

OIL IN WATER ANALYSIS FOR FLOWBACK OR PRODUCED WATER



OVER 2,200 INFRACAL TOG/TPH ANALYZERS IN WORLD-WIDE USE TODAY

The amount of water used in and produced by hydraulic fracturing of shale gas wells is in the millions of gallons per well. Whether the water is going to be taken off site for disposal or reused for re-injection, the flowback or produced water needs pretreatment to remove any residual oil from the water. Waiting for remote laboratory results can take several days to a week. The InfraCal TOG/TPH Analyzers allow for oil in water testing at the well site in less than 10 minutes. The sampling requires a few simple steps that can be performed by non-technical personnel. The water is mixed with the extraction solvent, shaken, and then presented to the InfraCal Analyzer for measurement. The same InfraCal TOG/TPH Analyzer can be used for TPH in soil if a spill or pond leak occurs to determine the contaminated area.

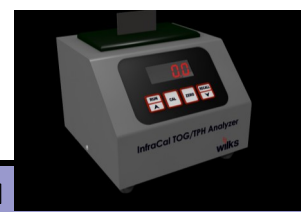
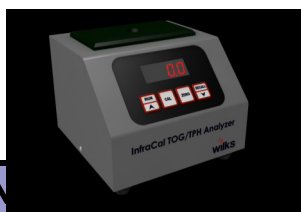
- ◆ Results in under 15 minutes, including extraction
- ◆ Detect levels as low as 10 ppm
- ◆ Portable, rugged, lightweight, easy-to-use
- ◆ Battery operable
- ◆ Ideal for field or laboratory applications

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THREE INFRACAL TOG/TPH ANALYZERS MODELS

for easy on-site infrared measurement of total petroleum hydrocarbon (TPH) are available depending on the minimum oil level required and the desired extracting solvent.



MODEL	CV	HAT	CH
MINIMUM DETECTION FOR SOIL	10 ppm	40 ppm	200 ppm
SOLVENT	Perchloroethylene, Freon, S-316	hexane, pentane, Vertrel MCA	hexane, pentane, Vertrel MCA
COMPONENT MEASURED	Measures all hydrocarbons	Measures hydrocarbons with a boiling point higher than the solvent—volatile hydrocarbons will be evaporated along with the solvent.	Measures hydrocarbons with a boiling point higher than the solvent—volatile hydrocarbons will be evaporated along with the solvent.
INSTRUMENT REPEATABILITY	+/- 1 ppm	+/- 2 ppm	+/- 4 ppm
OTHER	Solvents are heavier than water and require a separatory funnel or inverted vial with a septa cap to collect a solvent sample.	Solvents are lighter than water and solvent sample can be collected from the top of the container.	Solvents are lighter than water and solvent sample can be collected from the top of the container.
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