, and dissolved oxygen meter in the sample within 15 minutes and record the measurement in the field notebook for each once the reading has stabilized (i.e. stay on a consistent number for a period of time).

6.3.4 Collect the Grab Sample and Measure the Flow Rate

Personnel will continue sampling by filling the container for the oil and grease sample by allowing storm water to follow directly into the bottle from the outfall. Typically, this container is a 1-liter amber glass bottle with hydrochloric acid (HCl) preservative. Note: Ensure that the bottle does not overflow or the preservative may be lost. Personnel will record the time it takes

to fill the bottle in seconds in the field notebook. This will be used to complete flow calculations at a later time. Once filled, the oil and grease sample will be securely capped and placed in cooler with frozen media. The remaining grab samples should be collected at this time (i.e. turbidity, oxygen saturation, salinity).

Then the remaining sample bottles will be filled either directly or by using a scoop, capped, and placed in the cooler with frozen media. These should be marked as “Composite Part 1.” The sampling time should be recorded in the field notebook.

6.4 Collect Composite Sample, if possible

If the rain event continues for 30 minutes, then personnel will collect Composite Part 2. This will be completed by filling the second set of containers for composite constituents. These will be securely capped, marked as “Composite Part 2,” and placed into the cooler with frozen media. This process will be repeated every 15 minutes for up to 1 hour as long as the rainfall continues and samples will be labeled as appropriate (i.e. “composite part 3” and “composite part 4”).

6.4.1 Record Final Observations and Label Samples

Once sample collection has been completed, personnel will record the time that sampling activities are completed and/or rainfall ceases. Then sample labels should be placed on the side of each container. An example label is presented below.

Sample Label		
Date: 1/1/14	Time: 0900	Collected By: J. Smith
Sampling Site: HNL 003		
Tests Required: See COC		
Sample Type: <input type="checkbox"/> Grab <input checked="" type="checkbox"/> Composite <input type="checkbox"/> Other_____		

6.4.2 Fill Out Chain of Custody (COC)

A chain of custody form shall be properly filled out and signed by each individual handling the samples to ensure sample integrity.

6.4.3 Deliver Samples to Laboratory

Each sample collected must be iced in the sample cooler immediately and until received by the laboratory. Samples will only be collected Monday through Friday (not days before holidays) because contract laboratories may be closed on weekends and holidays. The testing laboratory shall be qualified to perform the EPA approved methods. The EPA methods for analyzing environmental samples contain explicit quality control requirements that must be met. These requirements include specific procedures and criteria for evaluating accuracy and precision, demonstrating the ability of the analyst to generate acceptable accuracy and precision, and demonstrating that extraneous interferences are under control. The laboratory will be required to

document strict adherence to the general laboratory Quality Assurance/Quality Control (QA/QC) requirements. The laboratory shall provide appropriate QA/QC documentation with the analytical results.

6.4.4 Data Review and Validation

Upon receipt of the analytical results from the laboratory, personnel will perform additional data validation to determine whether analytical data is acceptable for use in the context of this site investigation. The evaluation will include an assessment of laboratory QC data and field notes. The field measured parameters will be validated by the calibration of the water quality meter prior to the start of sample collection.

7.0 PROCEDURES FOR IMPLEMENTATION

Procedures include the training of employees, protocol for inspections, and completion of documentation.

7.1 Employee and Tenant Training

HNL Baseyard maintenance personnel training programs are used to inform personnel, at all levels of responsibility, of the processes and materials with which they are working, the health and safety hazards, the practices for preventing spills, and the procedures for responding properly and rapidly to spills of toxic and hazardous materials. DOTA has developed and implemented annual mandatory environmental training. This employee training program is designed to ensure that the DOTA maintenance personnel understand pollution laws, regulation, and methods of compliance. The program focuses on permit conditions and the responsibilities of DOTA personnel. Included in the topics to be covered:

TABLE 4: SUMMARY OF MAINTENANCE PERSONNEL TRAINING PROGRAM

Training Topic	Trainee	Responsibility	Frequency
Potential Pollutants	Personnel	Maintenance Baseyard Supervisor	Annual
Best Management Practices	Personnel	Maintenance Baseyard Supervisor	Annual
Past Releases and Causes	Personnel	Maintenance Baseyard Supervisor	Annual
Spill Prevention and Response Plan	Personnel	Maintenance Baseyard Supervisor	Annual
Site Inspections	Personnel	DOTA Environmental Section	Annual

7.2 Protocol for Site Inspections

The HNL EHS will perform quarterly inspections during the term of the HNL Small MS4 permit to ensure that BMPs are in place and in proper working order. DOTA will submit a copy of each inspection to CWB within 30 days of each inspection. DOTA EHS personnel will inspect the facility in accordance with the latest version of the “NPDES Inspection and Enforcement Manual.”

7.3 Revisions to SWPCP

Plan reviews shall be performed as necessary to assess the effectiveness of the BMPs and to implement appropriate revisions due to:

- Evaluations as a result of a spill event;
- Changes in materials used on-site;
- Changes in the maintenance procedures; and/or
- Changes in management practices.

Revisions may also be made if BMPs in the SWPCP are not effective in reducing pollutants in storm water discharges and/or the facility is found to be in violation of the NPDES permit conditions. Plan review and revisions shall be completed within 30 days. All DOTA personnel at the HNL Baseyard with maintenance duties will be informed during staff meetings of any changes made to the SWPCP, and will be trained on new or modified procedures, if necessary.

7.4 Documentation Procedures

Records shall be kept that document all spills, leaks and other discharges, including hazardous substances in reportable quantities that occur at the facility.

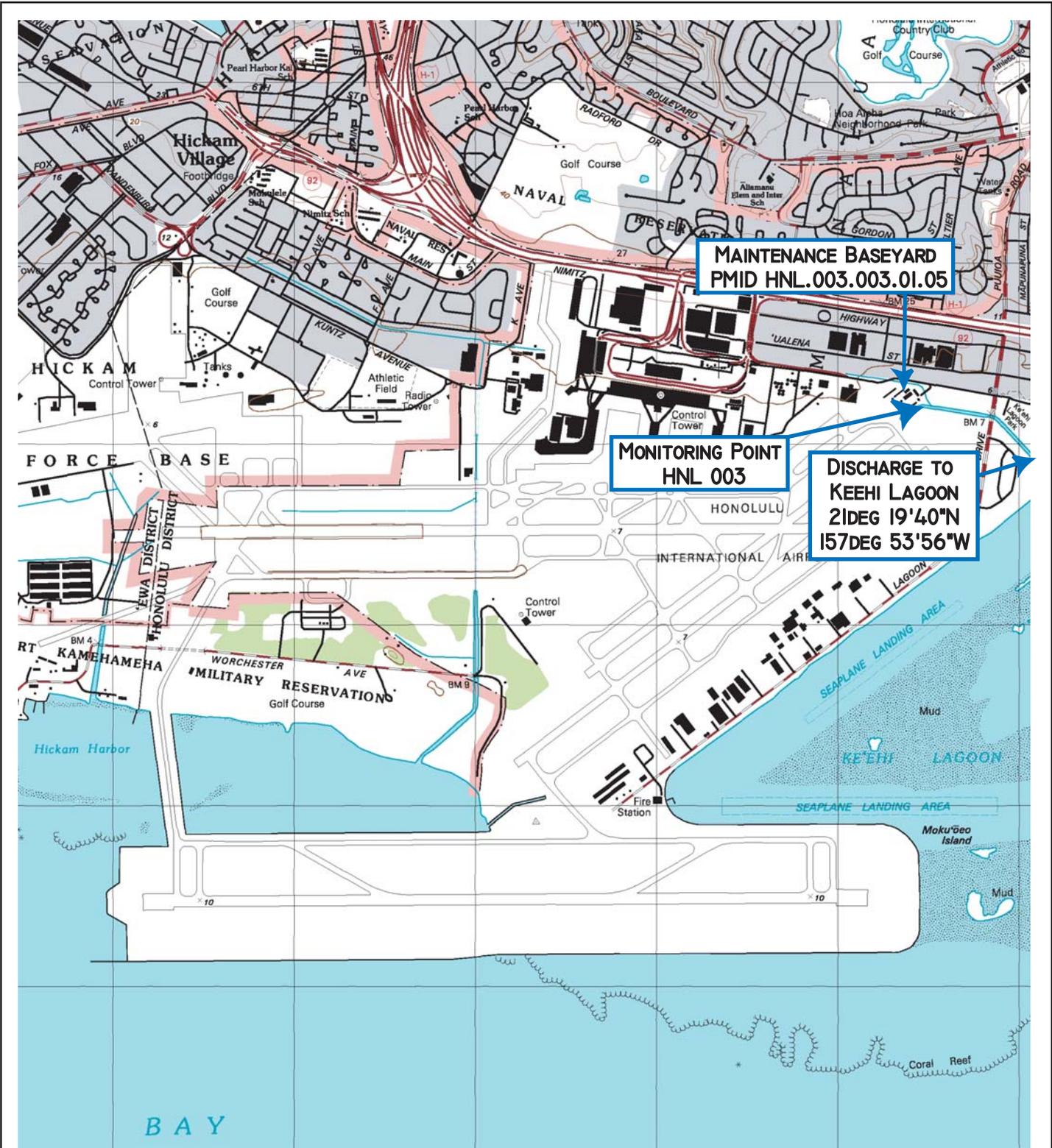
Reports of all inspections performed at the site shall be retained at the facility. The inspector shall document all observations, particularly the effectiveness of site BMPs. Inspection records shall be analyzed quarterly (to correspond with quarterly facility inspections) to determine if BMPs are effective, and if not, what needs to be done to improve the methods used at the site.

A copy of this SWPCP shall also be made available to personnel as a reference in the same location that Material Safety Data Sheets (MSDS) and other safety information are maintained and in the Airfield & Ground Maintenance Unit Supervisor's office at the HNL Baseyard.

8.0 REFERENCES

- City & County of Honolulu, Department of Environmental Services. 2012, *Best Management Practices Manual for Construction Sites in Honolulu*.
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- U.S. Department of Interior Geological Survey. 1999. *Pearl Harbor Quadrangle, 7.5 Minute Series (Topographic Map)*.

Figures



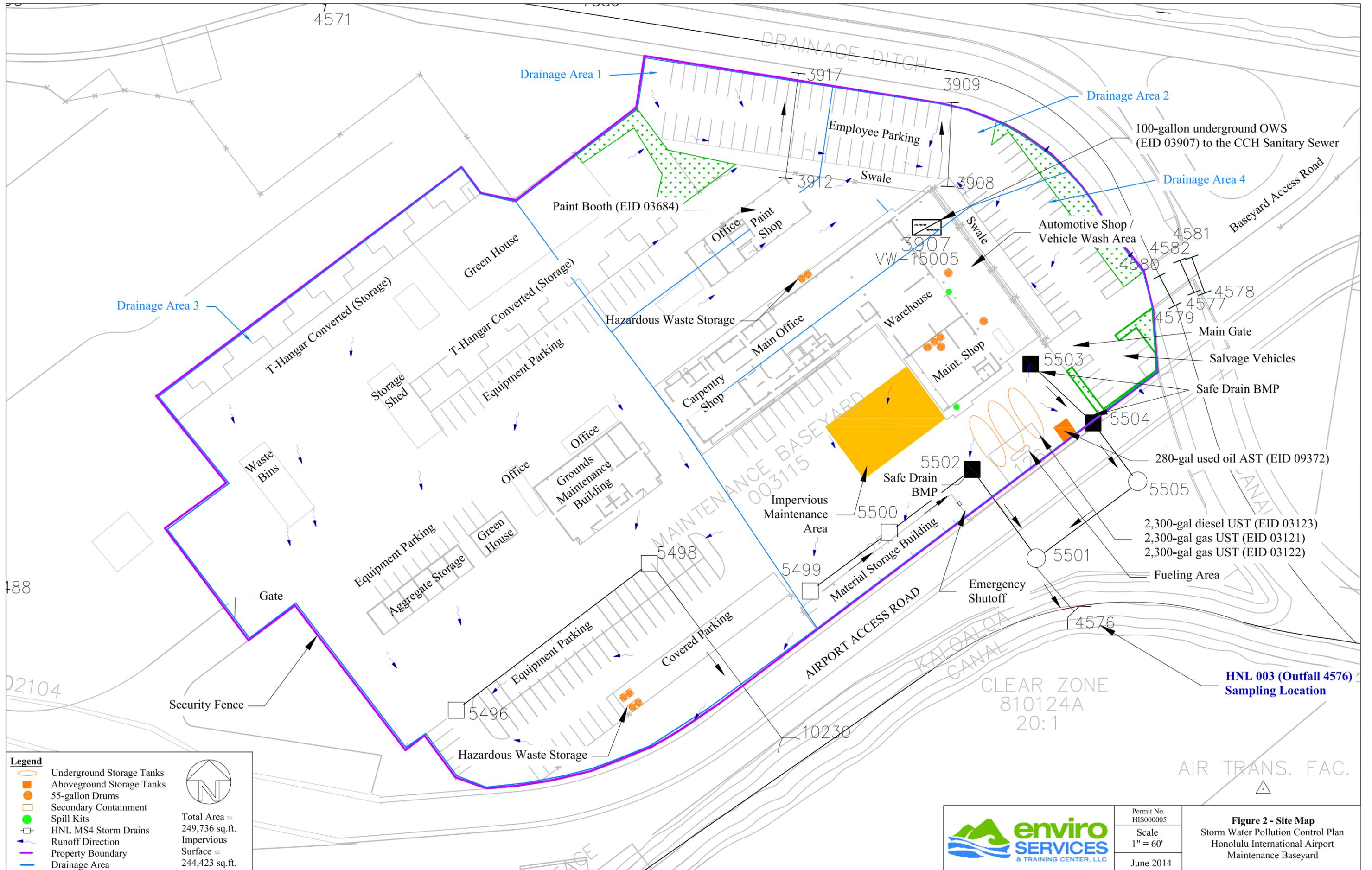
Source:
 United States Geological Survey
 Pearl Harbor Quadrangle
 Island of Oahu, 7.5 Minute Series, 1999



