

March 2006

*Storm Water Pollution Control Plan – Users Guide  
Wahiawa Baseyard*

*Develop an Environmental Management Program for the State  
of Hawaii, Department of Transportation, Highways Division  
Facilities, Hawaii*

*Prepared For:*

*State of Hawaii  
Department of Transportation  
Highways Division*



*Prepared By:*



U.S. Army Corps of Engineers  
Honolulu Engineer District



Environet, Inc.

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## ***Site Description and Site Drainage***

The Wahiawa Baseyard is located in the central portion of Oahu, along California Avenue in Wahiawa. The southwestern tip of the triangular-shaped property borders Kaukonohua Gulch (Figure 2-1). The Wahiawa Baseyard is paved in the center parking area, but there are no storm drain inlets at the facility. Storm water runoff sheet flows to grassy or landscaped areas, where it infiltrates into the ground. Offices, a vehicle shed, and a small storage shed are located inside the gate at the east end of the site. The only other building is a Quonset hut located near the northwest corner of the baseyard. The central area is paved and is used primarily as a parking and storage area. This baseyard is used primarily to store equipment and supplies closer to areas where work on roadways maintained by HDOT Highways needs to be done. Plans for modifications to the baseyard, including a new vehicle and equipment wash facility, have been prepared, and construction is expected in the near future.

A site plan of the Wahiawa Baseyard is shown on Figure 2-1.

Facility Supervisor: William Simpson  
Facility Address: 155 California Avenue  
Wahiawa, HI 96786  
Telephone Number: (808) 622-6317

No storm drain inlets are located within the facility, and all runoff from the paved areas sheet flows to grassy or landscaped areas. Generally, storm water at the site sheet flows in the southwesterly direction, towards the southwest corner of the facility (Figure 2-1). The nearest water body from the southwest corner of the facility is the South Fork of the Kaukonahua Stream, which is located approximately 500 feet to the south of the facility. The Kaukonahua Stream empties into the Wahiawa Reservoir.

## ***Potential Pollutants***

The predominant activities at the facility include parking, limited maintenance and fueling of HDOT Highways equipment, and storage of limited quantities of chemicals. Limited maintenance of HDOT Highways vehicles are also performed at the facility. Potential pollutants derived from these activities include various petroleum products, pesticides, herbicides, traces of heavy metals (cadmium, chromium and lead), and solid waste debris.

A list of potential pollutant sources has been provided below:

- One (1) 50-gallon capacity diesel fuel truck with dispenser, which is parked under the vehicle shed.
- Small quantities of petroleum products (gasoline, motor oil, hydraulic oil), stored in either the original manufacturer's containers or  $\leq 5$ -gallon containers, and secured within flammable storage lockers in the office structures.

- Small quantities of herbicides (Roundup ®) and pesticides (Diazinon), stored in either the original manufacturer’s containers or ≤5-gallon containers, and secured within flammable storage lockers in the office structures.
- 5-gallon capacity plastic pails of cold asphalt mix (petroleum-based; solid), which is stored in the Quonset hut.

## *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. Best management practices (BMPs) applicable to the Wahiawa Baseyard are attached to this Users Guide as Appendix A1 through A6. The following table summarizes potential sources that may affect runoff and the BMPs to be utilized to minimize affected runoff from the Wahiawa Baseyard:

**Summary of Best Management Practices**

<b>Potential Sources of Affected Runoff</b>	<b>Potential Pollutants</b>	<b>BMP</b>
Facility washing	cold asphalt mix, diesel, gasoline, hydraulic fluid, grease, oil, solvents, lubricants, traces of heavy metals (cadmium, chromium and lead), creosote, PCBs, and debris	<ul style="list-style-type: none"> <li>• A1: Housekeeping Practices</li> <li>• A4: Material Storage</li> </ul>
Rubbish storage containers	debris	<ul style="list-style-type: none"> <li>• A1: Housekeeping Practices</li> </ul>
Equipment washing and maintenance	diesel, gasoline, hydraulic fluid, grease, oil, solvents, lubricants, and traces of heavy metals (cadmium, chromium and lead)	<ul style="list-style-type: none"> <li>• A2: Vehicle and Equipment Washing, Maintenance and Repair</li> <li>• A1: Housekeeping Practices</li> </ul>
Fueling of equipment	diesel, gasoline, hydraulic fluid, grease, oil, and traces of heavy metals (cadmium, chromium and lead)	<ul style="list-style-type: none"> <li>• A3: Vehicle and Equipment Fueling</li> <li>• A1: Housekeeping Practices</li> </ul>
Improper disposal of chemicals	diesel, gasoline, hydraulic fluid, grease, oil, solvents, lubricants, traces of heavy metals (cadmium, chromium and lead), paints, cold asphalt mix, and miscellaneous hazardous materials	<ul style="list-style-type: none"> <li>• A6: Hazardous Waste Management</li> <li>• A1: Housekeeping Practices</li> </ul>
Chemical storage container failure	diesel, gasoline, hydraulic fluid, grease, oil, solvents, lubricants, PCBs, traces of heavy metals (cadmium, chromium and lead), paints, cold asphalt mix, and miscellaneous hazardous materials	<ul style="list-style-type: none"> <li>• A4: Material Storage</li> <li>• A5: Spill Prevention and Response</li> <li>• A1: Housekeeping Practices</li> </ul>
Improper storage of chemicals (i.e. container deterioration, exposure to rain, no secondary containment)	cold asphalt mix, diesel, gasoline, hydraulic fluid, grease, oil, solvents, lubricants, creosote, PCBs, traces of heavy metals (cadmium, chromium and lead), and miscellaneous hazardous materials	<ul style="list-style-type: none"> <li>• A4: Material Storage</li> <li>• A5: Spill Prevention and Response</li> <li>• A1: Housekeeping Practices</li> </ul>

