



Application Case Reference



Seramur & Associates, PC

Client: NC DOT

Date: December 14, 2015

Location: Asheville, NC

Site History: Convenience store that formerly sold gasoline and fuel

Environmental Conditions: The site was located on a corner between two major roadways, featuring a concrete pad covering a 20,000 gallon UST. The soil material found at the site was silty sand and sandy silt. No groundwater was encountered.

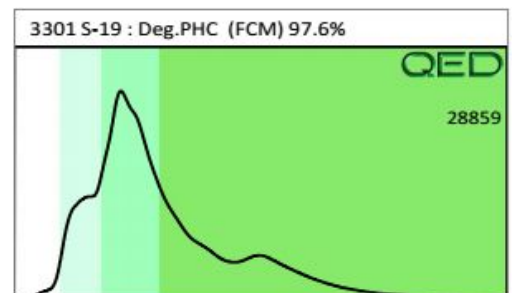
Project Objectives: The objective of this project was to conduct soil sampling and analysis to assess soil quality and estimate the volume of potentially contaminated soil at the site.

Project Description:

The site of this project was an auto repair shop turned convenience store that formerly sold gasoline and fuel from 1999-2010 but was being closed as the store was no longer functioning. There were several tanks on the property that had either been removed or closed and the contaminated soil had to be excavated. Soil samples were taken at depths ranging from 1.5-10 feet.

How was the QED incorporated into the scope of work?

The QED was incorporated into the scope of the work by providing an onsite analysis of the potentially contaminated soil, testing for petroleum hydrocarbons. Sampling was conducted at various depths to see if they exceeded the action limit of 10ppm.



How did using this method increase efficiency on your project?

Because the work was conducted onsite, there was no need to remobilize to the site. Without having to remobilize to the site with geoprobe and collecting additional samples over a couple of days, this method saved us an estimated \$5,800.

Time was also saved because site assessments were completed in one day while drilling, sampling, and analysis of six sites were completed in six days. The onsite technology allowed for a much more thorough coverage of the areas of concern, as opposed to taking samples and having to wait two to three days for the lab to send results back. It was an easy procedure where all that was required was handing a bag of soil to the technician and they would report back any petroleum constituents found in the sample along with a chromatograph of the results.