Permit No.
 HI S000005

June 2014

Figure 1 - Site Location Map
 Storm Water Pollution Control Plan
 Honolulu International Airport
 Maintenance Baseyard



4571

DRAINAGE DITCH

Drainage Area 1

Drainage Area 2

100-gallon underground OWS (EID 03907) to the CCH Sanitary Sewer

Drainage Area 4

Employee Parking

Swale

Paint Booth (EID 03684)

Office

Paint Shop

Automotive Shop / Vehicle Wash Area

Drainage Area 3

Green House

Hazardous Waste Storage

T-Hangar Converted (Storage)

T-Hangar Converted (Storage)

Storage Shed

Equipment Parking

Carpentry Shop

Main Office

Warehouse

Maint. Shop

Main Gate

Salvage Vehicles

Safe Drain BMP

Waste Bins

Equipment Parking

Green House

Office

Grounds Maintenance Building

Impervious Maintenance Area

Safe Drain BMP

Material Storage Building

Emergency Shutoff

280-gal used oil AST (EID 09372)

2,300-gal diesel UST (EID 03123)

2,300-gal gas UST (EID 03121)

2,300-gal gas UST (EID 03122)

Fueling Area

88

Gate

Aggregate Storage

Green House

Covered Parking

AIRPORT ACCESS ROAD

KALOALOA CANAL

CLEAR ZONE 810124A 20:1

HNL 003 (Outfall 4576) Sampling Location

02104

Security Fence

Hazardous Waste Storage

10230

AIR TRANS. FAC.



Permit No. HIS000005
Scale 1" = 60'
June 2014

Figure 2 - Site Map
Storm Water Pollution Control Plan
Honolulu International Airport
Maintenance Baseyard

NORTHEAST PORTIONS OF MAINTENANCE BASEYARD
 PARKING AREAS, VEHICLE WASHING,
 MAINTENANCE SHOP, PAINT SHOP,
 STORAGE SHEDS, AND GREEN HOUSE

SOUTH AND EAST PORTIONS OF MAINTENANCE BASEYARD
 FUELING AREA, EQUIPMENT PARKING,
 WAREHOUSE, CARPENTRY,
 STORAGE SHEDS, AGGREGATE
 STORAGE,
 AND WASTE STORAGE

BEST MANAGEMENT PRACTICES
 GOOD HOUSEKEEPING
 PROPER MATERIAL STORAGE AND USE
 PREVENTATIVE MAINTENANCE AND INSPECTIONS
 VEHICLE WASH WATER CONTAINMENT
 OIL WATER SEPARATOR MAINTENANCE
 PROPER WASTE MANAGEMENT
 SPILL PREVENTION AND CONTAINMENT
 EMPLOYEE TRAINING

BEST MANAGEMENT PRACTICES
 GOOD HOUSEKEEPING
 PROPER MATERIAL STORAGE AND USE
 PREVENTATIVE MAINTENANCE AND INSPECTIONS
 FUELING PRACTICES AND SAFE DRAINS
 PROPER WASTE MANAGEMENT
 SPILL PREVENTION AND CONTAINMENT
 EMPLOYEE TRAINING

Drainage Area 01
 0.6 ac

Drainage Area 02
 0.8 ac

Drainage Area 03
 2.9 ac

Drainage Area 04
 1.4 ac

SHEET FLOW
 TO SWALE /
 DI 3919

SHEET FLOW
 TO SWALE /
 DI 3908

SHEET FLOW
 TO DRAIN
 INLETS 5496
 & 5498

SHEET FLOW
 DRAIN INLETS
 5499-5504

BASE OUTFALL 01
 (OUTFALL 3917)

BASE OUTFALL 02
 (OUTFALL 3909)

BASE OUTFALL 03
 (OUTFALL 10230)

MONITORING
 POINT
 HNL 003

AOELE STREET
 DRAINAGE DITCH

AOELE STREET
 DRAINAGE DITCH

BASE OUTFALL 04
 (OUTFALL 4576)

Flow Rate ≈
 0.06 ft³/sec

Flow Rate ≈
 0.08 ft³/sec

Flow Rate ≈
 0.29 ft³/sec

Flow Rate ≈
 0.14 ft³/sec

STATE RECEIVING WATER : KALOALOA CANAL

KEEHI LAGOON



Flow calculation:
 $Q = CIA$, where:
 Q = flow rate in cubic feet / sec
 C = runoff coefficient = 1
 $I = 0.1'' / hr$
 A = area in acres

Permit No.
 HIS000005

June 2014

Figure 3 - Storm Water Flow Chart
 Storm Water Pollution Control Plan
 Honolulu International Airport
 Maintenance Baseyard
 2919 Aolele Street
 Honolulu, Hawaii 96819

Appendix A

Photographic Documentation



Photograph 1: Main Office at the Honolulu International Airport Baseyard.



Photograph 2: Exterior of Warehouse and maintenance shop.



Photograph 3: Interior of the maintenance bay and vehicle washing area inside of the maintenance shop.



Photograph 4: Floor drain in the maintenance shop to the oil water separator (03907)



Photograph 5: Lubricants stored on secondary containment in the maintenance shop.



Photograph 6: Parts washer on secondary containment in the maintenance shop.



Photograph 7: 55-gallon drums of used oil in mobile over-pack containers.



Photograph 8: 280-gallon used oil AST (EID 09372) near the fueling area.



Photograph 9: Spill materials located outside of the maintenance shop near the fueling area.



Photograph 10: Battery charging room within the maintenance shop.



Photograph 11: Spent battery storage area near the fueling area under cover.



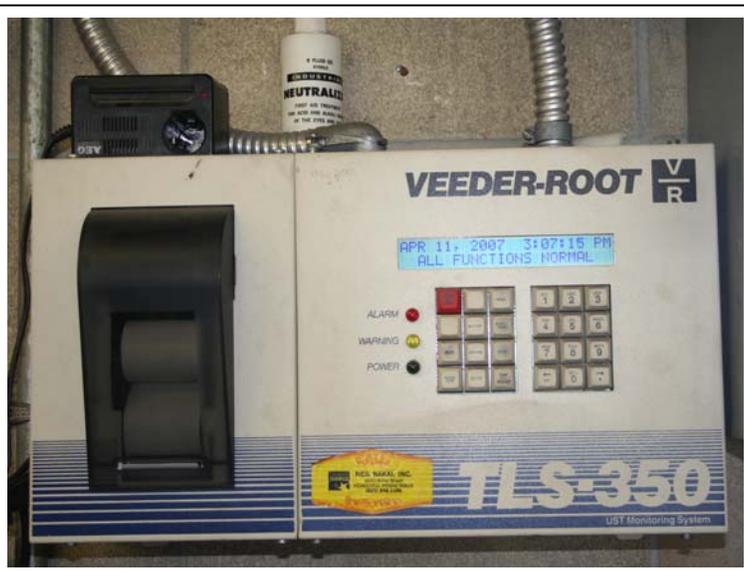
Photograph 12: Covered fueling Area.



Photograph 13: Safe drain located in the fueling area.



Photograph 14: Emergency shutoff for fueling area.



Photograph 15: Veeder-Root monitoring system for the underground storage tanks.



Photograph 16: Inside the Warehouse storage area.



Photograph 17: Flammable storage locker in the Warehouse area.



Photograph 18: Interior of the Carpentry Shop. Visible piping is a part of the sawdust vacuum system.



Photograph 19: Greenhouse area near the Carpentry Shop.



Photograph 20: Fertilizers stored in the shed near the fueling area.



Photograph 21: Small equipment and flammable storage lockers in the shed near the fueling area.



Photograph 22: Office trailers in the northern portion of the Maintenance Baseyard.



Photograph 23: Exterior of the Paint Shop.



Photograph 24: Paint storage area and testing area.



Photograph 25: Hazardous waste storage area for the Paint Shop near the main office.



Photograph 26: Hazardous waste storage area for other wastes in the covered parking area.



Photograph 27: Covered parking area.



Photograph 28: Employee parking area along the eastern canal.



Photograph 29: Waste bin storage area.



Photograph 30: Street sweeper waste disposal bin.



Photograph 31: Drainage ditch along the eastern boundary of the Maintenance Baseyard, adjacent to Aolele Street.



Photograph 32: Drainage canal along the eastern boundary of the Maintenance Baseyard. Bridge provides access to the main gate. Salvage vehicles are stored on the other side of the bridge.



Photograph 33: Kaloaloa Canal on the southern side of the Maintenance Baseyard. Monitoring Point HNL 003 identified by arrow.

Appendix B

Best Management Practices

**BEST MANAGEMENT PRACTICES
FOR HONOLULU INTERNATIONAL AIRPORT
MAINTENANCE BASEYARD**

TABLE OF CONTENTS

GOOD HOUSEKEEPING PRACTICES.....1

STREET SWEEPING OPERATIONS.....2

VEHICLE AND EQUIPMENT MAINTENANCE AND REPAIR3

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VEHICLE AND EQUIPMENT FUELING.....5

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SOLID WASTE STORAGE AND DISPOSAL9

SPILL PREVENTION AND RESPONSE PRACTICES.....11

**APPENDIX I - LIST OF APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS APPLYING
TO ENVIRONMENTAL COMPLIANCE AT AIRPORTS**

**APPENDIX II – SUMMARY OF FEDERAL AND STATE REGULATIONS FOR SOLID WASTE
MANAGEMENT**

Best Management Practices Good Housekeeping Practices

Description

Daily activities performed at the Maintenance Baseyard require the use of materials and products that may be potential contaminants in storm water. Good housekeeping practices are intended to maintain a clean, safe, and orderly working environment at the facility where these materials are used or stored. Implementing the good housekeeping BMPs will reduce the amount of pollutants entering the storm water system.

Limitations

There are no major limitations to the implementation of this BMP.

Practice		
<input type="checkbox"/>	1	Do not overfill trash dumpsters or leave trash outside of containers. Ensure that materials put into dumpsters will not leak out of dumpsters and commingle with storm water runoff. Use leak-proof dumpsters and keep covered when not in use.
<input type="checkbox"/>	2	Remove and properly dispose of debris from all areas daily.
<input type="checkbox"/>	3	Use appropriate clean up tools in the facility such as a broom for dry sweeping. Do not hose down facility floors with water or use a blower to remove clean up materials. Dry sweep or vacuum all areas to prevent tracking of materials.
<input type="checkbox"/>	4	Maintain ample spill clean-up supplies and keep them in proper physical condition.
<input type="checkbox"/>	5	Use absorbent materials to contain any non-hazardous spills. Promptly clean spills with rags or absorbent material, and properly dispose of cleaning materials. Put spent rags or absorbent material in a durable container until disposal can be facilitated. Disposal of hazardous spilled material should be in accordance with the Solid Waste Storage and Disposal BMP.
<input type="checkbox"/>	6	Inspect storm drain inlets regularly for illicit discharge such as sediment runoff or debris accumulation. Clean and remove debris as necessary.
<input type="checkbox"/>	7	Identify storm drains and waterways in each work area and prevent non-storm water discharges into the storm drainage system.
<input type="checkbox"/>	8	Perform daily facility inspections to ensure good housekeeping practices are being followed by facility personnel.
<input type="checkbox"/>	9	Conduct employee training on all best management practices annually and as required.

