

## ➔ 1: Sample Collection

Try and collect your samples in clean glass containers with a tight fitting screwed on lid to avoid potential volatilization or leaks during transit. For soils, if small jars are not available, use plastic zip lock sandwich bags. Soils should be well homogenized and free of sticks, large pebbles and water, if possible. For water, oil or other liquid samples, use 40 mL VOA vials or small glass jars, wrapped in bubble wrap for protection. Be sure to label your samples with a permanent marker for identification.

## ➔ 2: Shipping Samples

Samples should be kept cold after collection and during shipment, as recommended by federal and state regulatory agencies to avoid potential volatilization. If possible, ship your samples in a cooler with ice packs or dry ice. Otherwise, ship your samples in a box using next day delivery services provided by Federal Express, DHL, UPS or the US Postal Service.

## ➔ 3: Sitelab's Ship-To Address

Sitelab Corporation  
86 Coffin Street  
West Newbury, MA 01985  
Attn: Steve Greason, Laboratory Manager

## ➔ 4: Payment & Turnaround Time

- Turnaround time for test results is about 1 to 2 days after receipt.
- Payment by check must be included with this form or payment can be made by Credit Card. We accept VISA, MasterCard or American Express. Please call in your credit card to (978) 363-2299.

## ➔ 5: Background Information Needed

Your Name & Company: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

State & Zip Code: \_\_\_\_\_

Phone & Email (to send results): \_\_\_\_\_

If known, what type of petroleum contamination do the samples contain? \_\_\_\_\_

Please use the back of this sheet to describe your application or if you have questions you would like answered when your test results are completed.



### Common Types of Petroleum Contamination

- Gasoline Range Organics (GRO, VPH or BTEX) found in gasoline, jet fuels, diesel and heating oils and other light petroleum products.
- Diesel & Oil Range Organics (DRO, EDRO, EPH, TPH) abundant in diesel fuels, heating oils, waste oils, lub oils and crude oils.
- Polyaromatic Hydrocarbons (PAHs) abundant in weathered fuel oils, waste oils, creosote, coal tars, coal ash and most crude oils.



### Hydrocarbon Fingerprinting Available...

Samples are tested 4 times using Sitelab's UVF-3100 and TD-500 analyzers. The ratios or proportions of GRO, EPH and PAHs is compared to the signatures of other known contaminants to identify the type or age of contamination:



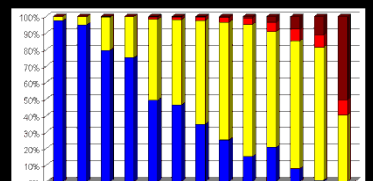
Heavy PAHs

Target PAHs



Total PAHs (EPH)

GRO



Examples Tested at 2000 ppm concentration	GRO	Total PAH	Target PAHs	TD-500 PAHs
1 Fresh Gasoline	600	15	0.4	0.04
2 Weathered Gasoline	1,500	90	0.6	0.20
3 Weathered Gas + Diesel	950	240	5.0	1.0
4 Weathered Jet Fuel	300	100	0.02	0.012
5 Fresh Diesel Fuel (heating oil)	400	400	10	2.0
6 25% Weathered Diesel	350	390	12	3
7 50% Weathered Diesel	300	540	18	3.5
8 75% Weathered Diesel	250	700	28	7
9 Waste Motor Oil	160	850	42	10
10 NSP Coal Tar	65	220	18	11
11 No. 6 Fuel Oil	100	1000	90	100
12 Humic Acid (brown coal lignite)	10	1300	120	180