Potential Sources of Affected Runoff	Potential Pollutants	BMP
Application and use of chemicals	grease, oil, solvents, lubricants, and traces of heavy metals (cadmium, chromium and lead)	<ul style="list-style-type: none"> <li>• A1: Housekeeping Practices</li> <li>• A5: Spill Prevention and Response</li> </ul>
Major equipment leaks	diesel, gasoline, hydraulic fluid, oil and traces of heavy metals (cadmium, chromium and lead)	<ul style="list-style-type: none"> <li>• A5: Spill Prevention and Response</li> <li>• A1: Housekeeping Practices</li> </ul>

## *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. 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 Supervisor shall act as the Emergency Coordinator (EC) until relieved by the appropriate HDOT Highways personnel.

In the event of any spill, employees should follow the guidelines listed below and in the Spill Prevention and Response BMP (Appendix A5), where practicable.

### Step 1: STOP WORK

- Shut down pumps and equipment and secure valves and work operations.
- Shut down any nearby propane/fuel/compressed gas tanks.
- Move away from the affected area.

### Step 2: ASSESS THE SITUATION

- Check the scene for safety.
- Determine what happened and the hazards.
- Determine the number of victims and their condition.

### Step 3: CALL THE AUTHORITIES

- Call H3 Tunnel dispatch at 485-6200.
- If H3 Tunnel dispatch is not available, call 911 for emergency situations.
- Notify supervisor and alert others in the baseyard of the incident via:
  - Voice;
  - Hand-held radios; and/or
  - Other effective means.

#### Step 4: CONTROL THE SCENE

- Keep non-essential employees away from the spill area.
- Evaluate the situation and decide whether to implement a "fight or flight" (stay and contain the hazard or evacuate for personal safety) response. This should be done by the EC or other appropriate HDOT Highways personnel by gathering the following information, if it can be done safely:
  - Your name, location, and how you may be reached.
  - Location of the release.
  - Type, quantity, and description of the release.
  - Hazards of the release.
  - Type of media affected (soil, asphalt, concrete, etc.).
  - Rate of the release.
  - Migratory direction of the release.
  - Potential for fire or explosion.
  - Potential for human exposure.
  - Potential for migration to surface water (ocean, storm drains, etc.).
  - Never subject yourself or other personnel to unreasonable risk of illness or injury.
  - Remove all injured persons from the area of danger and render first aid.
- If the decision is to "fight," personnel are to don the appropriate personal protective equipment (PPE).
- Eliminate all possible sources of ignition/detonation such as vehicle engines, welding and grinding operations, and smoking.
- Remove or isolate ignitable and incompatible materials from the area of the release if the spill is of a flammable substance.
- Locate, stop, and contain the source of the release by:
  - a. Closing, checking, repairing, plugging valves.
  - b. Plugging and patching holes.
- Confine the release to prevent further migration by:
  - Diking and berming using sand, soil, or other inert material;
  - Sealing storm drains with plastic and sandbags;
  - Placing granular sorbent or absorbent pads and booms;
  - Diverting the chemicals from entering drains, manholes, streams, etc.; or
  - Implementing retention techniques.
- Call the facility spill response contractor for cleanup and removal of accumulated product resulting from the release. The contractor will remove spilled product and

- properly dispose of the material in accordance with applicable state and federal regulations.
- If the release is not readily and easily controlled, evacuation may be necessary.
  - If the decision is the "flight" option, the EC or other appropriate HDOT Highways personnel is to immediately alert and evacuate all personnel.
  - Evacuate all personnel along the nearest evacuation route to the designated assembly area as shown on Figure 2-1.
  - Implement proper decontamination procedures on vehicles, affected media, PPE, and equipment.
  - Package all used decontamination solution, disposable PPE, and affected media in U.S. Department of Transportation (U.S. DOT) - specified containers.
  - Label, transport, and dispose of hazardous materials/waste in accordance with applicable government regulations.

A Spill Response Documentation Form (Appendix B) that should be completed is discussed in detail below and attached to this Users Guide.

## ***Employee Training***

Training for maintenance personnel shall include the following topics and shall be completed at the following frequency.

**Summary of Employee Training Program**

<b>Training Topic</b>	<b>Trainee</b>	<b>Responsibility</b>	<b>Frequency</b>
Potential Pollutants	Maintenance Staff	Facility Supervisor	Annually
Best Management Practices	Maintenance Staff	Facility Supervisor	Annually
Past Releases and Causes	Maintenance Staff	Facility Supervisor	Annually
Spill Prevention and Response Plan	Maintenance Staff	Facility Supervisor	Annually
Site Inspections	Maintenance Staff	Facility Supervisor	Annually

## ***Documentation Procedures***

When the facility supervisor or other trainer trains maintenance personnel, they are to have all individuals attending the training sign in on a Training Log. At the top of the Training Log is a checklist of possible items to be covered during the training; the trainer is to check off the topics covered and sign the top of the log, as appropriate. The facility supervisor is to keep an annual Training Binder to document all training activities performed each year.