Best Management Practices Street Sweeping Operations

Description

Street, runway, and taxiway sweeping is performed to remove litter and debris from the vehicle and aircraft travelways in order to prevent discharge of potential pollutants into the storm water drainage system, improve safety, and improve aesthetics. DOTA HNL maintenance personnel and contractors perform street sweeping.

Limitations

Applying BMP will be controlled by weather, air and surface traffic, controlled area access, and maintenance worker safety considerations.

Practice		
<input type="checkbox"/>	1	DOTA maintenance personal will inspect and sweep applicable areas of HNL at least twice per month. When inspections or complaints indicate, sweep more frequently than twice per month.
<input type="checkbox"/>	2	Properly maintain sweepers. Adjust broom heights frequently to maximize efficiency of sweeping operations.
<input type="checkbox"/>	3	Properly transport, store, and dispose of sweeper wastes when sweeper is full and when day of sweeping completed. Empty sweepers in designated area to capture solid material and minimize wind blown materials.
<input type="checkbox"/>	4	Clean sweepers with clean water only in a contained area where water is properly treated and disposed of, such as the airport wash racks.
<input type="checkbox"/>	5	Keep logs of locations swept, tonnage of material swept, and disposal method of debris – include log with Annual Report (see attached sample log).

Best Management Practices Vehicle and Equipment Maintenance and Repair

Description

Routine maintenance of vehicles and equipment must be done to maintain their proper operation. The maintenance and repair activities conducted may include fluids removal, engine and parts cleaning, or tire repair and replacement. These activities represent a potentially significant source of contaminants due to the harmful materials and waste generated. This BMP is designed to prevent or reduce the impact of contaminants from maintenance and repair on the storm water system.

Limitations

There are no major limitations to the implementation of this BMP.

Practice		
<input type="checkbox"/>	1	Maintain vehicles and equipment used at the facility in good operating condition.
<input type="checkbox"/>	2	Perform vehicles and equipment maintenance and repair activities in designated areas. When possible indoor or covered areas away from storm water runoff or on the painted area outside the maintenance shop.
<input type="checkbox"/>	3	Inspect damaged vehicles and equipment for fluid leaks and repair as soon as possible. Use drip pans as necessary and empty when full.
<input type="checkbox"/>	4	Remove fluids and batteries from damaged equipment and equipment no longer in use before storage. Store under cover, if possible, until repair or disposal.
<input type="checkbox"/>	5	Transfer removed vehicle fluids to designated storage container as soon as possible.
<input type="checkbox"/>	6	Use drip pans, tarps, or any other drainage control whenever removing fluids to capture any releases of oil, fluids, and solvent.
<input type="checkbox"/>	7	When not in use, store drums/containers of liquid material or waste indoors or under cover and within secondary containment pallets.
<input type="checkbox"/>	8	Designate areas in service bays for parts cleaning. Allow parts to drain over solvent tank or drip pan. Do not wash or rinse parts outdoors and do not allow solvent to drip or spill onto the floor.
<input type="checkbox"/>	9	Use appropriate clean up materials in the facility. Do not hose down with water or use a blower to remove clean up materials. Dry sweep or vacuum all areas.
<input type="checkbox"/>	10	Maintain well stocked spill kits throughout the facility, especially in maintenance areas to protect discharge to receiving waters and storm drain inlets in the event of spill.
<input type="checkbox"/>	11	Conduct employee training annually and as required.

Best Management Practice Vehicle and Equipment Washing

Description

Periodic washing of vehicles and equipment may be performed at DOTA approved wash pads around the airport or within the maintenance shop that discharges to an OWS. Wash water may contain oils, greases, heavy metals, sediments, and other pollutants that can pose a threat to storm drain system and receiving water bodies. This BMP is intended to reduce the impact of these activities on storm water runoff.

Limitations

None.

Practice		
<input type="checkbox"/>	1	Wash vehicles and equipment in designated washing areas using minimal water. Use DOTA approved biodegradable detergents.
<input type="checkbox"/>	2	Ensure the designated wash racks or wash areas of the facility are inside a building or on an impervious area where wash water can be contained and directed to an OWS that drains to the sewer system, wells, or retention pond. Obtain all applicable permits.
<input type="checkbox"/>	3	Follow posted directions for wash rack or wash area use.
<input type="checkbox"/>	4	See Solid Waste Storage and Disposal BMP for OWS maintenance.
<input type="checkbox"/>	5	Where applicable, sponge wash vehicles, or equipment with a bucket of water to eliminate excess wash water. Clean up any water on the ground or the floor using absorbent materials or a wet/dry vacuum immediately after washing.
<input type="checkbox"/>	6	Washing of personal vehicles are prohibited.
<input type="checkbox"/>	7	Conduct employee training annually and as required.

Best Management Practice Vehicle and Equipment Fueling

Description

During fueling of vehicles and equipment, there is the potential for leaked or spilled fuel to contaminate storm water. The procedures outlined in this BMP are intended to prevent fuel spills and leaks and reduce their impact on storm water.

Limitations

There are no major limitations to the implementation of this BMP.

Practice		
<input type="checkbox"/>	1	Perform fueling of aircraft, vehicles, and equipment in designated areas, away from storm drain inlets, drainage channels, or receiving waters.
<input type="checkbox"/>	2	Maintain an ample supply of spill cleanup materials and spill control equipment near fueling areas to protect discharge to storm drain inlets and receiving waters, in the event of a spill. Equip fuel trucks and mobile tanks with spill cleanup materials.
<input type="checkbox"/>	3	No topping off or no unattended fueling.
<input type="checkbox"/>	4	Post proper fueling and cleanup instructions in fueling areas.
<input type="checkbox"/>	5	Do not hose off fueling area. Use absorbents.
<input type="checkbox"/>	6	Inspect storage tanks, hoses and dispensing nozzles daily for cracks and leaks. If any defects are noticed, replace defective parts immediately or remove from service until repaired.
<input type="checkbox"/>	7	Ensure that safe drains in drain inlets 5502, 5503, and 5504 are closed during fueling operations.
<input type="checkbox"/>	8	Check for proper operation of automatic shut off controls on fuel dispensing nozzles. Repair as needed.
<input type="checkbox"/>	9	Test, monitor, and maintain fuel storage tanks as required by all applicable federal, state and local laws.
<input type="checkbox"/>	10	Use absorbents materials to contain any spills. Promptly clean spills with rags or absorbent material, and properly dispose of cleaning materials. Put spent rags or absorbent material in a durable container until disposal can be facilitated. For larger spills, contact spill response personnel immediately. See Spill Prevention and Response BMP.
<input type="checkbox"/>	11	Train oil and hazardous material handling personnel annually and as required.

Best Management Practices Material Storage

Description

A variety of products and materials that may adversely affect water quality are stored at the Maintenance Baseyard. This BMP is intended to reduce the potential for the contamination of storm water by minimizing exposure of such products and materials to storm water.

Limitations

There are no major limitations to the implementation of this BMP.

Practice		
<input type="checkbox"/>	1	Store materials in their original or appropriate containers as recommended by the manufacturer. Store small containers of flammable materials within flammable storage lockers.
<input type="checkbox"/>	2	Ensure that all containers are closed, secured to prevent movement, fastened, stored neatly, and properly labeled.
<input type="checkbox"/>	3	Maintain accurate inventory of stored supplies. Periodically review inventory and properly dispose of materials that are expired or no longer used. Only purchase and store required quantities of hazardous materials.
<input type="checkbox"/>	4	Store materials and containers indoors or in covered areas. Containers holding liquid materials should also be within secondary containment.
<input type="checkbox"/>	5	Identify, list and inventory all chemical substances present in the facility. Compile Material Safety Data Sheets (MSDS) for all chemical substances. Have MSDS data readily accessible for facility employees.
<input type="checkbox"/>	6	Cover containers and materials with a plastic wrap or tarp when storing them outdoors temporarily (24 hours or less). Do not store materials outdoors that may leach pollutants into the storm water or come in contact with storm water runoff.
<input type="checkbox"/>	7	Ensure that aggregate piles are contained by CMU walls, berms, or other device to prevent the material from being carried away in the storm water runoff.
<input type="checkbox"/>	8	Maintain an ample supply of spill clean-up materials near storage areas.
<input type="checkbox"/>	9	Use absorbent materials to contain any spills. Promptly clean spills with rags or absorbent material, and properly dispose of cleaning materials. Put spent rags or absorbent material in a durable container until disposal can be facilitated. For larger spills, contact spill response personnel immediately. See Spill Response BMP.
<input type="checkbox"/>	10	Sweep or vacuum up spilled materials immediately.
<input type="checkbox"/>	11	Inspect material storage and equipment parking areas daily. Look for leaking or corroded containers, chemical discoloration, or other changes in the containers or contents that may indicate a potentially hazardous condition or chemical deterioration.
<input type="checkbox"/>	12	Conduct employee training annually and as required.

Best Management Practices Material Handling and Use

Description

Prevent or reduce the discharge of pollutants to storm water from material handling by minimizing hazardous material use on site and training employees in the proper handling and use of materials. The loading and unloading of materials usually takes place outside; therefore, materials spilled, leaked, or lost during the process may collect in the soil or on other surfaces and have the potential to be carried away by storm water runoff. Additionally, paint, chemical, and carpentry applications may impact the environment.

Limitations

There are no major limitations to the implementation of this BMP.

Practice		
<input type="checkbox"/>	1	Use materials only where and when needed to complete the work.
<input type="checkbox"/>	2	Minimize use of hazardous materials on-site. Use less hazardous, alternative materials where possible.
<input type="checkbox"/>	3	Follow manufacturer's instructions regarding uses, protective equipment, ventilation, flammability, and mixing of chemicals.
<input type="checkbox"/>	4	Limit exposure of material to rainfall whenever possible, such as only loading or unloading during dry weather or conducting the loading or unloading indoors or under cover. Avoid placing the loading area near storm drains or cover storm drains during loading or unloading operations.
<input type="checkbox"/>	5	Conduct regular dry sweeping of the loading or unloading areas.
<input type="checkbox"/>	6	Application of fertilizers, herbicides, or pesticides: <ul style="list-style-type: none"> • Do not over apply. • Prepare only the amount needed. • Follow the recommended usage instructions. • Except on steep slopes, till fertilizer into the soil rather than surface spreading or spraying it. • Apply surface dressings in several smaller applications, as opposed to one large application to allow time for infiltration and to avoid excess material being carried off-site by runoff. • Do not apply these chemicals just before it rains or in high winds. • Log material use for reporting purposes (see attached log sheets).
<input type="checkbox"/>	7	Carpentry Operations: <ul style="list-style-type: none"> • Use tools that have a vacuum or filter system to reduce airborne saw dust, whenever possible. • Sweep the area frequently to prevent saw dust from leaving the shop. • Dispose of saw dust sweepings in a covered waste bin.

**Best Management Practices
Material Handling and Use
(continued)**

<input type="checkbox"/>	8	<p>Painting Operations:</p> <ul style="list-style-type: none"> • Conduct painting indoors or in the paint booth whenever possible. <ul style="list-style-type: none"> ○ If painting must be done outdoors, such as to test striping, ensure that it is not raining. Note: if it begins to rain before the paint has dried, contain the area and clean it up according to the Spill Response BMP. • Ensure that paints are stored in sound containers to prevent leaks. • Use tarps or other containment devices to prevent paint drips from impacting the storm drains or surface waters. • Clean brushes and materials using a containment system such as solvent washer, bucket, or sink connected to the sanitary sewer. Note: never clean painting materials into the storm drain system. • Properly segregate and label waste paints for disposal according to the Solid Waste BMP. Note: oil based paints are hazardous wastes.
<input type="checkbox"/>	9	Conduct employee training annually and as required.

Best Management Practices Solid Waste Storage and Disposal

Description

The chemicals used at the airport may ultimately require waste management. The improper handling of solid wastes can allow contaminants to enter the storm water runoff. The discharge of these pollutants can be prevented and reduced by tracking solid waste storage, handling, and disposal as well as reducing the waste generation through reuse and recycling.

