

# UNDERGROUND STORAGE TANK SYSTEM CLOSURE SAMPLING AND LABORATORY ANALYSES REQUIREMENTS

*For Use By All Jurisdictions, Cities and County, Within the Limits of Santa Clara County*

This document describes required analyses for closure of underground storage tank (UST) systems and associated remediation (soil excavation) activities occurring anywhere within Santa Clara County. This table incorporates known contaminants associated with the specific SUBSTANCE (minimally referenced to the State Water Resources Control Board's [LUFT Guidance Manual](#)). It is subject to change at any time and can be modified by the regulator for any specific SUBSTANCE based on site specific circumstances. Soil samples shall be collected in brass sleeves and sealed with Teflon® sheets and plastic end caps. The use of En Core® samplers or glass jars for soil sampling is not acceptable.

If you have any questions regarding these requirements, please contact the Santa Clara County Department of Environmental Health's Local Oversight Program (LOP) at (408) 918-3400.

SUBSTANCE STORED	COMPONENT	ANALYTICAL METHOD
<b>Gasoline</b>	TPH as Gasoline	EPA 8260B/C
	BTEX, Fuel Oxygenates, <sup>1</sup> Naphthalene, EDB and EDC, <sup>2</sup> and Ethanol	EPA 8260B/C
	Organic Lead <sup>3</sup>	DHS LUFT
<b>Diesel, Jet Fuel, Kerosene, and Fuel/Heating Oil (Excluding Bunker Fuel)</b>	TPH as specific to known fuel (e.g., TPH as Diesel) <sup>4</sup>	EPA 8015
	BTEX, Fuel Oxygenates, <sup>1</sup> Naphthalene, EDB and EDC, <sup>2</sup> and Ethanol	EPA 8260B/C <sup>1</sup>
<b>Unknown Fuel</b>	Total Petroleum Hydrocarbons (TPH) TPH as Gasoline TPH as Diesel <sup>4</sup>	EPA 8015 Fuel Screen
	Volatile Organic Compounds (full scan) <sup>2,5</sup>	EPA 8260B (full scan) <sup>2,5</sup>
<b>Waste Oil, Used Oil, Unknown Oil, or Bunker Fuel</b>	TPH as Gasoline TPH as Diesel <sup>4</sup>	EPA 8015 Fuel Screen
	Volatile Organic Compounds, including chlorinated hydrocarbons (full scan) <sup>2,5</sup>	EPA 8260B (full scan) <sup>2,5</sup>
	Metals: Cd, Cr, Pb, Ni, and Zn	EPA 6010B
	PCBs	EPA 8082A
	Semi Volatile Organic Compounds (SVOCS), including Polycyclic Aromatic Hydrocarbons (PAH) <sup>6</sup>	EPA 8270C

<sup>1</sup> Fuel Oxygenates includes: Methyl Tertiary Butyl Ether (MTBE), Tert Butyl Alcohol (TBA), Tert Amyl Ether (TAME), Di-Isopropyl Ether (DIPE), and Ethyl T-Butyl Ether (ETBE).

<sup>2</sup> Analyze for Lead Scavengers 1,2-Dibromoethane [Ethylene Dibromide (EDB)] and 1,2-Dichloroethane [Ethylene Dichloride (EDC)] only if release is pre-1992. If age of release is unknown, analyze for both Fuel Oxygenates and Lead Scavengers.

<sup>3</sup> Organic Lead shall be analyzed at all sites storing gasoline prior to 1992.

<sup>4</sup> Silica gel cleanup is allowed for diesel analysis when a companion run is made without silica gel cleanup.

<sup>5</sup> Analyze all soil and groundwater samples for all constituents of the 8260B (full scan) plus all oxygenates and alcohols.

<sup>6</sup> The analysis for polycyclic aromatic hydrocarbons (PAH) must include Naphthalene, Acenaphthene, Acenaphthylene, Anthracene, Chrysene, Fluorine, Fluoranthene, Phenanthrene, Pyrene, Benzo(b)fluoranthene, Benzo(a)pyrene, Benzo(k)fluoranthene, Benzo(a)anthracene, Indeno(1,2,3-c,d)pyrene, Dibenz(a,h)anthracene, and Benzo(g,h,i)perylene.