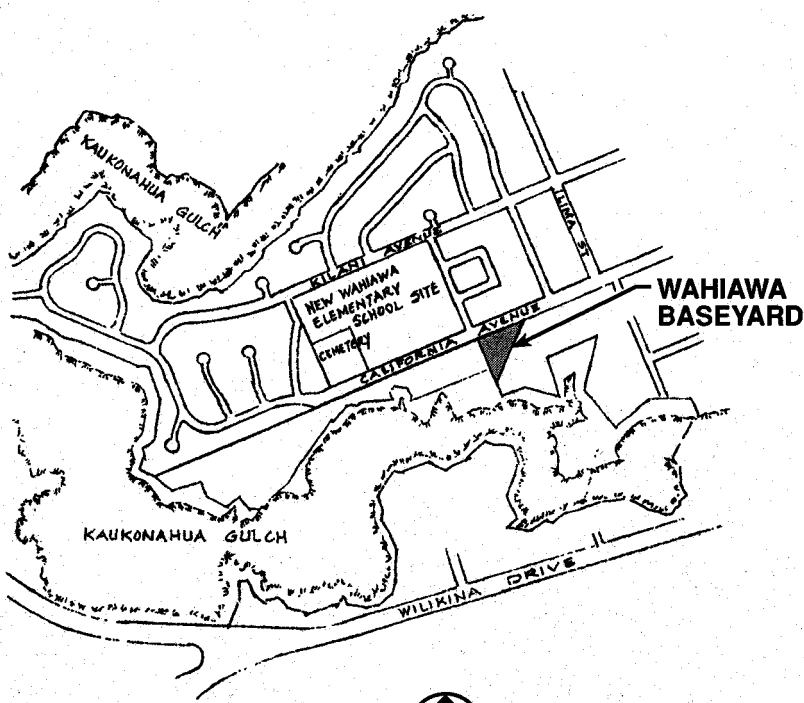
Records shall be kept that document all spills, leaks and other discharges, including hazardous substances in reportable quantities that occur at the facility. A copy of the Spill Response Documentation Form is attached (Appendix B).

The facility will be inspected quarterly by a HDOT Highways third-party inspector (someone not assigned to the facility being inspected). Reports of all inspections performed at the site shall be retained at the facility. The inspector shall use the Third-Party Site-Specific SWPCP Facility Inspection Form (Appendix C) to document all observations, particularly the effectiveness of site BMPs. Inspection records shall be analyzed to determine if BMPs are effective, and if not, what needs to be done to improve the methods used at the site.

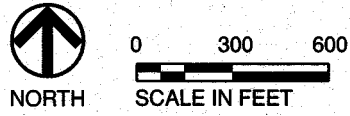
## ***Attachments***

The following items are attached to this SWPCP Users Guide for reference:

- Figure 2-1: Site Plan
- Appendix A1: Housekeeping Practices BMP
- Appendix A2: Vehicle and Equipment Washing, Maintenance and Repair BMP
- Appendix A3: Vehicle and Equipment Fueling BMP
- Appendix A4: Material Storage BMP
- Appendix A5: Spill Prevention and Response BMP
- Appendix A6: Hazardous Waste Management BMP
- Appendix B: Spill Response Documentation Form
- Appendix C: Third-Party Site-Specific SWPCP Facility Inspection Form



**LOCATION PLAN**



Small quantities of herbicides, pesticides, and petroleum products (gasoline, motor oil, hydraulic oil), stored in either the original manufacturer's containers or <5-gallon fuel containers are secured within flammable storage lockers in the office structures.

EVACUATION ASSEMBLY SITE



The Wahiawa Baseyard is paved in the center parking area.



There are no storm drain inlets at the Wahiawa Baseyard.



The Quonset hut is used to store equipment, asphalt mix, and spill response materials.