The solid waste generated from on the Maintenance Baseyard and collected from common areas of the airport may include, but not be limited to, oil based paints, solvents, thinners, petroleum products, acid from batteries, anti-freeze, and other compounds. Some of these wastes should be managed as hazardous waste, universal waste, and/or used oil as required by state and federal regulations (Refer to Appendix II). Hazardous waste generators are responsible for making a hazardous waste determination and to dispose of the waste properly. Universal waste includes batteries, some pesticides, mercury containing equipment (mercury thermostats), and bulbs (lamps).

The procedures outlined in this BMP are intended to prevent or reduce the discharge of pollutants to storm water and to the land from waste through proper solid waste storage and disposal and training of employees and subcontractors.

Limitations

All hazardous waste that can or cannot be reused or recycled must be disposed of by a certified hazardous waste hauler.

Practice		
<input type="checkbox"/>	1	Use the entire product before disposing of the container. Minimize use of hazardous materials on-site. Use less hazardous, alternative materials where possible.
<input type="checkbox"/>	2	Do not remove the original product label; it contains important safety and disposal information.
<input type="checkbox"/>	3	Inspect containers regularly and transfer waste from damaged containers into containers that are intact.
<input type="checkbox"/>	4	Identify, list and inventory all chemical substances present in the facility. Compile Material Safety Data Sheets (MSDS) for all chemical substances. Have MSDS data readily accessible for facility employees
<input type="checkbox"/>	5	Only purchase and store required quantities of hazardous materials.
<input type="checkbox"/>	6	Do not clean out brushes or rinse paint containers into the dirt, street, gutter, storm drain, or stream. "Paint out" brushes as much as possible. Water-based paints should be dried and disposed of in the landfill. Dispose of excess oil based paints and sludge as hazardous waste.
<input type="checkbox"/>	7	Ensure that hazardous waste or chemicals (acids, pesticides, additives, curing compounds) are not disposed of in dumpsters designated for dry construction debris.

**Best Management Practices
Solid Waste Storage and Disposal
(Continued)**

<input type="checkbox"/>	8	Designate an indoor or covered hazardous waste collection area.
<input type="checkbox"/>	9	Hazardous wastes should be stored in secure, covered containers, and protected from damage. Place hazardous waste containers in secondary containment.
<input type="checkbox"/>	10	Label hazardous waste containers clearly with the words “Hazardous Waste” and the date when the hazardous waste accumulation began.
<input type="checkbox"/>	11	Do not mix waste, this can cause chemical reactions, make recycling impossible, and complicate disposal.
<input type="checkbox"/>	12	Arrange for regular hazardous waste collection before containers reach capacity.
<input type="checkbox"/>	13	Ensure that hazardous wastes are collected, removed, and disposed of only at authorized disposal sites by an approved hazardous waste hauler. Maintain disposal manifests for a minimum on three years.
<input type="checkbox"/>	14	Recycle any useful waste such as used oil, spent solvents, spent lead acid batteries, scrap metal, and used oil filters, etc. Filter and re-use thinners and solvents.
<input type="checkbox"/>	15	If the facility generates used oil, at a minimum, the facility shall store used oil in appropriate containers, label containers clearly with the words “Used Oil”, and provide secondary containment.
<input type="checkbox"/>	16	If the facility generates Universal Waste, at a minimum, the facility shall store universal waste in appropriate containers, label containers clearly with the words “Universal Waste” followed by “lamps, batteries, etc.”, and mark with the accumulation start date. Dispose of the Universal Waste within a year of the accumulation start date.
<input type="checkbox"/>	17	Place spill cleanup materials where it will be readily accessible.
<input type="checkbox"/>	18	If containers do spill, clean up immediately – follow procedures in Spill Prevention and Response BMP.
<input type="checkbox"/>	19	At minimum, OWSs must be inspected annually and cleaned to remove accumulated oil, grease, floating debris, and sediment in order to maintain solids and petroleum removal efficiency. Maintain an inspection and maintenance log.
<input type="checkbox"/>	20	Conduct employee training annually and as required.

Best Management Practices Spill Prevention and Response Practices

Description

Spills of materials used and stored at the tenant facility can contaminate storm water runoff. The procedures outlined in this BMP are intended to prevent spills from occurring and to outline procedures to be followed in the event of a spill.

Small spills of oil (less than 25 gallons) which are capable of being cleaned up within 72 hours and that do not threaten ground or surface waters will be cleaned up using absorbent materials or other acceptable practices and disposed properly, without disrupting airport operations. All the tenants and/or their contractors are requested to report any spills (irrespective of the size) to the DOTA Airport Duty Manager (ADM). Daily inspections of the facility will identify any small spills, which will be addressed immediately.

In the event of a large or uncontrolled release, the Baseyard Supervisor shall act as the Emergency Coordinator (EC). Employees should follow the guidelines listed below where practicable.

Limitations

A spill response contractor may need to be retained to respond to large or hazardous spills.

Practice		
<input type="checkbox"/>	1	Stop work.
<input type="checkbox"/>	2	Shut down equipment and secure work operations.
<input type="checkbox"/>	3	Determine the source of the release and any hazards present.
<input type="checkbox"/>	4	Notify the EC, ADM, Security Dispatch, and ARFF. Notify and alert others of the incident via: (1) voice; (2) hand-held radios; and/or (3) other effective communication.
<input type="checkbox"/>	5	<p>The EC shall evaluate the situation and decide whether to implement a "fight or flight" response by gathering the following information, if it can be done safely:</p> <ol style="list-style-type: none"> 1. Your name, location, and how you may be reached. 2. Location of the release. 3. Type, quantity, and description of the release. 4. Hazards of the release. 5. Type of media affected (soil, asphalt, concrete, etc.). 6. Rate of the release. 7. Migratory direction of the release. 8. Potential for fire or explosion. 9. Potential for human exposure. 10. Potential for migration to surface water (ocean, storm drains, etc.).

Best Management Practices
Spill Prevention and Response Practices
(continued)

<input type="checkbox"/>	6	Keep non-essential employees and visitors away from the spill area.
<input type="checkbox"/>	7	Prevent vehicles and equipment from driving through the spill area.
<input type="checkbox"/>	8	Remove all injured persons from the area of danger and render first aid.
<input type="checkbox"/>	9	Never subject yourself or other personnel to unreasonable risk of illness or injury.
<input type="checkbox"/>	10	If the decision is to "fight," spill response personnel are to don the appropriate PPE.
<input type="checkbox"/>	11	Eliminate all possible sources of ignition/detonation such as vehicle engines, welding and grinding operations, and smoking.
<input type="checkbox"/>	12	Remove or isolate ignitable and incompatible materials from the area of the release if the spill is of a flammable substance.
<input type="checkbox"/>	13	Locate, stop, and contain the source of the release.
<input type="checkbox"/>	14	<p>Confine the release to prevent further migration using drainage controls, including but not limited to methods from the following list:</p> <ul style="list-style-type: none"> ▪ Diking and berming using sand, soil, or other inert material; ▪ Sealing storm drains with plastic and sandbags; ▪ Placing granular absorbent or absorbent pads and booms; ▪ Diverting the chemicals from entering drains, manholes, streams, etc.; and ▪ Implementing retention techniques.
<input type="checkbox"/>	15	Call the facility spill response contractor for cleanup and removal of accumulated product resulting from the release. Ensure that the contractor collects and containerizes the spilled materials, affected media, used decontamination solutions, and disposable PPE in proper containers. The contractor will transport and properly dispose of the hazardous waste in accordance with applicable state and federal regulations.
<input type="checkbox"/>	16	Implement proper decontamination procedure on vehicles, pavement, PPE, equipment, and other affected media to prevent the spilled material from being tracked into a larger area.

Best Management Practices
Spill Prevention and Response Practices
(continued)

<input type="checkbox"/>	17	Clean any stained pavement by placing a berm for containment around the stained area, scrubbing the area using detergent or cleaning agent, and rinsing. The detergent and rinse water must be collected in the bermed area around the spill and removed.
<input type="checkbox"/>	18	If the release is not readily and easily controlled, evacuation may be necessary.
<input type="checkbox"/>	19	If the EC decides on the "flight" option, the EC is to immediately alert and evacuate all personnel to a safe distance upwind from the spill in a designated assembly area.
<input type="checkbox"/>	20	Call the facility spill response contractor to handle the clean-up of the spilled material.
<input type="checkbox"/>	21	<p>DOTA personnel will assist the EC in determining whether the spill is of a reportable quantity. If the spill is of a reportable quantity, the following agencies should be notified:</p> <ul style="list-style-type: none"> ▪ National Response Center - (800) 424-8802 ▪ U.S. Coast Guard - (808) 842-2606 ▪ DOH HEER office - (808) 586-4249 or after hours (808) 247-2191 ▪ DOH Clean Water Branch (CWB) – (808) 586-4309 (only if spill reaches state waters) <p>The following information should be provided:</p> <ol style="list-style-type: none"> 1) Caller Name, location, organization, and telephone number 2) Name, address, and telephone number of the facility owner 3) Name, address, and telephone number of the facility contact person 4) Date, time, and duration of the release 5) Date and time the release was discovered 6) Name of the chemical spilled and the approximate quantity released 7) Location of the release 8) Type of media affected (e.g. soil, asphalt, concrete, etc.) 9) Measures taken in response to the release 10) Danger or threat posed by the release or spill 11) Number and type of injuries (if any) 12) Weather conditions at the incident location 13) Any other information that may help emergency personnel respond to the incident
<input type="checkbox"/>	22	If the spilled material is of a reportable quantity, a written notification must also be submitted to the DOH HEER no later than thirty (30) days following the discovery of the release. A copy of this report must be provided to the DOH CWB if the spilled material reached the state waters.

APPENDIX I
LIST OF APPLICABLE FEDERAL, STATE, AND LOCAL
REGULATIONS APPLYING TO
ENVIRONMENTAL COMPLIANCE AT AIRPORTS

LIST OF REGULATIONS

Code of Federal Regulations

- 29 CFR 1910 (Subparts G, H, I, J, and K,) Hazardous Materials, Environmental Controls, and Personnel Protection.
- 29 CFR 1910.1200 OSHA Hazard Communication Standard
- 40 CFR 110 Discharge of Oil
- 40 CFR 112 Oil Pollution Prevention (SPCC/OPA Plans)
- 40 CFR 117 Determination of Reportable Quantities for a Hazardous Substance
- 40 CFR 122-124, 401 NPDES Regulations for Stormwater Discharges
- 40 CFR 260-263 Hazardous Waste Management
- 40 CFR 273 Universal Waste Management
- 40 CFR 279 Used Oil Management
- 40 CFR 280 Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks (UST)
- 40 CFR 355 Emergency Planning and Notification
- 40 CFR 370 Hazardous Chemical Reporting: Community Right-to-Know
- 40 CFR 372 Toxic Chemical Release Reporting: Community Right-to-Know
- 40 CFR 403 General Pre-Treatment Regulations For Existing And New Sources Of Pollution
- 40 CFR 761 Toxic Substances (PCBs)
- 49 CFR 110.3 Discharge of Oil
- 49 CFR 171-173, 175, and 177 Department of Transportation Regulations

Hawaii Administrative Rules

- HAR Title 11 Chapter 54 Water Quality Standards
- HAR Title 11 Chapter 55 Water Pollution Controls
- HAR Title 11 Chapter 58.1 Solid Waste Management Control
- HAR Title 11 Chapter 62 Wastewater Systems
- HAR Title 11 Chapter 104.1 Management and Disposal of Infectious Waste
- HAR Title 11 Chapter 260-263 Hazardous Waste Management
- HAR Title 11 Chapter 273 Universal Waste Management
- HAR Title 11 Chapter 279 Used Oil Management
- HAR Title 11 Chapter 281 Underground Storage Tanks
- HAR Title 11 Chapter 451 State Contingency Plan
- HAR Title 19 Department of Transportation, Airports Division

Hawaii Revised Statutes

HRS 128D Environmental Response Law

HRS 128E Hawaii Emergency Planning and Community Right-to-Know Act

HRS 174C State Water Code

HRS 261 Transportation and Utilities

HRS 342-D Water Pollution

HRS 342-G Integrated Solid Waste Management

HRS 342-H Solid Waste Pollution

HRS 342-I Special Waste Management

HRS 342-J Hazardous Waste

HRS 342-L Underground Storage Tanks

HRS 342-N Used Oil Recycling

City and County Ordinances

City and County of Honolulu Sewer Ordinance 14

Airport Rules

Property Management Clauses

APPENDIX II
SUMMARY OF FEDERAL AND STATE REGULATIONS
FOR SOLID WASTE MANAGEMENT

Solid waste is defined in 40 CFR Part 261.2 of the RCRA regulations as well as the HAR Title 11, Chapter 261.2 (§11-261-2). Solid waste can be further classified into hazardous waste and non-hazardous waste. Hazardous waste is defined in 40 CFR Part 261.3 as well as §11-261-3. Hazardous wastes are divided into listed wastes, characteristic wastes, universal wastes, and mixed wastes. Hazardous waste generators are responsible for making a hazardous waste determination and to dispose of waste properly. The identification and listing of hazardous waste and standards applicable to hazardous waste generators are available in the 40 CFR Parts 261 and 262 as well as §11-261 and §11-262. The facility can determine their hazardous waste generator status based on the following table:

