

CASE HISTORY

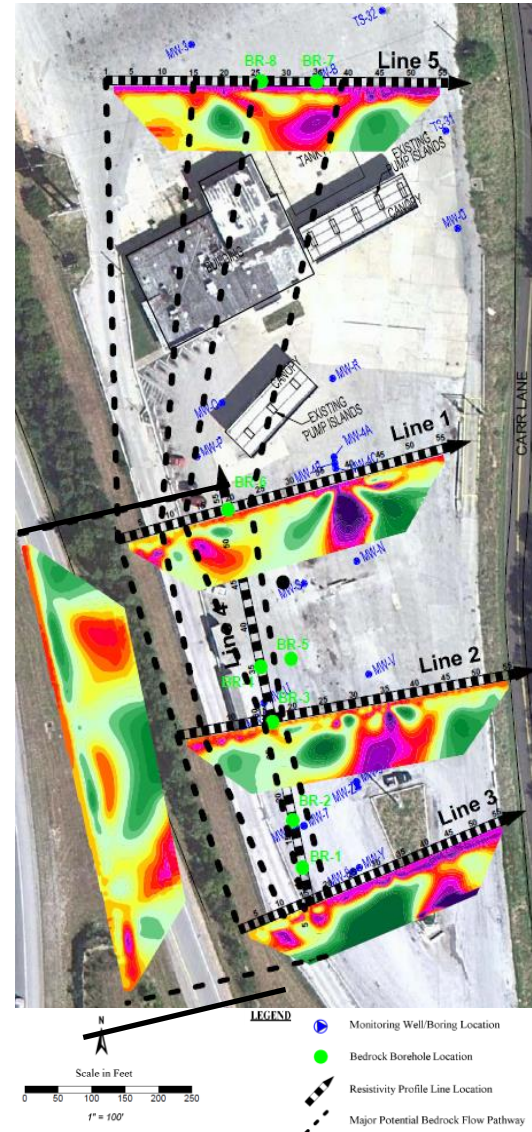
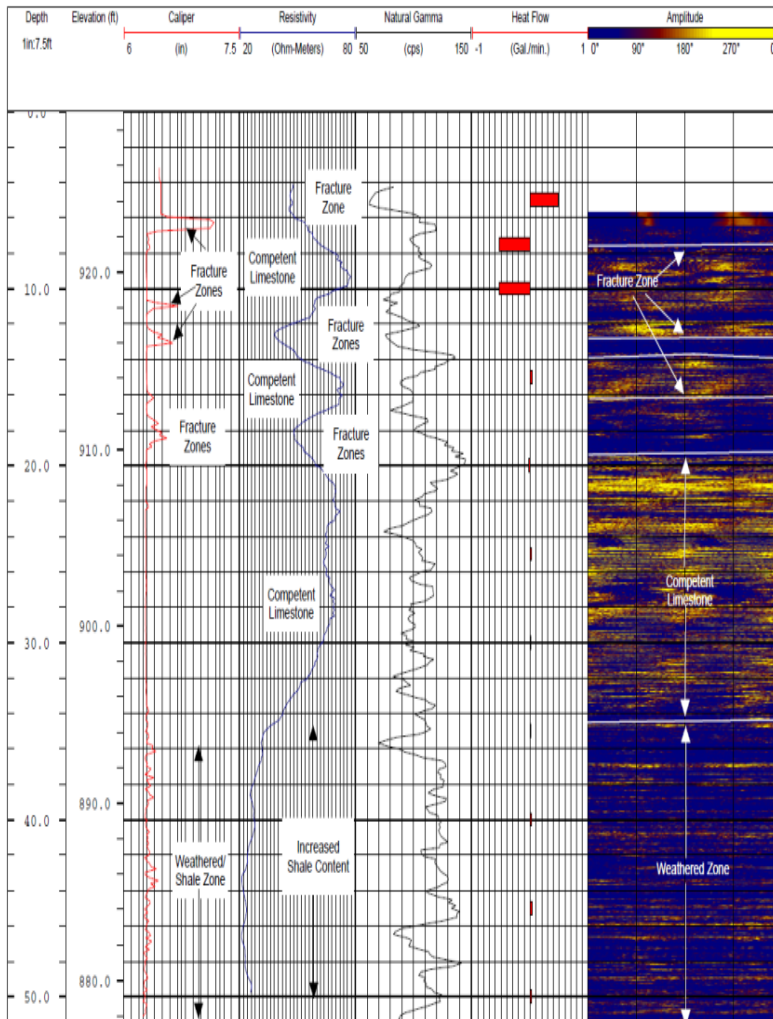
Search for Preferential Bedrock Flow Pathways Beneath a Travel Plaza

Challenge:

MUNDELL recently performed a geophysical investigation to locate bedrock fracture/weathering zones in limestone bedrock that were believed to be controlling both lateral and vertical contaminant migration across a travel plaza site in central Kentucky.

Action:

MUNDELL used two dimensional electrical resistivity to image the fracture/weathering zones beneath the site, along with borehole logging to better understand the bedrock flow conditions within those zones. The borehole logging included caliper, resistivity, natural gamma, heat pulse flow, and acoustic televiewer logs.



Results:

Based on the geophysical survey, a complex system of bedrock fractures weathering zones were characterized beneath the site. These zones were then used for a targeted injection remediation plan, which assisted in the site cleanup.