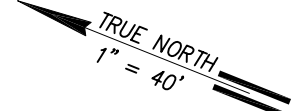
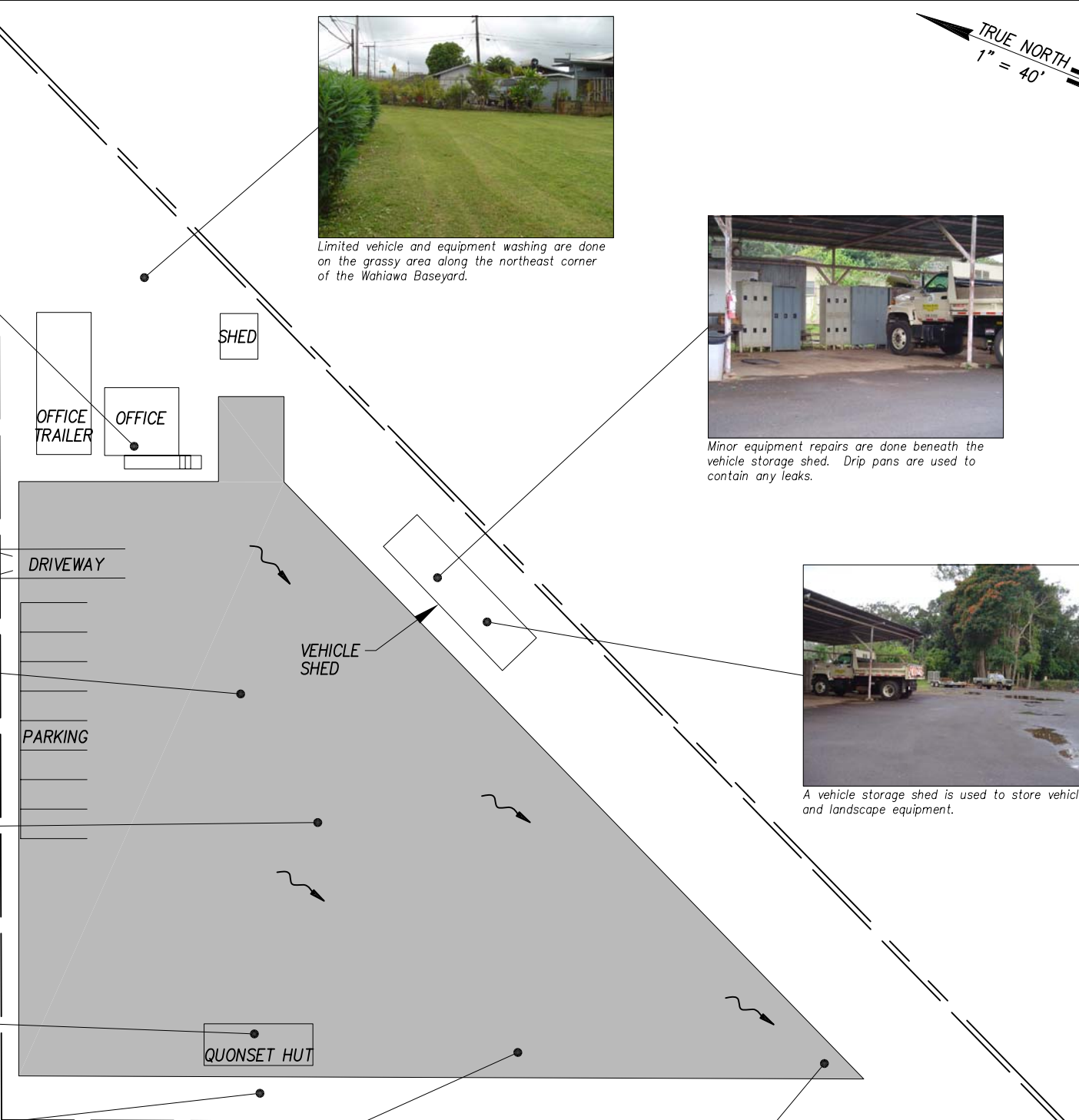


Vegetation borders the perimeter of the Wahiawa Baseyard.



The Wahiawa Baseyard is used to store landscape maintenance equipment.

CALIFORNIA AVENUE



Limited vehicle and equipment washing are done on the grassy area along the northeast corner of the Wahiawa Baseyard.



Minor equipment repairs are done beneath the vehicle storage shed. Drip pans are used to contain any leaks.



A vehicle storage shed is used to store vehicles and landscape equipment.



Drainage from the paved areas sheet flows to grassy or landscaped areas. Generally, storm water at the site sheet flows in the southwesterly direction, towards the southwest corner of the facility.

- LEGEND:**
- APPROXIMATE EXTENT OF PAVED AREA
  - DIRECTION OF RUNOFF FLOW
  - EVACUATION ASSEMBLY AREA



REFERENCES: STATE DOT, HIGHWAYS DIVISION

STORM WATER POLLUTION CONTROL PLAN – WAHIAWA BASEYARD



SITE PLAN

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## APPENDIX A1

### HOUSEKEEPING PRACTICES BEST MANAGEMENT PRACTICE

#### Description

Daily activities performed by HDOT require the use of materials and products that are potential contaminants in storm water. Good housekeeping practices at the facilities where these materials are used and/or stored are intended 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.

#### Limitations

There are no major limitations to the implementation of this BMP. This BMP of good housekeeping practices is to be followed by all HDOT personnel performing activities at the HDOT baseyards.