Table 1 – Hazardous Waste Generator Status, Quantity, and Accumulation Time

Hazardous Waste Generator Status	Quantity Of Hazardous Waste Generated Per Calendar Month	On-site Accumulation Time
Large Quantity (LQG)	<ul style="list-style-type: none"> • \geq 1,000 kg (approximately 2,200 lbs); • $>$ 1 kg (approximately 2.2 lbs) of acute hazardous waste; and • $>$ 100 kg (approximately 220 lbs.) residue or contaminated soil from cleanup of acute hazardous waste spill. 	\leq 90 days
Small Quantity (SQG)	<ul style="list-style-type: none"> • Between 100 kg (approximately 220 lbs) and 1,000 kg (approximately 2200 lbs); • $<$ 1 kg (approximately 2.2 lbs) of acute hazardous waste; • \leq 100 kg (approximately 220 lbs.) residue or contaminated soil from cleanup of acute hazardous waste spill; and • Never accumulate more than 6,000 kg (approximately 13,200 lbs) at any one time. 	\leq 270 days (for Hawaii, since hazardous waste is shipped 200 miles or more)
Conditionally Exempt Small Quantity (CESQG)	<ul style="list-style-type: none"> • \leq 100 kg (approximately 220 lbs) • $<$ 1 kg (approximately 2.2 lbs) of acute hazardous waste; • \leq 100 kg (approximately 220 lbs.) residue or contaminated soil from cleanup of acute hazardous waste spill; and <p>Never accumulate more than 1,000 kg (approximately 2,200 lbs) at any one time.</p>	Not applicable

Universal Waste, as defined in 40 CFR Part 273 and §11-273, includes batteries, some pesticides, mercury containing equipment (mercury thermostats), and bulbs (lamps). The Universal Waste rules are not applicable to the conditionally exempt small quantity generators of hazardous waste. Universal Waste handlers are classified into small quantity Universal Waste handlers and large quantity Universal Waste handlers. A small quantity handler of universal waste means a universal waste handler who does not accumulate more than 5,000 kilograms (approximately 11,000 lbs) total of universal waste (batteries, pesticides, or thermostats, calculated collectively) at any time (§11-273-6). A large quantity handler of universal waste means a universal waste handler who accumulates 5,000 kilograms or more total of universal waste (batteries, pesticides, or thermostats, calculated collectively) at any time (§11-273-6). This designation as a large quantity handler of universal waste is retained through the end of the calendar year in which 5,000 kilograms or more total of universal waste is accumulated.

Universal Waste must be managed in a way that prevents releases of any Universal Waste or component of a Universal Waste to the environment. Universal Waste must be labeled or marked to identify the type of universal waste as follows: Universal Waste - Batteries, Universal Waste - Lamps, Universal Waste – Pesticides, and Universal Waste – Mercury Containing Equipment or Universal Waste – Mercury Thermostat. Universal Waste can be stored for one year starting from the date the universal waste was generated. A large quantity Universal Waste handler shall retain the non-hazardous waste manifest associated with Universal Waste disposal at the facility for three years. A small quantity Universal Waste handler is not required to keep records of shipments of universal waste.

Used oil, as defined in 40 CFR Part 279.1 and §11-279-1, is regulated under the 40 CFR Part 279, §11-279, and §11-261-6(a)(4). Containers and aboveground tanks used to store used oil as well as fill pipes used to transfer used oil into UST at generator facilities must be labeled or marked clearly with the words “Used Oil”. Additionally, used oil generators are subject to all applicable SPCC requirements (40 CFR Part 112). Used oil generators are also subject to the State’s UST standards and any applicable federal standards for used oil stored in underground tanks whether or not the used oil exhibits any characteristics of hazardous waste.

Appendix C

Storm Water Monitoring DMRs

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 NAME State of Hawaii - Dept. of Transportation, Airports Division
 ADDRESS 869 Punchbowl Street
 Honolulu Hawaii 96813-5097

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

Form Approved
 OMB No. 2040-0004

HI S000005
 PERMIT NUMBER

HNL 003
 DISCHARGE NUMBER

Asset Number/Description:
 HNL Baseyard SD9328
 Sample date 1/14/13

FACILITY Honolulu International Airport
 LOCATION 400 Rodgers Boulevard, Suite 700
 Honolulu, Hawaii 96819-1880

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
2013	01	01	TO	2013	12	31

Check here if No Discharge

NOTE: Read instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		VALUE AVERAGE	VALUE MAXIMUM	UNITS	VALUE MINIMUM	VALUE AVERAGE	VALUE MAXIMUM	UNITS				
Flow (Q)	SAMPLE MEASUREMENT					108,000						
	PERMIT REQUIREMENT					Report				1/365	ES	
Biological O2 Demand (BOD-5)	SAMPLE MEASUREMENT					3.64						
	PERMIT REQUIREMENT					Report				1/365	CP	
Chemical O2 Demand (COD)	SAMPLE MEASUREMENT					110						
	PERMIT REQUIREMENT					Report				1/365	CP	
Nitrogen of Nitrate and Nitrite	SAMPLE MEASUREMENT					.21						
	PERMIT REQUIREMENT					Report				1/365	CP	
Nitrogen, Total	SAMPLE MEASUREMENT					1.2						
	PERMIT REQUIREMENT					Report				1/365	CP	
Phosphorus, Total	SAMPLE MEASUREMENT					.31						
	PERMIT REQUIREMENT					Report				1/365	CP	
Total Suspended Solids (TSS)	SAMPLE MEASUREMENT					150						
	PERMIT REQUIREMENT					Report				1/365	CP	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		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.						TELEPHONE		DATE		
GLENN M. OKIMOTO, Ph.D. Director of Transportation								808 587-2150				
TYPED OR PRINTED								SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
 NAME State of Hawaii - Dept. of Transportation, Airports Division

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

Form Approved.
 OMB No. 2040-0004

ADDRESS 869 Punchbowl Street
 Honolulu Hawaii 96813-5097

HI S000005
 PERMIT NUMBER

HNL 003
 DISCHARGE NUMBER

Asset Number/Description:
 HNL Baseyard SD9328
 Sampling date 1/14/13

FACILITY Honolulu International Airport
 LOCATION 400 Rodgers Boulevard, Suite 700
 Honolulu, Hawaii 96819-1880

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2012	01	01	TO	2013	12 31

Check here if No Discharge

NOTE: Read Instructions before completing this form

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE		
		VALUE AVERAGE	VALUE MAXIMUM	UNITS	VALUE MINIMUM	VALUE AVERAGE	VALUE MAXIMUM	UNITS					
Oil and Grease (O&G) / HEM	SAMPLE MEASUREMENT					<5.2							
	PERMIT REQUIREMENT						15			1/365	GR		
pH	SAMPLE MEASUREMENT					7.70							
	PERMIT REQUIREMENT				5.5		8.0			1/365	GR		
Total Dissolved Solids (TDS)	SAMPLE MEASUREMENT					4200							
	PERMIT REQUIREMENT					Report				1/365	GR		
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
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	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		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.							TELEPHONE		DATE		
GLENN M. OKIMOTO, Ph.D. Director of Transportation									808 587-2150				
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT							AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Honolulu

99-193 Aiea Heights Drive, Suite 121

Aiea, HI 96701

Tel: 808-486-5227

TestAmerica Job ID: HWA0037

Client Project/Site: HNL Baseyard

Client Project Description: Airport Stormwater

For:

Department of Transportation, Airports

400 Rodgers Blvd. Ste. 700

Honolulu, HI 96819

Attn: Joe Balignasay



Authorized for release by:

2/7/2013 9:57:59 AM

Kristie Reilly

Project Manager

Kristie.Brachmann@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Department of Transportation, Airports
Project/Site: HNL Baseyard

TestAmerica Job ID: HWA0037

Qualifiers

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Department of Transportation, Airports
Project/Site: HNL Baseyard

TestAmerica Job ID: HWA0037

Job ID: HWA0037

Laboratory: TestAmerica Honolulu

Narrative

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory unless otherwise stated in the report. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. TestAmerica Analytical Testing Corporation certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain(s) of Custody are included and are an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(808)486-5227

LABORATORY REPORT

At sample receipt, the cooler/sample was 24 degrees C.

NELAC states that samples which require thermal preservation shall be considered acceptable if the arrival temperature is within 2 degrees C of the required temperature or the method specified range. For samples with a temperature requirement of 4 degrees C, an arrival temperature from 0 degrees C to 6 degrees C meets specifications. Samples that are delivered to the laboratory on the same day that they are collected may not meet these criteria. In these cases, the samples are considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted.

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-35255-1

Comments

No additional comments.

Receipt

The samples were received on 1/16/2013 2:44 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.1° C, 4.3° C and 5.0° C.

General Chemistry

Method(s) 1664A: Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 80332. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No other analytical or quality issues were noted.

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: TestAmerica Laboratories, Inc

Project: HWA0037 - DOT Airports

Report Number: 680-86613-5

Case Narrative

Client: Department of Transportation, Airports
Project/Site: HNL Baseyard

TestAmerica Job ID: HWA0037

Job ID: HWA0037 (Continued)

Laboratory: TestAmerica Savannah (Continued)

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 01/17/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.0 & 3.6 C.

TOTAL KJELDAHL NITROGEN (TKN)

Sample HWA0037-01 (680-86613-7) was analyzed for total kjeldahl nitrogen (TKN) in accordance with EPA Method 351.2. The samples were prepared on 01/22/2013 and analyzed on 01/23/2013.

No difficulties were encountered during the TKN analysis.

All quality control parameters were within the acceptance limits.

NITRATE-NITRITE AS NITROGEN

Sample HWA0037-01 (680-86613-7) was analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 01/24/2013.

No difficulties were encountered during the nitrate-nitrite analysis.

All quality control parameters were within the acceptance limits.

TOTAL PHOSPHORUS

Sample HWA0037-01 (680-86613-7) was analyzed for total phosphorus in accordance with EPA Method 365.4. The samples were prepared on 01/22/2013 and analyzed on 01/23/2013.

No difficulties were encountered during the total phosphorus analysis.

All quality control parameters were within the acceptance limits.

CHEMICAL OXYGEN DEMAND

Sample HWA0037-01 (680-86613-7) was analyzed for chemical oxygen demand in accordance with EPA Method 410.4. The samples were analyzed on 01/28/2013.

No difficulties were encountered during the COD analysis.

All quality control parameters were within the acceptance limits.

TOTAL NITROGEN BY CALCULATION

Sample HWA0037-01 (680-86613-7) was analyzed for total nitrogen by calculation in accordance with a calculated method. The samples were analyzed on 01/28/2013.

No difficulties were encountered during the Total Nitrogen analysis.

All quality control parameters were within the acceptance limits.



