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Sunset Well Service, Inc. is an environmental contractor located in the Midland/Odessa area of Texas. They use their UVF-3100D analyzer to help excavate and remediate soils contaminated by produced water and crude oil. Laboratories in Texas test TPH using the TX 1005 GC-FID Method. This method is similar to U.S. EPA Method 8015M, but reports the GRO, DRO and ORO fractions separately.

Soils from two spill sites were split and sent to a certified laboratory for confirmation analysis and the field results correlated well. For quality control, sample extracts were also sent to Sitelab's laboratory for EDRO analysis. Results were the same, ensuring the customer's results were valid. Soils are extracted in methanol; extracts have a 90 day shelf life.



UVF equipment is set up in a field trailer. Customer tests soils using Sitelab's EDRO calibration kit (product no. CAL-042) to measure hydrocarbons in the C10 to C36 range.

		UVF-3100 EDRO Results		Lab GC TPH TX 1005 Results	
Tank Battery Storage Site		22 ppm 1,891 ppm 2,452 ppm 3,706 ppm		ND <33 ppm 1,860 ppm 2,180 ppm 2,350 ppm	
Pipeline S Site	pill	2,782 ppn 5,190 ppn	า	1,900 4,590	opm opm
Texas 1005 Reports TPH in GRO, DRO and ORO Ranges:C6-C12 Gasoline Range Hydrocarbons356 ppmC12-C28 Diesel Range Hydrocarbons3,920 ppmC28-C35 Oil Range Hydrocarbons+314 ppm					
Total Petro 90000 80000 70000	oleum	iydrocarbons (chro	= 4,590 omatogram H fractions.	ppm shows The
Response/Volta	C5		used		control
-10000	GRO 2.00 3	Betention Ti	me [®] in Min	ORO a.bo a.bo utes	89 10.00

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