#	Approach	Check
A1-1	Train HDOT employees in good housekeeping practices on an annual basis.	<input type="checkbox"/>
A1-2	Minimize water use in washing activities.	<input type="checkbox"/>
A1-3	Sweep or vacuum maintenance facility floors regularly to prevent tracking materials.	<input type="checkbox"/>
A1-4	Do not overfill trash receptacles or leave trash outside of containers.	<input type="checkbox"/>
A1-5	Keep trash receptacles of all sizes covered.	<input type="checkbox"/>
A1-6	Pickup and properly dispose of litter and debris on a regular basis.	<input type="checkbox"/>
A1-7	Use absorbent materials in work areas rather than hosing them down whenever possible.	<input type="checkbox"/>
A1-8	Maintain an ample supply of spill cleanup materials that are in good condition.	<input type="checkbox"/>
A1-9	Promptly clean spills with rags or absorbent material, and properly dispose of cleaning materials.	<input type="checkbox"/>
A1-10	Inspect facility storm drain inlets regularly for clogging and debris. Clean as necessary.	<input type="checkbox"/>
A1-11	Clean storm drain inlets by either shoveling or using of a vacuum truck.	<input type="checkbox"/>
A1-12	Material in storm drain inlets is not to be flushed downstream.	<input type="checkbox"/>
A1-13	Maintain accurate inventory of stored products and materials.	<input type="checkbox"/>
A1-14	Label products and material properly.	<input type="checkbox"/>
A1-15	Use up existing products and materials before purchasing or using additional ones of the same kind.	<input type="checkbox"/>
A1-16	Avoid excessive watering of landscaped areas to minimize runoff.	<input type="checkbox"/>
A1-17	Store materials removed from HDOT's rights-of-way in covered areas to the extent practicable. Do not store in areas where storm water runoff flows to drain inlets.	<input type="checkbox"/>
A1-18	Dispose of materials removed from HDOT's rights-of-way in a timely manner.	<input type="checkbox"/>
A1-19	Identify all chemical substances present in the workplace, compile Material Safety Data Sheets (MSDS), and store MSDS in an area where all employees have access.	<input type="checkbox"/>
A1-20	Perform facility inspections on a regular basis to ensure good housekeeping practices are being followed by facility personnel.	<input type="checkbox"/>

## APPENDIX A2

### VEHICLE AND EQUIPMENT WASHING, MAINTENANCE AND REPAIR BEST MANAGEMENT PRACTICE

#### Description

Routine maintenance of vehicles and equipment must be done to maintain their proper operation. In addition to washing, maintenance may include vehicle and equipment fluids removal, engine and parts cleaning, or tire repair and replacement. This BMP is intended to reduce the impact of these activities on storm water runoff.

#### Limitations

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

#	Approach	Check
A2-1	Wash vehicles and equipment in designated areas away from storm drain inlets.	<input type="checkbox"/>
A2-2	Use vehicle wash racks whenever practical. Ensure that rinse water from wash racks and sinks does not drain to the storm drainage system. Connect all sinks to the sanitary sewer system.	<input type="checkbox"/>
A2-3	Prohibit washing and repair of personal vehicles at HDOT facilities.	<input type="checkbox"/>
A2-4	Maintain HDOT vehicles in good operating condition.	<input type="checkbox"/>
A2-5	Inspect damaged vehicles for fluid leaks as soon as possible. Use drip pans as necessary.	<input type="checkbox"/>
A2-6	Transfer removed vehicle fluids to designated storage container(s) as soon as possible.	<input type="checkbox"/>
A2-7	Use drip pans whenever changing vehicle fluids.	<input type="checkbox"/>
A2-8	Store exposed drums/containers of liquid material or wastes on secondary containment pallets when in use.	<input type="checkbox"/>
A2-9	Remove drip pan promptly after vehicle plugs have been tightened and checked to assure no leakage.	<input type="checkbox"/>
A2-10	Check degreasing solvent tank for leaks regularly. Repair as necessary.	<input type="checkbox"/>
A2-11	Allow parts to drain over solvent tank or drip pan. Do not allow solvent to drip or spill onto the floor.	<input type="checkbox"/>
A2-12	Designate areas in service bays for parts cleaning. Do not wash or rinse parts outdoors.	<input type="checkbox"/>
A2-13	Use a vacuum to cleanup dust from sanding.	<input type="checkbox"/>
A2-14	Use damp cloths, brooms, and absorbent material for cleaning. Do not hose or blow the area to remove dust.	<input type="checkbox"/>
A2-15	Maintain an ample supply of absorbent material near maintenance areas.	<input type="checkbox"/>
A2-16	Store materials for constructing temporary berms to protect storm drain inlets in the event of a spill.	<input type="checkbox"/>
A2-17	Install "No Dumping" placards on all storm drains at HDOT facilities to educate personnel that non-storm water is not to be discharged to the storm drainage system.	<input type="checkbox"/>

## APPENDIX A3

### VEHICLE AND EQUIPMENT FUELING BEST MANAGEMENT PRACTICE

#### 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.

#	Approach	Check
A3-1	Perform fueling of vehicles and equipment in designated areas, away from drain inlets, drainage channels, or receiving waters.	<input type="checkbox"/>
A3-2	Maintain an ample supply of spill cleanup materials and spill control equipment near fueling areas.	<input type="checkbox"/>
A3-3	Equip fuel trucks and mobile tanks with spill cleanup materials.	<input type="checkbox"/>
A3-4	Discourage topping off and unattended fueling.	<input type="checkbox"/>
A3-5	Post proper fueling and cleanup instructions in fueling areas.	<input type="checkbox"/>
A3-6	Avoid hosing off fueling area.	<input type="checkbox"/>
A3-7	Inspect portable fueling tanks along with hoses and dispensing nozzles regularly for cracks and leaks. Repair as needed.	<input type="checkbox"/>
A3-8	Check for proper operation of automatic shut off controls on fuel dispensing nozzles. Repair as needed.	<input type="checkbox"/>

## APPENDIX A4

### MATERIALS STORAGE BEST MANAGEMENT PRACTICE

#### Description

A variety of products and materials that may adversely affect water quality are stored at HDOT baseyards. 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.