Sample Summary

Client: Department of Transportation, Airports
Project/Site: HNL Baseyard

TestAmerica Job ID: HWA0037

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
HWA0037-01	HNL BASEYARD	Water - NonPotable	01/14/13 10:50	01/14/13 14:15

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Detection Summary

Client: Department of Transportation, Airports
 Project/Site: HNL Baseyard

TestAmerica Job ID: HWA0037

Client Sample ID: HNL BASEYARD

Lab Sample ID: HWA0037-01

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrogen, Kjeldahl	1.0		0.20	0.15	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.21		0.050	0.010	mg/L	1		353.2	Total/NA
Phosphorus	0.31		0.10	0.024	mg/L	1		365.4	Total/NA
Chemical Oxygen Demand	110		20	6.3	mg/L	1		410.4	Total/NA
Total Dissolved Solids	4200		100		mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	150		1.0		mg/L	1		SM 2540D LL	Total/NA
pH - measured in lab not in field	7.70		1.00		pH Units	1.00		EPA 150.1	Total
BOD - 5 Day	3.64		2.00		mg/L	1.00		SM5210B	Total
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Nitrogen, Total	1.2		0.25	0.25	mg/L	1		Total Nitrogen	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Honolulu



Client Sample Results

Client: Department of Transportation, Airports
 Project/Site: HNL Baseyard

TestAmerica Job ID: HWA0037

Client Sample ID: HNL BASEYARD

Lab Sample ID: HWA0037-01

Date Collected: 01/14/13 10:50

Matrix: Water - NonPotable

Date Received: 01/14/13 14:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane Extractable Material (Oil and Grease)	ND		5.2		mg/L		01/23/13 04:37	01/23/13 05:00	1
Nitrogen, Kjeldahl	1.0		0.20	0.15	mg/L		01/22/13 12:35	01/23/13 14:11	1
Nitrate Nitrite as N	0.21		0.050	0.010	mg/L			01/24/13 13:55	1
Phosphorus	0.31		0.10	0.024	mg/L		01/22/13 12:35	01/23/13 14:11	1
Chemical Oxygen Demand	110		20	6.3	mg/L			01/28/13 11:49	1
Total Dissolved Solids	4200		100		mg/L			01/21/13 10:24	1
Total Suspended Solids	150		1.0		mg/L			01/17/13 13:48	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Total	1.2		0.25	0.25	mg/L			01/28/13 09:51	1

Method: EPA 150.1 - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH - measured in lab not in field	7.70		1.00		pH Units		01/14/13 18:18	01/14/13 18:18	1.00

Method: SM5210B - General Chemistry Parameters

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BOD - 5 Day	3.64		2.00		mg/L		01/16/13 09:40	01/21/13 10:01	1.00

QC Sample Results

Client: Department of Transportation, Airports
Project/Site: HNL Baseyard

TestAmerica Job ID: HWA0037

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 440-80331/1-A

Matrix: Water

Analysis Batch: 80332

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80331

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexane Extractable Material (Oil and Grease)	ND		5.0		mg/L		01/23/13 04:37	01/23/13 05:00	1

Lab Sample ID: LCS 440-80331/2-A

Matrix: Water

Analysis Batch: 80332

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80331

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexane Extractable Material (Oil and Grease)	20.0	16.4		mg/L		82	78 - 114

Lab Sample ID: LCSD 440-80331/3-A

Matrix: Water

Analysis Batch: 80332

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 80331

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexane Extractable Material (Oil and Grease)	20.0	17.2		mg/L		86	78 - 114	5	11

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 680-263592/2-A

Matrix: Water

Analysis Batch: 263753

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 263592

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.20	U	0.20	0.15	mg/L		01/22/13 12:35	01/23/13 14:07	1

Lab Sample ID: LCS 680-263592/1-A

Matrix: Water

Analysis Batch: 263753

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 263592

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	2.00	2.22		mg/L		111	75 - 125

Lab Sample ID: 680-86613-7 DU

Matrix: Water

Analysis Batch: 263753

Client Sample ID: HWA0037-01

Prep Type: Total/NA

Prep Batch: 263592

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrogen, Kjeldahl	1.0		0.768		mg/L		27	40

TestAmerica Honolulu

QC Sample Results

Client: Department of Transportation, Airports
Project/Site: HNL Baseyard

TestAmerica Job ID: HWA0037

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-263967/13

Matrix: Water

Analysis Batch: 263967

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.050	U	0.050	0.010	mg/L	-		01/24/13 13:37	1

Lab Sample ID: LCS 680-263967/14

Matrix: Water

Analysis Batch: 263967

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.997	1.03		mg/L	-	104	90 - 110

Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 680-263592/2-A

Matrix: Water

Analysis Batch: 263752

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 263592

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.10	U	0.10	0.024	mg/L	-	01/22/13 12:35	01/23/13 14:07	1

Lab Sample ID: LCS 680-263592/1-A

Matrix: Water

Analysis Batch: 263752

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 263592

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	2.00	2.18		mg/L	-	109	60 - 140

Lab Sample ID: 680-86613-7 DU

Matrix: Water

Analysis Batch: 263752

Client Sample ID: HWA0037-01

Prep Type: Total/NA

Prep Batch: 263592

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Phosphorus	0.31		0.311		mg/L	-	0.6	40

Method: 410.4 - COD

Lab Sample ID: MB 680-264256/3

Matrix: Water

Analysis Batch: 264256

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	20	U	20	6.3	mg/L	-		01/28/13 11:49	1

Lab Sample ID: LCS 680-264256/4

Matrix: Water

Analysis Batch: 264256

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	100	94.7		mg/L	-	95	90 - 110

TestAmerica Honolulu

QC Sample Results

Client: Department of Transportation, Airports
Project/Site: HNL Baseyard

TestAmerica Job ID: HWA0037

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 440-79979/1
Matrix: Water
Analysis Batch: 79979

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10		mg/L			01/21/13 10:22	1

Lab Sample ID: LCS 440-79979/2
Matrix: Water
Analysis Batch: 79979

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1000	1000		mg/L		100	90 - 110

Lab Sample ID: 440-35195-A-1 DU
Matrix: Water
Analysis Batch: 79979

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	5800		5580		mg/L		4	10

Method: SM 2540D LL - Solids, Total Suspended (TSS)

Lab Sample ID: MB 440-79507/1
Matrix: Water
Analysis Batch: 79507

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0		mg/L			01/17/13 13:48	1

Lab Sample ID: LCS 440-79507/2
Matrix: Water
Analysis Batch: 79507

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	1000	984		mg/L		98	85 - 115

Lab Sample ID: 440-35125-A-1 DU
Matrix: Water
Analysis Batch: 79507

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	30		29.5		mg/L		2	10

Method: EPA 150.1 - General Chemistry Parameters

Lab Sample ID: 13A0013-DUP1
Matrix: Water - NonPotable
Analysis Batch: 13A0013

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 13A0013_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	RPD Limit
pH - measured in lab not in field	7.86		7.88		pH Units		0.3	20

TestAmerica Honolulu

QC Sample Results

Client: Department of Transportation, Airports
 Project/Site: HNL Baseyard

TestAmerica Job ID: HWA0037

Method: SM5210B - General Chemistry Parameters

Lab Sample ID: 13A0015-BLK1
Matrix: Water - NonPotable
Analysis Batch: 13A0015

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 13A0015_P

Analyte	Blank Result	Blank Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BOD - 5 Day	ND		2.00		mg/L		01/16/13 09:19	01/21/13 09:38	1.00

Lab Sample ID: 13A0015-BS1
Matrix: Water - NonPotable
Analysis Batch: 13A0015

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 13A0015_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
BOD - 5 Day	198	218		mg/L		110	85 - 115

Lab Sample ID: 13A0015-DUP1
Matrix: Water - NonPotable
Analysis Batch: 13A0015

Client Sample ID: Duplicate
Prep Type: Total
Prep Batch: 13A0015_P

Analyte	Sample Result	Sample Qualifier	Duplicate Result	Duplicate Qualifier	Unit	D	RPD	Limit
BOD - 5 Day	5.44		6.13		mg/L		12	20

QC Association Summary

Client: Department of Transportation, Airports
 Project/Site: HNL Baseyard

TestAmerica Job ID: HWA0037

General Chemistry

Analysis Batch: 79507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-35125-A-1 DU	Duplicate	Total/NA	Water	SM 2540D LL	
HWA0037-01	HNL BASEYARD	Total/NA	Water - NonPotable	SM 2540D LL	
LCS 440-79507/2	Lab Control Sample	Total/NA	Water	SM 2540D LL	
MB 440-79507/1	Method Blank	Total/NA	Water	SM 2540D LL	

Analysis Batch: 79979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-35195-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	
HWA0037-01	HNL BASEYARD	Total/NA	Water - NonPotable	SM 2540C	
LCS 440-79979/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 440-79979/1	Method Blank	Total/NA	Water	SM 2540C	

Prep Batch: 80331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HWA0037-01	HNL BASEYARD	Total/NA	Water - NonPotable	1664A	
LCS 440-80331/2-A	Lab Control Sample	Total/NA	Water	1664A	
LCSD 440-80331/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	
MB 440-80331/1-A	Method Blank	Total/NA	Water	1664A	

Analysis Batch: 80332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HWA0037-01	HNL BASEYARD	Total/NA	Water - NonPotable	1664A	80331
LCS 440-80331/2-A	Lab Control Sample	Total/NA	Water	1664A	80331
LCSD 440-80331/3-A	Lab Control Sample Dup	Total/NA	Water	1664A	80331
MB 440-80331/1-A	Method Blank	Total/NA	Water	1664A	80331

Prep Batch: 263592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86613-7 DU	HWA0037-01	Total/NA	Water	Digestion	
HWA0037-01	HNL BASEYARD	Total/NA	Water - NonPotable	Digestion	
LCS 680-263592/1-A	Lab Control Sample	Total/NA	Water	Digestion	
MB 680-263592/2-A	Method Blank	Total/NA	Water	Digestion	

Analysis Batch: 263752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86613-7 DU	HWA0037-01	Total/NA	Water	365.4	263592
HWA0037-01	HNL BASEYARD	Total/NA	Water - NonPotable	365.4	263592
LCS 680-263592/1-A	Lab Control Sample	Total/NA	Water	365.4	263592
MB 680-263592/2-A	Method Blank	Total/NA	Water	365.4	263592

Analysis Batch: 263753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-86613-7 DU	HWA0037-01	Total/NA	Water	351.2	263592
HWA0037-01	HNL BASEYARD	Total/NA	Water - NonPotable	351.2	263592
LCS 680-263592/1-A	Lab Control Sample	Total/NA	Water	351.2	263592

TestAmerica Honolulu

QC Association Summary

Client: Department of Transportation, Airports
Project/Site: HNL Baseyard

TestAmerica Job ID: HWA0037

General Chemistry (Continued)

Analysis Batch: 263753 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-263592/2-A	Method Blank	Total/NA	Water	351.2	263592

Analysis Batch: 263967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HWA0037-01	HNL BASEYARD	Total/NA	Water - NonPotable	353.2	
LCS 680-263967/14	Lab Control Sample	Total/NA	Water	353.2	
MB 680-263967/13	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 264153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HWA0037-01	HNL BASEYARD	Total/NA	Water - NonPotable	Total Nitrogen	

Analysis Batch: 264256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HWA0037-01	HNL BASEYARD	Total/NA	Water - NonPotable	410.4	
LCS 680-264256/4	Lab Control Sample	Total/NA	Water	410.4	
MB 680-264256/3	Method Blank	Total/NA	Water	410.4	

WetChem

Analysis Batch: 13A0013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
13A0013-DUP1	Duplicate	Total	Water - NonPotable	EPA 150.1	13A0013_P
HWA0037-01	HNL BASEYARD	Total	Water - NonPotable	EPA 150.1	13A0013_P

Analysis Batch: 13A0015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
13A0015-BLK1	Method Blank	Total	Water - NonPotable	SM5210B	13A0015_P
13A0015-BS1	Lab Control Sample	Total	Water - NonPotable	SM5210B	13A0015_P
13A0015-DUP1	Duplicate	Total	Water - NonPotable	SM5210B	13A0015_P
HWA0037-01	HNL BASEYARD	Total	Water - NonPotable	SM5210B	13A0015_P

Prep Batch: 13A0013_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
13A0013-DUP1	Duplicate	Total	Water - NonPotable	Default Prep GenChem	
HWA0037-01	HNL BASEYARD	Total	Water - NonPotable	Default Prep GenChem	

Prep Batch: 13A0015_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
13A0015-BLK1	Method Blank	Total	Water - NonPotable	Default Prep GenChem	
13A0015-BS1	Lab Control Sample	Total	Water - NonPotable	Default Prep GenChem	

TestAmerica Honolulu

QC Association Summary

Client: Department of Transportation, Airports
Project/Site: HNL Baseyard

TestAmerica Job ID: HWA0037

WetChem (Continued)

Prep Batch: 13A0015_P (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
13A0015-DUP1	Duplicate	Total	Water - NonPotable	Default Prep GenChem	
HWA0037-01	HNL BASEYARD	Total	Water - NonPotable	Default Prep GenChem	

- 1
- 2
- 3
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- 11
- 12
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Lab Chronicle

