



**County of Riverside**  
**DEPARTMENT OF ENVIRONMENTAL HEALTH**

**Environmental Cleanup Programs**

## Laboratory Analyses for Samples Collected at UST Sites

CURRENT & HISTORIC UST CONTENTS	LABORATORY ANALYSES		DETECTION LIMITS	
	Contaminant	Soil / Groundwater	Soil	Groundwater
GASOLINE	TPH( $C_5-C_{12}$ ) or TPPH	8015 <sub>(GRO)</sub> or 8260B	5.0 ppm	50 ppb
	VOCs <sup>1</sup>	8260B (full scan) + oxygenates	5 ppb BTXE,MTBE 10 ppb ETBE,DIPE,TAME 50 ppb TBA 1 ppm Ethanol All other VOCs - Lowest detections possible	0.5 ppb BTXE 1 ppb MTBE 5 ppb ETBE,DIPE,TAME 10 ppb TBA 1 ppm Ethanol All other VOCs - Lowest detections possible
DIESEL	TPH( $C_{10}-C_{24}$ )	8015 <sub>(DRO)</sub>	10.0 ppm	0.5 ppm
	VOCs <sup>1</sup>	8260B (full scan) + MTBE	5 ppb BTXE & MTBE All other VOCs - Lowest detections possible	0.5 ppb BTXE 1 ppb MTBE All other VOCs - Lowest detections possible
Mixed or Unknown Fuels	TPH( $C_5-C_{40}$ )	8015(carbon chain)	5.0 ppm	50 ppb
	VOCs <sup>1</sup>	8260B (full scan) + oxygenates	5 ppb BTXE,MTBE 10 ppb ETBE,DIPE,TAME 50 ppb TBA 1 ppm Ethanol All other VOCs - Lowest detections possible	0.5 ppb BTXE 1 ppb MTBE 5 ppb ETBE,DIPE,TAME 10 ppb TBA 1 ppm Ethanol All other VOCs - Lowest detections possible
Waste Oil	Total Lead <sup>2</sup>	SW-846 Methods	5 ppm	5.0 ppb
	TPH( $C_{24}-C_{40}$ )	8015 <sub>(ORO)</sub>	10.0 ppm	0.5 ppm
	VOCs <sup>1</sup>	8260B (full scan)	Lowest detections possible	Lowest detections possible
	PAHs <sup>3</sup>	8270	Lowest detections possible	Lowest detections possible
Title 22 Metals: Cd, Cr, Pb, Zn, Ni <sup>3</sup>	SW-846 Methods	Specific to Analysis - Lowest detections possible	Specific to Analysis - Lowest detections possible	

<sup>1</sup>Analyze sample for all 8260B compounds (full scan) - approximately 45 compounds. Report & identify all peaks on chromatographs.

<sup>2</sup>Lead shall be analyzed at all UST sites dispensing fuel prior to 1992 and at non-fuel UST sites. Analyze all samples with TPH detections for lead. If no TPH detections, analyze a minimum of one sample per tank for lead.

<sup>3</sup>Analyze all TPH detections for these compounds.

TPPH = Total Purgeable Petroleum Hydrocarbons

GRO = Gasoline range organics ( $C_5-C_{12}$ )

DRO = Diesel range organics ( $C_{10}-C_{24}$ )

ORO = Oil range organics ( $C_{24}-C_{40}$ )

VOCs = Volatile organic compounds

PAHs = Polynuclear aromatic hydrocarbons

Riverside County does not require field sample preparation/preservation using EPA method 5035 (Encore).

Rev. 3-2015