#	Approach	Check
A4-1	Store materials in appropriate containers as recommended by the manufacturer.	<input type="checkbox"/>
A4-2	Ensure that all containers are closed, securely fastened, stored neatly, and properly labeled.	<input type="checkbox"/>
A4-3	Maintain accurate inventory of stored supplies. Periodically review inventory and storage areas to evaluate the need to keep stored materials. Supplies that are past their expiration date should be evaluated to see if they are still suitable for use. Supplies that are deteriorating or in bad condition should be discarded regardless of their expiration date. Properly dispose of materials that do not need to be kept.	<input type="checkbox"/>
A4-4	Store materials and containers indoors or in covered areas whenever practical.	<input type="checkbox"/>
A4-5	Place containers atop pallets when storing containers outdoors, to minimize contact with run off/run-on.	<input type="checkbox"/>
A4-6	Cover containers and materials with a tarp when storing them outdoors, wherever practical.	<input type="checkbox"/>
A4-7	Store materials that must be stored in the open away from drain inlets and natural waterways to minimize their contact with storm water. Berm uncovered areas where stockpile erosion or contaminated runoff can occur. Direct collected runoff from within the berms to a sump or low area for removal by pumping or vacuuming. Dispose of collected water in the sanitary sewer.	<input type="checkbox"/>
A4-8	Maintain an ample supply of spill clean-up materials near storage areas.	<input type="checkbox"/>
A4-9	Clean small spills with rags or absorbent material. For larger spills, contact spill response personnel immediately.	<input type="checkbox"/>
A4-10	Sweep or vacuum up spilled materials that can be conveyed in storm water flows.	<input type="checkbox"/>
A4-11	Inspect storage areas regularly. 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"/>

## APPENDIX A5

### SPILL PREVENTION AND RESPONSE BEST MANAGEMENT PRACTICE

#### Description

Spills of materials used and stored at HDOT baseyards can contaminate storm water runoff. The guidelines 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 do not threaten ground or surface waters will be cleaned up using absorbent materials or other acceptable practices, without disrupting facility operations. 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 Supervisor shall act as the Emergency Coordinator (EC) until relieved by the appropriate HDOT personnel. Employees should follow the guidelines listed below where practicable.

#### Limitations

HDOT does not have legal responsibility for cleanup outside of the right-of-way in cases where a third party generates the spill. The Honolulu Fire Department (HFD) is typically the lead agency for emergency response to hazardous spills on all non-military lands of Oahu. Highways Division assists the HFD with spill response for spills within Highways Division's rights-of-way. Once the emergency is stabilized, the release response may be turned over to DOH. In certain situations, DOH may be the lead agency. The Military Fire Department is the lead agency for emergency response to hazardous spills on military lands.

#	Approach	Check
A5-1	Stop work.	<input type="checkbox"/>
A5-2	Shut down pumps and equipment and secure valves and work operations.	<input type="checkbox"/>
A5-3	Shut down any nearby propane tanks.	<input type="checkbox"/>
A5-4	Move away from the affected area.	<input type="checkbox"/>
A5-5	Notify and alert others of the incident via: (1) Voice; (2) Hand-held radios; and/or (3) Other effective means.	<input type="checkbox"/>
A5-6	Keep non-essential employees away from the spill area.	<input type="checkbox"/>
A5-7	Notify the EC.	<input type="checkbox"/>
A5-8	<p>The EC shall evaluate the situation and decide whether to implement a "fight or flight" (stay and contain the hazard or evacuate for personal safety) response by gathering the following information, if it can be done safely:</p> <ol style="list-style-type: none"> <li>1. Your name, location, and how you may be reached.</li> <li>2. Location of the release.</li> <li>3. Type, quantity, and description of the release.</li> <li>4. Hazards of the release.</li> <li>5. Type of media affected (soil, asphalt, concrete, etc.).</li> <li>6. Rate of the release.</li> <li>7. Migratory direction of the release.</li> <li>8. Potential for fire or explosion.</li> <li>9. Potential for human exposure.</li> <li>10. Potential for migration to surface water (ocean, storm drains, etc.).</li> </ol>	<input type="checkbox"/>