Client: Department of Transportation, Airports
 Project/Site: HNL Baseyard

TestAmerica Job ID: HWA0037

Client Sample ID: HNL BASEYARD

Lab Sample ID: HWA0037-01

Date Collected: 01/14/13 10:50

Matrix: Water - NonPotable

Date Received: 01/14/13 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D LL		1	79507	01/17/13 13:48	DK	TAL IRV
Total/NA	Analysis	SM 2540C		1	79979	01/21/13 10:24	XL	TAL IRV
Total/NA	Prep	1664A			80331	01/23/13 04:37	DA	TAL IRV
Total/NA	Analysis	1664A		1	80332	01/23/13 05:00	DA	TAL IRV
Total/NA	Prep	Digestion			263592	01/22/13 12:35	AJO	TAL SAV
Total/NA	Analysis	365.4		1	263752	01/23/13 14:11	JR	TAL SAV
Total/NA	Analysis	351.2		1	263753	01/23/13 14:11	JR	TAL SAV
Total/NA	Analysis	353.2		1	263967	01/24/13 13:55	JNC	TAL SAV
Total/NA	Analysis	Total Nitrogen		1	264153	01/28/13 09:51	JR	TAL SAV
Total/NA	Analysis	410.4		1	264256	01/28/13 11:49	TAR	TAL SAV
Total	Prep	Default Prep GenChem		1.00	13A0015_P	01/16/13 09:40	NK	TAL HON
Total	Analysis	SM5210B		1.00	13A0015	01/21/13 10:01	NK	TAL HON
Total	Analysis	EPA 150.1		1.00	13A0013	01/14/13 18:18	NK	TAL HON
Total	Prep	Default Prep GenChem		1.00	13A0013_P	01/14/13 18:18	NK	TAL HON

Laboratory References:

TAL HON = TestAmerica Honolulu, 99-193 Aiea Heights Drive, Suite 121, Aiea, HI 96701, TEL 808-486-5227

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Certification Summary

Client: Department of Transportation, Airports
Project/Site: HNL Baseyard

TestAmerica Job ID: HWA0037

Laboratory: TestAmerica Honolulu

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E87907	06-30-13
Hawaii	State Program	9	N/A	06-28-13
USDA	Federal		HON-S-206	01-31-15

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-13
Arizona	State Program	9	AZ0671	10-13-13
California	LA Cty Sanitation Districts	9	10256	01-31-14
California	NELAP	9	1108CA	01-31-13
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-23-13
Hawaii	State Program	9	N/A	01-31-13
Nevada	State Program	9	CA015312007A	07-31-13
New Mexico	State Program	6	N/A	01-31-13
Northern Mariana Islands	State Program	9	MP0002	01-31-13
Oregon	NELAP	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14
USEPA UCMR	Federal	1	CA01531	01-31-15

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	02-28-13
A2LA	ISO/IEC 17025		399.01	02-28-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
Arkansas DEQ	State Program	6	88-0692	02-01-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-12
Connecticut	State Program	1	PH-0161	03-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-12
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	02-28-13
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-12
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13

TestAmerica Honolulu

Certification Summary

Client: Department of Transportation, Airports
 Project/Site: HNL Baseyard

TestAmerica Job ID: HWA0037

Laboratory: TestAmerica Savannah (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Montana	State Program	8	CERT0081	12-31-12
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-13
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-12
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Method Summary

Client: Department of Transportation, Airports
Project/Site: HNL Baseyard

TestAmerica Job ID: HWA0037

Method	Method Description	Protocol	Laboratory
1664A	HEM and SGT-HEM	1664A	TAL IRV
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SAV
365.4	Phosphorus, Total	EPA	TAL SAV
410.4	COD	MCAWW	TAL SAV
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL IRV
SM 2540D LL	Solids, Total Suspended (TSS)	SM	TAL IRV
Total Nitrogen	Nitrogen, Total	EPA	TAL SAV
EPA 150.1	General Chemistry Parameters		TAL HON
SM5210B	General Chemistry Parameters		TAL HON

Protocol References:

1664A = EPA-821-98-002

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL HON = TestAmerica Honolulu, 99-193 Aiea Heights Drive, Suite 121, Aiea, HI 96701, TEL 808-486-5227

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

DOD QSM Required?

Report to MDL with J Flag values?

Chain of Custody / Analysis Request Form

Report to:		Project identification		Indicate analyses requested	
Company name <u>Joe Balignasay - AIR-EE</u>		Job name			
Address <u>HDO TA - AIR-EE (Env't Section)</u>		Job number			
City <u>Honolulu, HI</u>		PO number			
State <u>HI</u>		Date results needed			
Zip <u>96811</u>		Contact email address <u>Jose M. Balignasay@hawaii.gov</u>			
Phone <u>838-8064</u>		Matrix			
Fax <u>Joe Balignasay</u>		Drinking water			
# samples in shipment		Wastewater			
		Soil			
		Water			
		Grab			
		Composite			
		Multi Incremental			
Client sample ID <u>HNL Base yard</u>		Preservation method			
		Oil			
		Solid			
		Liquid			
		Sludge			
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Appendix D

Industrial Wastewater Discharge Permit

DEPARTMENT OF ENVIRONMENTAL SERVICES
CITY AND COUNTY OF HONOLULU
DIVISION OF ENVIRONMENTAL QUALITY
1000 ULUOHIA STREET, SUITE 303 • KAPOLEI, HAWAII 96707
Website: <http://envhonolulu.org>

PETER B. CARLISLE
MAYOR



TIMOTHY E. STEINBERGER, P.E.
DIRECTOR

SILVESTRE L. ULEP, P.E.
CHIEF

EARL W.M. NG, P.E.
ASSISTANT CHIEF
EQ 12-357

September 6, 2012

State Department of Transportation, Airport Division
Honolulu International Airport
300 Rodgers Boulevard
Honolulu, Hawaii 96819

Gentlemen:

Subject: Industrial Wastewater Discharge Permit (IWDP)

Enclosed is the subject Permit which allows wastewater discharge into the City Sewer. This Permit shall be kept on file at your place of business and is not transferable without written consent. If any change in the wastewater discharge or use of the facilities is anticipated, you must apply for an amended Permit. It is your responsibility to ensure that all waste from your operation is properly collected, recycled, or disposed in accordance with all applicable regulations.

Please apply with the City and County of Honolulu's, Department of Environmental Services to renew your Permit at least 90 days prior to your Permit expiration date.

If you have any questions, please contact our Regulatory Control Branch at 768-3262.

Sincerely

A handwritten signature in black ink, appearing to read "Earl W. M. Ng".

Earl W. M. Ng
Assistant Chief

Enclosure: IWDP

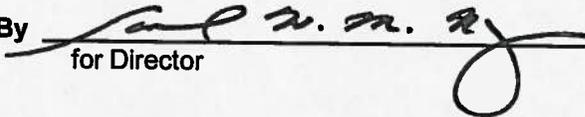
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

CITY AND COUNTY OF HONOLULU
DEPARTMENT OF ENVIRONMENTAL SERVICES

Permit No. 20120341

Expiration Date: 09/03/2017

Issued By


for Director

Effective Date: 09/04/2012

This Permit grants authorization to the Industrial User (hereinafter referred to as "IU") named below to discharge industrial wastewater into the City and County of Honolulu's publicly owned treatment works (hereinafter referred to as "POTW"). This Permit may be revoked or suspended by the Department of Environmental Services of the City and County of Honolulu (hereinafter referred to as "ENV") in the event that the IU fails to comply with the Permit Conditions, Discharge Limits, or General Provisions contained herein. A COPY OF THIS PERMIT MUST REMAIN ON THE PREMISES OF THE INDUSTRIAL USER INDICATED BELOW.

INDUSTRIAL USER: STATE DEPARTMENT OF TRANSPORTATION
AIRPORT DIVISION
DISCHARGE LOCATION: HONOLULU INTERNATIONAL AIRPORT
300 RODGERS BLVD.
HONOLULU, HI 96819

PERMIT CONDITIONS

1. The IU is subject to regulation and enforcement by the ENV in accordance with all regulatory requirements pertaining to indirect discharges into the POTW including, but not limited to the following together with any amendments: Chapter 14 (hereinafter referred to as the "Sewer Ordinance") of the Revised Ordinances of Honolulu, applicable Pretreatment Standards and requirements as set forth in Title 40 of the Code of Federal Regulations, Sections 204(b) and 403 of the Federal Water Pollution Control Act, Subtitles C and D of the Resource Conservation and Recovery Act, and the State of Hawaii Water Quality Standards.
2. The IU is limited to wastewater discharge only through City and County of Honolulu approved fixed connections from the Discharge Location set forth above in this Permit.
3. The Standard Industrial Classification of the IU is determined to be:
4581 – AIRPORTS, FLYING FIELDS, & AIRPORT TERMINAL SERVICES

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT CONDITIONS

Continued

4. **PRETREATMENT:** The IU shall install, maintain, and operate the following wastewater pretreatment devices to pretreat its industrial process wastewater in order to comply with all Discharge Limits prior to discharge into the POTW:

OIL INTERCEPTOR

HAULING USED MECHANICAL FLUIDS

5. **OPERATION AND MAINTENANCE RECORDS:** The IU shall maintain Operation and Maintenance Records for the pretreatment devices named in Permit Condition 4 and for any and all other devices on its premises which serve to pretreat process wastewater. At a minimum, these records shall include a chronological log of any and all installation, maintenance, servicing, repair, and modification of pretreatment devices at the Discharge Location. Should an outside party be hired by the IU to perform services related to any pretreatment devices, the Operation and Maintenance Records are required to include documentation of those services, including the name of the outside party, the address of the outside party, the dates of the service, the nature of the service, and the quantities, nature, and origin of wastes handled or disposed.

In addition, the Operation and Maintenance Records shall be maintained at all times on the Discharge Location premises and shall be available, at any time, for compliance evaluation and copying by City, State, or Federal officials as provided by law.

6. **SELF-MONITORING AND REPORTING:** The IU shall perform periodic industrial wastewater self-monitoring sampling and analysis and report its self-monitoring results to the ENV.

The self-monitoring requirements for this Permit are described below. These self-monitoring requirements are subject to change should the IU fail to maintain continued compliance with any of the Permit Conditions, Discharge Limits, or General Provisions, or should new or revised regulations be established.

- NO SELF MONITORING REQUIRED AT THIS TIME

INDUSTRIAL WASTEWATER DISCHARGE PERMIT**PERMIT CONDITIONS**

Continued

7. **SAMPLING AND ANALYSIS:** The IU shall submit complete and detailed records regarding the procedures used to analyze the samples. All IU sampling and analysis reports must include the following information and records:
- A. The date, exact place, and time of sampling;
 - B. The names of the person or persons taking the samples;
 - C. The dates the analyses were performed;
 - D. The names of the person or persons performing the analyses;
 - E. The analytical techniques and the methods used to perform the analyses;
 - F. The results of the analyses; and
 - G. A completed Chain of Custody Form.
8. **THREE YEAR RECORD-KEEPING:** The IU shall retain for a minimum of three (3) years any and all records pertaining to activities associated with this permit. The IU shall make such records available for compliance evaluation and copying by City, State, or Federal officials as provided by law. This period of retention shall be extended during the course of any unresolved litigation or administrative procedure regarding indirect discharges of pollutants or violations of the Revised Ordinances of Honolulu or any other regulatory requirement by the IU.
9. **CERTIFICATION STATEMENT:** The IU shall include a Certification with each submission of a self-monitoring report or any other report or statement of compliance submitted pursuant to pretreatment regulations. The Certification Statement, indicated below, shall be included in the cover letter transmitting the report and must be signed by an Authorized Representative of the IU.
- 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, I certify that 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.
10. **AUTHORIZED REPRESENTATIVE:** Pursuant to 40 CFR 403.12(1), an Authorized Representative of the IU is defined as and shall be:
- A. A responsible corporate officer if the IU submitting the statement or report is a corporation. For the purpose of this paragraph, a responsible corporate officer means:
 - i. A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation, or

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT CONDITIONS

Continued

- ii. The manager of one or more manufacturing, production, or operation facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million, if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
 - B. A general partner or proprietor if the IU submitting the statement report is a partnership or sole proprietorship respectively.
 - C. A duly authorized representative of the individual designated in paragraph (A)(i) or (A)(ii) of this section if:
 - i. The authorization is made in writing by the individual described in paragraph (A)(i) or (A)(ii); and
 - ii. The authorization specifies either an individual or a position having responsibility for the overall operation of the facility from which the industrial discharge originates, such as the position of plant manager or a position of equivalent responsibility, or having overall responsibility for environmental matters for the company; and
 - iii. The written authorization is submitted to the ENV.
 - D. If an authorization under paragraph (C) of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, or overall responsibility for environmental matters for the company, a new authorization satisfying the requirements of paragraph (C) of this section must be submitted to the ENV prior to or together with any other reports to be signed by an authorized representative.
11. **DEMONSTRATION OF CONTINUED COMPLIANCE:** In the event that IU self-monitoring results indicate a violation of any Discharge Limits, the IU shall notify the ENV, Supervising Waste Water Service Investigator, phone 768-3264, within 24 hours of becoming aware of the violation, and shall submit, within 5 days, a written report detailing the violation occurrence and corrective actions taken by the IU. The IU shall also repeat the sampling and analysis and shall submit the results of the repeat analysis to the ENV within 30 calendar days after becoming aware of the violation.
12. **TRANSFERABILITY:** This Permit is non-transferable without the IU's 20-day prior written notification and request to transfer the Permit and written approval, by the ENV, of the transfer request. The IU shall provide a copy of the Permit, within 20 days of the ENV approval, to the new owner or operator of the Discharge Location.
13. **DURATION:** The effective duration of this Permit begins from the Effective Date and ends on the Expiration Date stated on Permit Page 1. In no event shall this Permit extend beyond five (5) years of the stated Effective Date.

