

  
**Application Case Reference**

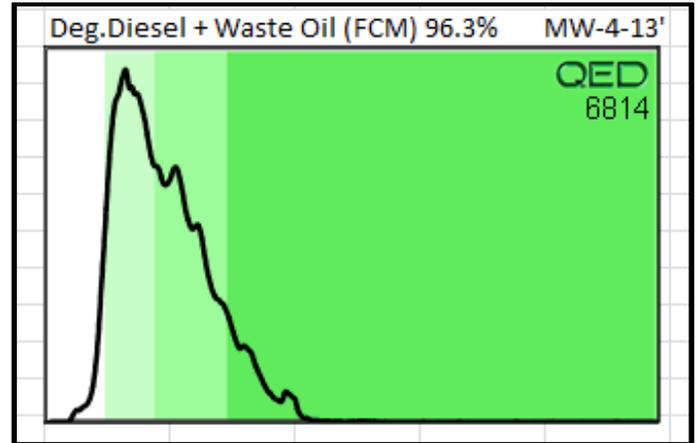
**GRI**

Client: Sampson Bladen Oil Company/HanDee Hugo

Date: May 15, 2014

Location: Elizabethtown, North Carolina

Site History: Former Gas Station



Environmental Condition: The soil conditions were typical of that in the piedmont region.

Project Objective: The contaminated soil was due to that of a leaking petroleum UST system. We needed to segregate and remove contaminated soil during excavation.

**Project Description:**

This was a weeklong project that used the QED/UVF method onsite for analyzing samples and to do two onsite training certifications. The QROS representative brought the equipment out for a previously trained GRI representative to use in the field onsite. The QROS representative stayed onsite to make sure that everything ran smoothly with the new updates. After the first day on this project we decided to do onsite training with two more GRI employees.

The site was a former gas station that had been there for many decades. Tanks needed to be removed; delineation of contamination and excavation of the contaminated soil took place on this site.

**How was the QED incorporated into the scope of work?**

The QED was used to identify contaminated soil in the field, which allowed for the segregation of the contaminated soil from non-contaminated soil during excavation. We were able to save time and money by quickly identifying contaminated soil for segregation purposes during excavation. Also, time and money was saved by not over excavating and removing the need for remobilization. The QED provided the ability to sample in the field rather than in the lab. The ability to have the real-time data was beneficial. The QED/UVF method was very user friendly and easy to understand. It worked very well in locating concentrations of contaminants associated with petroleum release. The estimated cost savings on this site in using the QED/UVF method total equal \$16,600.

*Previously used QED technology, and wanted field data to reduce the amount of soil excavated.*