**APPENDIX A5****SPILL PREVENTION AND RESPONSE BEST MANAGEMENT PRACTICE  
(Continued)**

#	Approach	Check
A5-9	Never subject yourself or other personnel to unreasonable risk of illness or injury.	<input type="checkbox"/>
A5-10	Remove all injured persons from the immediate area of danger and render first aid. If injuries are severe, call 911 for emergency medical assistance.	<input type="checkbox"/>
A5-11	If the decision is to "fight," personnel are to don the appropriate personal protective equipment (PPE).	<input type="checkbox"/>
A5-12	Eliminate all possible sources of ignition/detonation such as vehicle engines, welding and grinding operations, and smoking.	<input type="checkbox"/>
A5-13	If the spill is of a flammable substance, remove or isolate ignitable and incompatible materials from the area of the release.	<input type="checkbox"/>
A5-14	Locate, stop, and contain the source of the release by: 1. Closing, checking, repairing, plugging valves; and/or 2. Plugging and patching holes.	<input type="checkbox"/>
A5-15	Confine the release to prevent further migration by: 1. Diking and berming using sand, soil, or other inert material; 2. Sealing storm drains with plastic and sandbags; 3. Placing granular sorbent or absorbent pads and booms; 4. Diverting the chemicals from entering drains, manholes, streams, etc.; or 5. Implementing retention techniques.	<input type="checkbox"/>
A5-16	Call the facility spill response contractor for cleanup and removal of accumulated product resulting from the release. The contractor will remove spilled product and properly dispose of the material in accordance with applicable state and federal regulations.	<input type="checkbox"/>
A5-17	If the release is not readily and easily controlled, evacuation may be necessary.	<input type="checkbox"/>
A5-18	If the EC decides on the "flight" option, the EC is to immediately alert and evacuate all personnel.	<input type="checkbox"/>
A5-19	Call H3 tunnel dispatch at 485-6200 and notify them of the spill. If H3 Tunnel dispatch is not available, call 911 for emergency situations (Refer to SWPCP Table 4-2)	<input type="checkbox"/>
A5-20	Personnel are to proceed along the nearest evacuation route to the designated assembly area as shown on Figure 2-1.	<input type="checkbox"/>
A5-21	Implement proper decontamination procedures on vehicles, affected media, PPE, and equipment.	<input type="checkbox"/>
A5-22	All used decontamination solution, disposable PPE and affected media must be properly packaged in U.S. Department of Transportation (U.S. DOT) - specified containers.	<input type="checkbox"/>
A5-23	Labeling, transportation and subsequent disposal of hazardous materials/waste must be in accordance with applicable government regulations.	<input type="checkbox"/>
A5-24	Complete the Spill Response Documentation form provided in Appendix B.	<input type="checkbox"/>

## APPENDIX A6

### HAZARDOUS WASTE MANAGEMENT BEST MANAGEMENT PRACTICE

#### Description

Many of the chemicals used on-site are hazardous materials, which become hazardous waste upon disposal. These wastes may include:

- Paints and solvents;
- Petroleum products such as oils, fuels, and grease;
- Herbicides and pesticides;
- Acids from lead/acid batteries; and
- Other compounds.

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

#### Limitations

Hazardous waste that cannot be reused or recycled must be disposed of by a licensed hazardous waste transporter.

#	Approach	Check
A6-1	Use the entire product before disposing of the container.	<input type="checkbox"/>
A6-2	Do not remove the original product label; it contains important safety and disposal information.	<input type="checkbox"/>
A6-3	Do not over-apply herbicides and pesticides. Prepare only the amount needed. Follow the recommended usage instructions. Over-application is expensive and environmentally harmful. 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. Follow HDOT's Chemical Application Plan.	<input type="checkbox"/>
A6-4	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. Rinse water-based paints to the sanitary sewer. Filter and re-use thinners and solvents. Dispose of excess oil based paints and sludge as hazardous waste.	<input type="checkbox"/>
A6-5	Only purchase and store reasonable quantities of hazardous materials.	<input type="checkbox"/>
A6-6	Select designated hazardous waste collection areas on-site.	<input type="checkbox"/>
A6-7	Hazardous materials and wastes should be stored in covered containers and protected from vandalism.	<input type="checkbox"/>
A6-8	Place hazardous waste containers in secondary containment.	<input type="checkbox"/>
A6-9	Do not mix wastes, this can cause chemical reactions, make recycling impossible, and complicates disposal.	<input type="checkbox"/>
A6-10	Recycle any useful material such as used oil or water-based paint.	<input type="checkbox"/>

**APPENDIX A6****HAZARDOUS WASTE MANAGEMENT BEST MANAGEMENT PRACTICE  
(Continued)**

#	Approach	Check
A6-11	Make sure that toxic liquid wastes (used oils, solvents, and paints) and chemicals (acids, pesticides, additives, curing compounds) are not disposed of in dumpsters designated for construction debris.	<input type="checkbox"/>
A6-12	Arrange for regular waste collection before containers overflow.	<input type="checkbox"/>
A6-13	Make sure that hazardous waste (e.g. excess oil-based paints and sludges) is collected, removed, and disposed of only at authorized disposal areas by a licensed hazardous waste transporter.	<input type="checkbox"/>
A6-14	Place a stockpile of spill cleanup materials where it will be readily accessible.	<input type="checkbox"/>
A6-15	If a container does spill, clean up immediately.	<input type="checkbox"/>

**APPENDIX B**  
**SPILL RESPONSE DOCUMENTATION FORM**

Date:	Completed By:
Date of Spill:	
Material Spilled:	Quantity of Material Spilled:
Describe Location of Spill:	
Ground surface on which material was spilled:	
Describe how the spill occurred:	
Duration before spill response action was implemented:	Duration before spill response action was completed:
Describe how the source of the release was stopped or contained:	
Describe measures taken to prevent further migration of spilled material:	
Describe the material used to remediate the spill:	
Describe how the material used to remediate the spill was stored and disposed:	
Describe measures taken to prevent this type of spill in the future:	
Provide other relevant information:	

