INFORMATIONAL BULLETIN NO. III-16-EPO

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	$8015_{(GRO)}$ or 8260B	5.0 ppm	50 ppb
	VOCs[1]	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
	Total Lead[2]	SW-846 Methods	5 ppm	5.0 ppb
DIESEL	TPH(C_{10}-C_{24})	$8015_{(DRO)}$	10.0 ppm	0.5 ppm
	VOCs[1]	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[1]	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
	Total Lead[2]	SW-846 Methods	5 ppm	5.0 ppb
Waste Oil	TPH(C_{24}-C_{40})	$8015_{(ORO)}$	10.0 ppm	0.5 ppm
	VOCs[1]	8260B (full scan)	Lowest detections possible	Lowest detections possible
	PAHs[3]	8270	Lowest detections possible	Lowest detections possible
	Title 22 Metals: Cd, Cr, Pb, Zn, Ni[3]	SW-846 Methods	Specific to Analysis - Lowest detections possible	Specific to Analysis - Lowest detections possible

[1]Analyze for all 8260B compounds (full scan) - approximately 45 compounds. Report & identify all peaks on chromatographs.
[2]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.
[3]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).

*Document available in an alternate format upon request