INDUSTRIAL WASTEWATER DISCHARGE PERMIT**PERMIT CONDITIONS**

Continued

14. **PENALTIES FOR VIOLATIONS:** An IU in violation of any Permit Conditions, Discharge Limits, General Provisions, or any other regulatory requirements will be subject to enforcement actions and penalties by the ENV. These enforcement actions and penalties will be of the following forms.

WARNING TELEPHONE CALL

CCH will initiate telephone notification upon identification of an IU violation. Notification will include detailed description of IU violation.

WARNING LETTER

- A. CCH will initiate the warning letter upon identification of a continued IU violation which has already received a warning telephone call.
- B. The warning letter will include at least the following information;
- i. Who and what is in violation;
 - ii. When the violation occurred;
 - iii. The ordinance section, rule or other law which has been violated;
 - iv. Notification of enforcement options upon repeat noncompliance to CCH ordinance.

NOTICE OF VIOLATION

- A. Upon identification of a continued non-compliance, a Notice of Violation will be issued to the IU responsible for the violation.
- B. The Notice of Violation will include at least the following information;
- i. The date of the notice;
 - ii. The name and address of the person served with the notice;
 - iii. The section number of the ordinance, rule or other law which has been violated;
 - iv. The nature of the violation(s);
 - v. The deadline for compliance with the notice.

COMPLIANCE SCHEDULE

An enforceable schedule issued by the ENV to the IU to comply with the applicable regulations, including any interim discharge limits. Failure by the IU to comply with items of the schedule may result in civil fines, sewer bans, injunctive relief, and/or criminal actions against the IU. The specific penalties will be set forth in the Compliance Schedule. In no event may a Compliance Schedule extend beyond applicable federal deadlines.

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT CONDITIONS

Continued

NOTICE TO SHOW CAUSE

The ENV can issue a Notice To Show Cause to the IU requiring the IU to meet and "show cause": prior to taking formal enforcement action. Generally, the IU would be presented with the facts that the ENV believes demonstrate noncompliance and the IU will be asked to "show cause" to the ENV as to why formal enforcement action against the IU should not be initiated. Such a meeting, however, is not a prerequisite to taking formal enforcement action against the IU.

INJUNCTIVE RELIEF

Whenever an IU has violated a pretreatment standard or requirement or continues to violate the provisions of the Sewer Ordinance, wastewater discharge permits or orders, or any other pretreatment requirement, the ENV may petition the Circuit Court of the First Circuit, State of Hawaii, or the United States District Court, State of Hawaii, through the Department of the Corporation Counsel for the issuance of a temporary or permanent injunction, as appropriate, which restrains or compels the specific performance of the wastewater discharge permit, order, or other requirement imposed by the Sewer Ordinance on activities of the industrial user. Such other action as appropriate for legal and/or equitable relief may also be sought by the ENV. A petition for injunctive relief need not be filed as a prerequisite to taking any other action against the IU.

CRIMINAL ENFORCEMENT

Any person violating any provisions of the Sewer Ordinance shall upon conviction, be punished by a fine of \$1,000 or by imprisonment not exceeding ninety days, or both, except that in cases where such offense shall continue after due notice, each day's continuance of the same shall constitute a separate offense.

ADMINISTRATIVE ORDER

- A. In lieu of or in addition to enforcement under Section 14-11.1 of the Revised Ordinances of Honolulu, if the Director determines that any person, firm, or corporation is not complying with a Notice of Violation for a violation of Article 5 of Chapter 14, the Director may have the party responsible for the violation served, by mail or delivery, with an order pursuant to this section.
- B. The order may require the party responsible for the violation to do any or all of the following:
 - i. Correct the violation within the time specified in the order;
 - ii. Pay a civil fine of not less than \$2,500 and not more than \$25,000 in the manner, at the place and before the date specified in the order;
 - iii. Pay a civil fine of not less than \$2,500 per day and not more than \$25,000 per day for each day that the violation persists, in the manner and at the time and place specified in the order.

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

DISCHARGE LIMITS

Continued

- C. The order shall become final thirty days from the date of service unless the party served requests a hearing under Chapter 91, Hawaii Revised Statutes. If a hearing is requested, no fine shall be imposed except upon completion of the hearing. In determining the amount of the fine, the Director shall consider the seriousness of the violation or violations, any history of such violations, any good-faith efforts to comply with applicable requirements, the economic impact of the fine on the violator, and such other considerations that have a bearing on the bearing on the amount of the fine.
- D. The Director may institute a civil action in any court of competent jurisdiction for the enforcement of any Order issued pursuant to this section. Where the civil action has been instituted to enforce the civil fine imposed by said Order, the Director need only show that the Notice of Violation and Order were served, that a civil fine was imposed, the amount of the civil fine imposed and that the fine has not been paid.
15. **MAILING ADDRESS:** The IU shall submit all correspondence, statements, self-monitoring reports, and other submittals to this Permit to:

Department of Environmental Services
City and County of Honolulu
1000 Uluohia Street, #303
Kapolei, Hawaii 96707

Attention: Regulatory Control Branch

DISCHARGE LIMITS

1. **PROHIBITED DISCHARGE STANDARDS:** The IU shall not introduce or cause to be introduced into the POTW any pollutant or wastewater which causes pass through or interference. These prohibitions apply to all IUs of the POTW whether or not they are subject to categorical pretreatment standards or any other Federal, State, or local pretreatment standards or requirements. Furthermore, the IU shall not discharge any of the following substances into the POTW:
- A. Pollutants which create a fire or explosive hazard in the municipal wastewater collection and POTW, including but not limited to, wastestreams with a closed-cup flashpoint of less than 140°F (60°C) using the test methods specified in 40 CFR 261.21.
- B. Any wastewater having a pH less than 5.5 or more than 11.0, or otherwise causing corrosive structural damage to the POTW or equipment, or endangering personnel.
- C. Solid or viscous substances in amounts which will cause obstruction of the flow in the POTW resulting in interference, but in no case solids greater than 0.25 inches in any dimension.
- D. Any wastewater containing pollutants, including oxygen demanding pollutants (BOD, etc.), released in a discharge at a flow rate and/or pollutant concentration which, either singly or by interaction with other pollutants, will cause interference with either the POTW; or any wastewater which causes the temperature at the introduction into the treatment plant to exceed 104°F (40°C).

INDUSTRIAL WASTEWATER DISCHARGE PERMIT**DISCHARGE LIMITS**

Continued

- E. Any wastewater having a temperature greater than 150°F, or which will inhibit biological activity in the treatment plant resulting in interference, but in no case wastewater which causes the temperature at the introduction into the treatment plant to exceed 104°F (40°C).
- F. Petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin, in amounts that will cause interference or pass through.
- G. Any pollutants which result in the presence of toxic gases, vapors or fumes within the POTW in a quantity that may cause acute worker health and safety problems.
- H. Any trucked or hauled pollutants, except at discharge points designated by the POTW.
- I. Any noxious or malodorous liquids, gases, solids or other wastewater which, either singly or by interaction with other wastes, are sufficient to create a public nuisance, a hazard to life, or to prevent entry into the sewers for maintenance and repair.
- J. Any wastewater which impart colors which cannot be removed by the treatment process, such as, but not limited to, dye wastes and vegetable tanning solutions, which consequently imparts color to the treatment plant's effluent thereby violating the City and County of Honolulu's NPDES permit. Color (in combination with turbidity) shall not cause the treatment plant effluent to reduce the depth of the compensation point for photosynthetic activity by more than 10 percent from the seasonably established norm for the aquatic life.
- K. Any wastewater containing any radioactive wastes or isotopes except as specifically approved by POTW in compliance with applicable State or Federal regulations.
- L. Storm water, surface water, ground water, artesian well water, roof runoff, subsurface drainage, swimming pool drainage, condensate, deionized water, non-contact cooling water, and unpolluted industrial wastewater, unless specifically authorized by the POTW.
- M. Any sludges, screenings, or other residues from the pretreatment of industrial wastes.
- N. Any medical wastes, except as specifically authorized by the [the Superintendent] in a wastewater discharge permit.
- O. Any wastewater causing the treatment plant's effluent to fail a toxicity test.
- P. Any wastes containing detergents, surface active agents, or other substances which may cause excessive foaming in the POTW.
- Q. Any discharge of fats, oils, or greases of animal or vegetable origin is limited to 100 mg/L.

Wastes prohibited by this section shall not be processed or stored in such a manner that they could be discharged to the POTW. All floor drains located in process or materials storage area must discharge to the Industrial User's pretreatment facility before connecting with the POTW.

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

DISCHARGE LIMITS

Continued

2. **FEDERAL CATEGORICAL PRETREATMENT STANDARDS:** The National Categorical Pretreatment Standards found in 40 CFR Chapter I, Subchapter N, Parts 405-471 are hereby incorporated.
3. **SPECIFIC POLLUTANT LIMITATIONS:** The IU shall not discharge wastewater containing pollutants in excess of the following instantaneous maximum allowable discharge limits.

Arsenic	0.50 mg/L
Cadmium	0.69 mg/L
Chromium	2.77 mg/L
Copper	3.38 mg/L
Lead	0.60 mg/L
Mercury	0.50 mg/L
Nickel	3.98 mg/L
Selenium	2.00 mg/L
Silver	0.43 mg/L
Zinc	2.61 mg/L
PHENOLS	2.00 mg/L
Cyanide	1.90 mg/L
Oil and Grease	100.00 mg/L
pH	within 5.5 to 11.0
Solids	not exceed 0.25 inches

4. **AMENDMENTS:** This Permit shall by no means restrict or prohibit the ENV from establishing more stringent requirements than set forth herein, if deemed reasonably necessary to comply with pretreatment regulations.
5. **SPECIAL AGREEMENTS:** The ENV reserves the right to enter into special agreements with IUs setting out special terms under which they may discharge to the POTW. In no case shall a special agreement waive compliance with applicable City, State, or Federal pretreatment standards or requirements. However, the IU may request a variance from the categorical pretreatment standards from the EPA. Such a request will be approved only if the IU can prove that factors relating to its discharge are fundamentally different from the factors considered by the EPA when establishing those pretreatment standards. An IU requesting a fundamentally different factor variance must comply with the procedural and substantive provisions in 40 CFR 403.13.

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

DISCHARGE LIMITS

Continued

6. Dilution: The IU shall not increase the use of process water, or in any way attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with a discharge limitation unless expressly authorized by an applicable pretreatment standard or requirement. The ENV may impose mass limitations on IUs which are using dilution to meet applicable pretreatment standards or requirements, or in other cases when the imposition of mass is appropriate.

GENERAL PROVISIONS

1. The IU shall take all reasonable steps to minimize or prevent any discharge in violation of this Permit which has a reasonable likelihood of adversely affecting human health or the environment, including additional monitoring as appropriate to determine the nature and impact of the violation.
2. The provisions in this Permit are severable. If any of the provisions set forth in this Permit are found invalid, the remainder of this Permit shall not be affected and shall be in full force and effect.
3. The requirements set for the herein shall not protect the IU from liabilities under Federal, State, or local law.
4. If Federal or City pretreatment requirements are amended, the ENV may revise and modify this Permit accordingly.
5. The IU shall furnish any information the ENV may request to determine whether cause exists for modifying, revoking, and re-issuing, or terminating this Permit or to determine compliance with this Permit. This information shall be submitted within 20 days of the ENV's request.
6. Should the IU find that it failed to submit relevant facts or submitted incorrect information to the ENV, it shall promptly submit or re-submit the missing or correct information.
7. An IU seeking to establish that it did not violate pretreatment or permit requirements shall have the burden of proof.