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## APPENDIX C

### THIRD-PARTY SITE-SPECIFIC SWPCP FACILITY INSPECTION FORM

Facility Name:	
Inspector's Name & Title:	
Date & Time of Inspection:	
Weather:	<input type="checkbox"/> Raining <input type="checkbox"/> Sunny <input type="checkbox"/> Cloudy <input type="checkbox"/> High Wind <input type="checkbox"/> Moderate Wind <input type="checkbox"/> Calm Precipitation in last 24 hours? <input type="checkbox"/> Yes <input type="checkbox"/> No

#### SITE OBSERVATIONS / MANAGEMENT CONTROLS / BMPs

Issue Being Evaluated	Yes	No	N/A	Comments and Corrective Actions
<b>Are preventive maintenance and housekeeping activities being implemented and documented?</b>				
Are all work areas and storage areas neat and clean?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are the loading and unloading areas clean?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the drainage area clean of debris (paper, leaves)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Catch basins cleaned	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Regular removal/disposal of trash and waste products	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are dumpsters and recycle bins kept closed when not in use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are potential pollutants stored under covered areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are drums stored within secondary structures / containment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**APPENDIX C****THIRD-PARTY SITE-SPECIFIC SWPCP FACILITY INSPECTION FORM  
(Continued)**

<b>Issue Being Evaluated</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Comments and Corrective Actions</b>
Are any material storage containers, equipment, etc. leaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are oily parts and/or chemical containers exposed to storm water contact?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are materials properly labeled?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Identification of all chemicals (MSDSs)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Prevention of chemical accumulation on ground in building	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Vehicles are serviced in covered areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is any equipment maintenance being performed outdoors?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is equipment or vehicles being washed in designated areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are drip pans placed under equipment and vehicles?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are drip pans clean and in good condition (not leaking)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Petroleum products recycled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there dirt and grease buildup in the parking lot?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**APPENDIX C****THIRD-PARTY SITE-SPECIFIC SWPCP FACILITY INSPECTION FORM  
(Continued)**

<b>Issue Being Evaluated</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Comments and Corrective Actions</b>
Are there stains on the paved areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Any water flowing into outfall/off-site? (if yes, identify source)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Visual inspection of facility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Maintenance of inspection log (documented and current)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Proper training of employees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Restrict access to area and equipment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Have spill prevention and response procedures been implemented and is spill prevention equipment operational and ready?</b>				
Visual inspection of paved areas for spills and leaks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Prompt removal of any spills or leaks using spill kits	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Spill response equipment stocked and inspected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**APPENDIX C****THIRD-PARTY SITE-SPECIFIC SWPCP FACILITY INSPECTION FORM  
(Continued)****REVIEW OF STROM WATER POLLUTION CONTROL PLAN (SWPCP)**

<b>Issue Being Evaluated</b>	<b>Yes</b>	<b>No</b>	<b>Comments</b>
Are there changes to the site description?	<input type="checkbox"/>	<input type="checkbox"/>	
Are there changes to storm water control features?	<input type="checkbox"/>	<input type="checkbox"/>	
Are there changes to potential pollutant sources or activities?	<input type="checkbox"/>	<input type="checkbox"/>	
Are there changes to storm water program personnel?	<input type="checkbox"/>	<input type="checkbox"/>	
Have there been any spills or releases?	<input type="checkbox"/>	<input type="checkbox"/>	
Are corrective actions necessary?	<input type="checkbox"/>	<input type="checkbox"/>	
Are there changes in employee responsibilities regarding storm water protection?	<input type="checkbox"/>	<input type="checkbox"/>	

<b>Question</b>	<b>Yes</b>	<b>No</b>
If yes to any of the above, have revisions to the SWPCP Plan been made?	<input type="checkbox"/>	<input type="checkbox"/>
Are additional revisions recommended?	<input type="checkbox"/>	<input type="checkbox"/>
If revisions have not been made or are not recommended, indicate reason:		
Do the existing management controls/best management practices appear to be effective in reducing the potential for storm water pollution? If no, indicate reason:	<input type="checkbox"/>	<input type="checkbox"/>
Are there any additional management controls/best management practices recommended as a result of the site inspection? If yes, describe new storm water management/best management control needed to address sources of pollutants and a time schedule for implementation:	<input type="checkbox"/>	<input type="checkbox"/>

**APPENDIX C**

**THIRD-PARTY SITE-SPECIFIC SWPCP FACILITY INSPECTION FORM  
(Continued)**

**REVIEW OF TRAINING**

Issue Being Evaluated	Yes	No	Comments
Have employees been informed and trained of revisions?	<input type="checkbox"/>	<input type="checkbox"/>	
Is annual employee training current?	<input type="checkbox"/>	<input type="checkbox"/>	
Are employee training records documented?	<input type="checkbox"/>	<input type="checkbox"/>	
If no to any of the above, indicate reason for discrepancy and what corrective actions will be taken:			

**REVISIONS OF STORM WATER POLLUTION CONTROL PLAN**

Question	Yes	No
Have all revisions been made to the SWPCP, re-signed, and submitted to the Hawaii State Department of Health within 30 days of the revision (if applicable)?	<input type="checkbox"/>	<input type="checkbox"/>
If no, indicate reason:		

**STORM WATER POLLUTION CONTROL PLAN COMPLIANCE**

Based on site observations and review of facility records conducted as part of this inspection report, this facility is determined to be in compliance with the facility's SWPCP.

Facility: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

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