

# Sampling and Analytical Guide

MADEP Class A Recycling Permit X258844

Table 1



Test Required	Test Frequency	*Gas Contaminated Soil	*Oil Contaminated Soil	*Gas & Oil Mix Contaminated Soil	Table 1 Permit Acceptance Limits
<b>TPH</b> (TPH /ETPH methods)	<i>*See soil type</i>	N/A (not required)	<b>1 Sample per 100 cu.yds</b>	<b>1 Sample per 100 cu.yds</b>	<b>≤ 60,000 mg/kg Total</b>
<b>VOLATIVE ORGANICS **</b> (Full 8260-methanol preserved)	<i>*See soil type</i>	<b>1 Sample per 100 cu.yds</b>	<b>1 Sample per 500 cu.yds</b>	<b>1 Sample per 100 cu.yds</b>	<b>≤ 500 mg/kg Total</b>
<b>Chlorinated Solvents **</b> (HVOC's)	<i>Included in full VOC 8260</i>	<b>1 Sample per 100 cu.yds</b>	<b>1 Sample per 500 cu.yds</b>	<b>1 Sample per 100 cu.yds</b>	<b>≤ 5 mg/kg Total</b>
<b>FLASHPOINT</b> (With Degree F)	<b>500 cu.yds</b>	Required for Oil Impacted / Gas Impacted / Oil & Gas Mixed Impacted Soil			<b>&gt; 140F</b>
<b>pH</b>	<b>500 cu.yds</b>	Required for Oil Impacted / Gas Impacted / Oil & Gas Mixed Impacted Soil			<b>Between 2-12.5</b>
<b>REACTIVITY</b> (Sulfide & Cyanide)	<b>500 cu.yds</b>	Required for Oil Impacted / Gas Impacted / Oil & Gas Mixed Impacted Soil			<b>Non-reactive</b>
<b>PCB'S</b> (8082)	<b>500 cu.yds</b>	Required for Oil Impacted / Gas Impacted / Oil & Gas Mixed Impacted Soil			<b>&lt; 2 mg/kg Total</b>
<b>Total Metals (5) **</b> <b>Every 500 cu.yds</b>	<b>ARSENIC (As)</b>	Required for Oil Impacted / Gas Impacted / Oil & Gas Mixed Impacted Soil			<b>≤ 30 mg/kg Total (TCLP N/A)</b>
	<b>CADMIUM (Cd)</b>	Required for Oil Impacted / Gas Impacted / Oil & Gas Mixed Impacted Soil			<b>≤ 30 mg/kg Total (**TCLP &lt;1.0 mg/L)</b>
	<b>CHROMIUM (Cr)</b>	Required for Oil Impacted / Gas Impacted / Oil & Gas Mixed Impacted Soil			<b>≤ 500 mg/kg Total (**TCLP &lt; 5.0 mg/L)</b>
	<b>MERCURY (Hg)</b>	Required for Oil Impacted / Gas Impacted / Oil & Gas Mixed Impacted Soil			<b>≤ 10 mg/kg Total (**TCLP &lt;0.2mg/L)</b>
	<b>LEAD (Pb)</b>	Required for Oil Impacted / Gas Impacted / Oil & Gas Mixed Impacted Soil			<b>≤ 1000 mg/kg Total (**TCLP &lt;5.0 mg/L)</b>
<ul style="list-style-type: none"> <li>• A Total organic carbon (TOC) test is required if there is reason to believe TOC are greater than 10% (100,000 ppm)</li> <li>• **TCLP results are required if the total level for any contaminant exceeds RCRA 40 CFR Part 261 (20 times rule)</li> <li>• **Soils soil may not be either a characteristic or listed hazardous waste pursuant to 310 CMR 30.120 Characteristic of Hazardous Waste or 30.130 Lists of Hazardous Waste (other than MA01). The presence of any chlorinated solvent(s) (HVOCs) as a hazardous constituent(s) in the petroleum contaminated soil does not cause the soil to be either a characteristic or listed hazardous waste pursuant to 310 CMR.30.0000</li> <li>• No free liquids, asbestos, trash, metal pipe, slag, tires, hay, wood or nuisance odors are present in the soil.</li> <li>• Soil generated from a virgin Release require TPH analysis only pending confirmation there are no other constituents of concern by an LSP Licensed Site Professional and or QEP Qualified Environmental Professional. Facility can limit on a case by case basis</li> </ul>					