

NEW! *Optical Imaging Profiler (OIP)*

The Latest Addition to the High Resolution Site Characterization Tool Box.

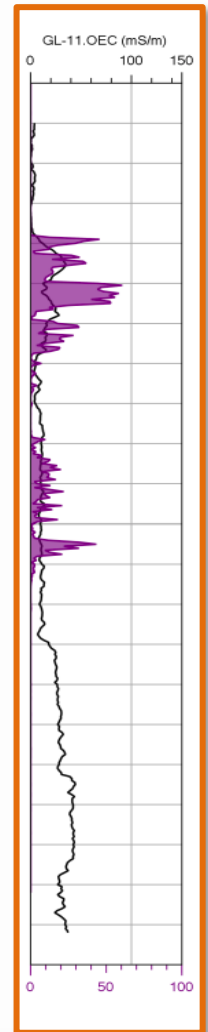


OIP probe with sapphire window on side of probe.

This OIP tool is new and was just released in 2016. Previous to its development, the only other tools for measuring petroleum NAPL was the laser induced fluorescence (LIF) system. This tool provides very similar data and response characteristics to the LIF/UVOST system. Instead of a laser source, this tool uses a LED light source, both ultraviolet and visible.

The OIP was developed for the detection of NAPL level fuels which will fluoresce when exposed to a UV light source. During the advancement of the probe images of the soil are taken through a sapphire window in the probe using an onboard camera. The image color is then analyzed by the software for presence of fluorescing light consistent with that of known fuels. The fluorescence is then measured as an amount of fluorescence within the area of the image.

At selected depths, the operator can stop the probe and capture still images using visible light and UV light. The rate of advancement of the probe is targeted at no more than 4ft (1.22m) per minute. Therefore, an average daily production of 200'-300' per day can be expected.



%Fluorescence and EC log.



Captured image of soil fluorescence (left) and soil under visible light (right) at the same depth.