

## “PREFERRED” PERMANENT BMPS

September 6, 2013

The Department of Transportation, Airports Division (DOTA) has compiled a list of “preferred” BMPs that designers should consider first when selecting permanent best management practices (BMPs). In accordance with the Storm Water Management Program Plan (SWMPP), post-construction (permanent) BMPs must be included for construction sites over 1 acre.

The applicable sections of the SWMPP are available online:

<http://hidot.hawaii.gov/airports/doing-business/environmental/construction-site-runoff-control-program/>.

For BMPs not listed in the SWMPP, refer to the Environmental Protection Agency (EPA) National Menu of BMPs available online:

[http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=min\\_measure&min\\_measure\\_id=5](http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=min_measure&min_measure_id=5).

The goal for storm water treatment at the Honolulu International Airport is retain as much runoff on-site as is feasible, keeping in consideration the mission of the airport and applicable Federal Aviation Administration rules. The secondary goal is to ensure that runoff that must be conveyed off-site is provided with treatment prior to entering the receiving water. The following is a list of BMPs that are “preferred” by the DOTA to meet the aforementioned goals.

Goal #1 - Retain storm water on-site\*:

**1. Bioswales.**

- a. Refer to SWMPP Section D, Appendix B, PC13 or the EPA BMP list for “grassed swales.”
- b. Ensure that soils allow for rapid infiltration.
- c. Recent projects: DH Commuter Terminal, HNL Consolidated Car Rental Facility, and Elliott Street Parking Lot.

**2. Underground Detention Basin.**

- a. Refer to the EPA’s September 2001 Storm Water Technology Fact Sheet on “On-Site Underground Retention/Detention” (832-F-01-005).
- b. Recent projects: Mauka Concourse and HNL Consolidated Car Rental Facility.

**3. Pervious Pavement.**

- a. Refer to SWMPP Section D, Appendix B, PC17 or the EPA BMP list for “porous asphalt pavement.”
- b. Recent project: Elliott Street Parking Lot.

\*Note: design may include directing water to one of HNL’s current evaporation ponds.

Goal #2 – Treat storm water runoff:

**1. Hydrodynamic Separators.**

- a. Refer to SWMPP Section D, Appendix B, PC23 or EPA BMP list for “manufactured products for stormwater inlets.”
- b. Ensure that maintenance may be performed from accessible manholes with standard equipment (i.e. vacuum trucks, etc.).
- c. Recent projects: HNL Ewa Hardstands, HNL Consolidated Car Rental Facility, and DH Commuter Terminal.

**2. Oil Water Separators.**

- a. Refer to SWMPP Section D, Appendix B, PC22.
- b. Ensure that maintenance may be performed from accessible manholes with standard equipment (i.e. vacuum trucks, etc.).
- c. Recent project: T-Hangar Washrack.

**3. Storm Drain Inserts.**

- a. Refer to EPA BMP list for “catch basin inserts.”
- b. Ensure that maintenance may be performed from accessible manholes with standard equipment (i.e. vacuum trucks, etc.)
- c. Recent projects: Catch basin 7572.