

# siteLAB Petroleum Hydrocarbons Analysis Report

Petroleum Hydrocarbon Solutions



An environmental consultant shipped samples to Sitelab's laboratory for fast and accurate analysis in order to define the extent of contamination and monitor progress of their treatment efforts. This residential site is located in New Jersey and was contaminated by a leaky underground storage tank (UST) containing home heating oil. They use a direct-push drill rig to inject solutions of nano peroxide deep into the ground to accelerate the remediation process. 16 samples were tested from two borings and results were reported within 1 day after receiving the samples. Total price was \$800.



Sample ID No.  Results in ppm (mg/Kg in soil)	<b>Test 1:</b> <b>GRO C6-C10 Gasoline Range Hydrocarbons</b> Cal Kit #025 Slot B Optics	<b>Test 2:</b> <b>EDRO C10-C36 Diesel Range Hydrocarbons</b> Cal Kit #042 Slot A Optics	<b>Test 3:</b> <b>Total PAHs EPH C11-C22 Aromatics</b> Cal Kit #060 Slot A Optics	<b>Test 4:</b> <b>Target PAHs (EPA 8270 PAHs)</b>  Cal Kit #060 Slot D Optics	<b>Test 5:</b> <b>TD-500 Analyzer Heavy PAHs</b>  Using same PAH Cal Kit as UVF-3100
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<u>Boring Location P1</u>					
PI-1 9'	ND <10	ND <2	ND <1	ND <1	ND <1
PI-1 11'	ND <10	ND <0.2	ND <0.1	ND <0.1	ND <0.1
PI-1 13'	1.4	0.5	0.1	ND <0.1	ND <0.1
PI-1 15'	ND <10	ND <0.2	ND <0.1	ND <0.1	ND <0.1
PI-1 17'	1,100	2,915	737	26	4.0
PI-1 19'	1,100	3,313	863	23	3.0
PI-1 21'	1.2	2.0	0.6	ND <0.1	0.1
PI-1 23'	1.0	1.4	0.4	ND <0.1	0.1
PI-1 24'	ND <2	2.2	0.6	ND <0.1	0.1
<u>Boring Location P2</u>					
PI-1 21'	1.2	2.0	0.6	ND <0.1	0.1
PI-1 23'	1.0	1.4	0.4	ND <0.1	0.1
PI-2 19'	1,050	2,780	665	21	2.8
PI-2 20'	1,040	3,025	709	21	2.7
PI-2 21'	2,700	10,735	2,575	60	8.8
PI-2 23'	1,200	3,337	820	40	5.0
PI-2 24'	1,080	3,036	708	35	2.8

This test correlates to EPA Method 8015-GRO	This test correlates to EPA Method 8015-DRO or NJ-DEP OQA-QAM-025	This test is used for TPH Fingerprinting	This test correlates to EPA Method 8270 as sum of PAH compounds	This test is used for TPH Fingerprinting
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**TPH Fingerprinting:** Contaminated samples have GRO, EPH and PAH ratios - or signatures - similar to fresh heating oil.