

SOIL MANAGEMENT, REUSE, AND DISPOSAL FACT SHEET



This Fact Sheet has been prepared to guide DOT Airports (DOTA) Tenants and Contractors in the proper procedures for the management of known and/or unknown contaminated soil. This includes off-site disposal or on-site reuse of contaminated or uncontaminated soil that is disturbed or generated during excavation or demolition activities.

- All soil shall be treated as potentially contaminated until it is determined otherwise.
- When contaminated soil is known or suspected to be encountered, projects are expected to coordinate with the Hawaii Department of Health (DOH) [Hazard Evaluation and Emergency Response \(HEER\) Office](#) and proceed in accordance with the DOH [Technical Guidance Manual](#).
- Tenants should employ a Qualified Environmental Professional (QEP) to review site conditions and historical documentation, and to oversee the management of contaminated material. **Tenants must utilize a QEP when disturbed soil is intended for reuse off airport property.**
- Contractors working on DOTA projects are to follow Specification Section 01562.

SOIL DISPOSAL AND REUSE

- No soil from airport property may be reused off site except with prior DOTA Environmental Section (AIR-EE) approval and when soil has been fully tested and meets DOH Unrestricted Use Tier I Environmental Action Levels (EALs).
- Soil will not be allowed for reuse at residential or sensitive properties (i.e., schools and recreational areas) under any circumstances.
- Projects must test all soils designated for on-site reuse. Soil that does not exceed applicable DOH Tier 1 EALs may be reused on site (within construction site boundaries) with AIR-EE approval.
- Soil with contaminants that exceed DOH Tier 1 EALs may be approved for on-site reuse with written approval from AIR-EE and when contaminated soil is placed in a location that does not present an unacceptable risk to future workers, to stormwater or groundwater quality, or to ecological receptors. Consult with AIR-EE for the specific requirements that must be met for on-site reuse.



Plan for Soil Reuse or Disposal	Below DOH Tier 1 EALs ¹	Above DOH Tier 1 EALs & Below C/I EALs ²	Above DOH C/I EALs ² or contains Free Product
Residential, School or Recreational Area	Not Allowed		
Onsite Reuse	Allowed (with AIR-EE approval)	Possibly Allowed (with AIR-EE written approval)	Not Allowed
Offsite Commercial/Industrial Area	Allowed under special circumstances (with AIR-EE approval)	Not Allowed	
Landfill Disposal	Allowed (pending landfill acceptance)		

1. *Unrestricted Use Tier 1 EALs*
 2. *Commercial/Industrial EALs*

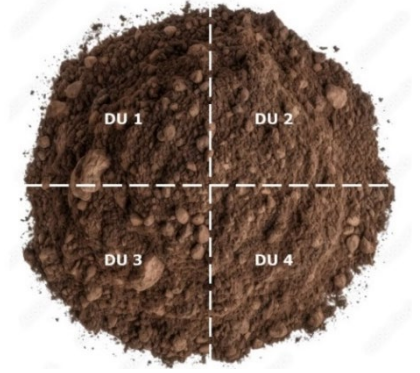
SOIL STOCKPILE TESTING GUIDANCE

All soil generated during excavation, demolition, or other construction activities shall be sampled and tested in accordance with the latest edition of the DOH [Guidance for Soil Stockpile Characterization and Evaluation of Imported and Exported Fill Material](#) (*DOH Soil Stockpile Guidance*). Alternative sampling approaches may be utilized on a case-by-case basis when reviewed with AIR-EE and approved by the HEER Office.

Soil stockpile Decision Unit (DU) volumes should follow the *DOH Soil Stockpile Guidance* summarized in the table below, unless an approved alternate approach is established.

Summary of Default Stockpile DU Volumes Based on Targeted Contaminants of Concern and Land Use

Targeted Contaminants of Concern	Receiving Site Land Use Category	Default Stockpile DU Volume
Volatile Compounds (e.g., light fuels, solvents, mercury)	Any	20 yd ³
Highly Leachable, Non-Volatile Contaminants (e.g., chlorinated herbicides, some metals)	Any	20 yd ³
Low Mobility Contaminants (e.g., some metals, PCBs, PAHs, some pesticides)	Unrestricted Use	100 yd ³
	Landfill Disposal	400 yd ³
	Commercial or Industrial use only	400 yd ³ or 18 DUs



Soil stockpiles and containers shall be located at least 50 feet from drainage features/inlets and surface water, contained to prevent erosion and migration, and maintained under cover to prevent contact with precipitation.

To the extent feasible, liquid-phase oil or free product associated with contaminated soil shall be drained prior to stockpiling, and properly stored, profiled, and disposed at an approved facility.

DOTA has established a [Programmatic EHE-EHMP](#) that provides guidance for the handling of small volumes of contaminated soil (<15 cubic yards) and describes when a site-specific C-EHMP or C-EHMP addendum is needed, such as when working in known contaminated areas that will displace greater than 15 cy.



Properly Managed Soil Stockpiles are Constructed on a Liner with Berm and a Cover

Contact [AIR-EE](mailto:dot.air.environmental@hawaii.gov) (dot.air.environmental@hawaii.gov) well before ground disturbing activities are planned to occur to determine project requirements.