



# VAPOR INTRUSION/SOIL GAS TEST METHODS

VAPOR INTRUSION/SOIL GAS ANALYSIS METHODS	DESCRIPTION	INSTRUMENTATION
ASTM D1945	Fixed Gasses (D1945) CO, CO2, CH4, N2, O2	Gas Chromatography
ASTM D1946	Fixed Gasses (D1946) CO, CO2, CH4, O2, He	Gas Chromatography
EPA CFR Promulgated Test Method 18	BTEX, MTBE, TPH (Method 18M)	Gas Chromatography
EPA Test Method 3C	Fixed Gasses CO, CO2, CH4, O2, N2, He	Gas Chromatography
EPA Test Method 8015M	Methane, Ethane, Ethene, Propane, Butane, Acetylene, Isobutane	Gas Chromatography with Flame Ionization detection
EPA Test Method TO-3	Volatile Organics in Ambient Air	Gas Chromatography with Flame Ionization detection and electron capture detection
EPA Test Method TO-4A	Determination of Pesticides and Polychlorinated Biphenyls in Ambient Air	High Volume Polyurethane Foam (PUF) Sampling Followed by Gas Chromatographic/Multi-Detector Detection (GC/MD)
EPA Test Method TO-10A	Determination of Pesticides and Polychlorinated Biphenyls In Ambient Air	Low Volume Polyurethane Foam (PUF) Sampling Followed By Gas Chromatographic/Multi-Detector Detection (GC/MD)
EPA Test Method TO-13A	Determination of Polycyclic Aromatic Hydrocarbons (PAHs) in Ambient Air (TO-13A) Low volume and High volume	Gas Chromatography/Mass Spectrometry (GC/MS)
EPA Method TO-14	Determination Of Volatile Organic Compounds (VOCs) In Ambient Air in Specially Prepared Canisters	Gas Chromatography (GC)
EPA Method TO-15	Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters	Gas Chromatography/Mass Spectrometry (GC/MS)
EPA Method TO-15 SIM	Low Level VOC Compounds	Gas Chromatography/Mass Spectrometry (GC/MS)
EPA Method TO-15 SIM/SCAN	Low Level VOC Compounds	Gas Chromatography/Mass Spectrometry (GC/MS)
MA APH	Determination of Air-phase Petroleum Hydrocarbons	Gas Chromatography/Mass Spectrometry (GC/MS)
RAD-130	Radiello	Gas Chromatography/Mass Spectrometry (GC/MS)