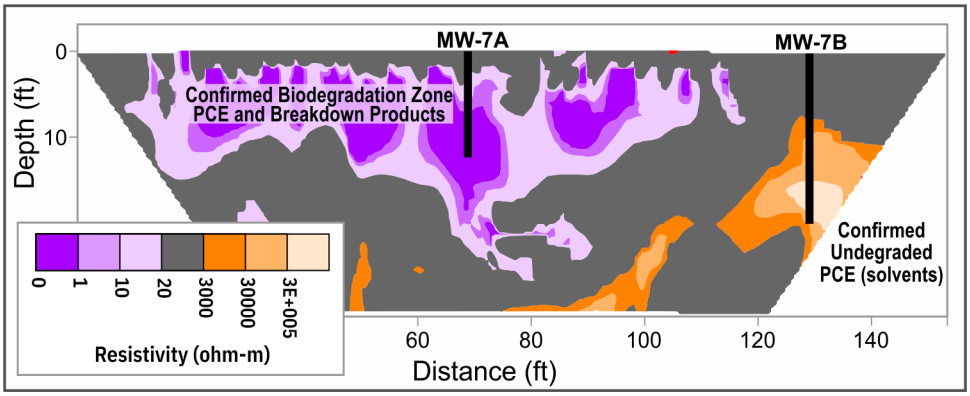
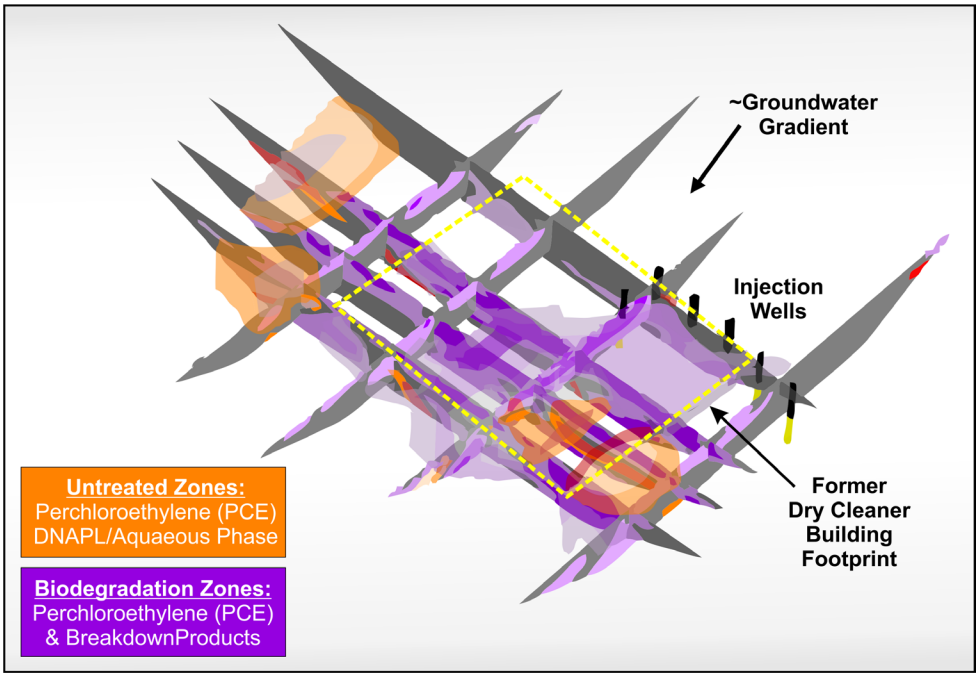
Case Study
Dry Cleaner Site (Solvents/Bio)

Aestus was asked to assist with a dry cleaners site which was operational from 1945 to 1977. The state led cleanup involved a soil excavation and series of bioremediation injectates. The existing monitoring well network showed PCE concentrations above regulatory standards following the remediation attempt. Aestus used our non-invasive ultra-high resolution subsurface scanning method to image the site and update the CSM



Aestus integrated historical and targeted confirmation drilling data onto our GeoTrax Survey™ 2D subsurface images as well as our 3D visualization model. Drilling and sampling data were used to determine how varying electrical resistivity levels correlated to contaminants, geology, and bioactivity.

Purple zones show where injection work effectively stimulated biodegradation. Updated CSM shows undegraded/untreated PCE in orange zones requiring additional remediation.



Results

- ☑ Showed zones where injection remedy stimulated biodegradation
- ☑ Identified remnant DNAPL source zone area not treated
- ☑ Located second DNAPL source zone not in pre-Aestus CSM
- ☑ Discovered DNAPL impacts migrating deeper than originally thought
- ☑ Confirmed existing monitoring well network yielded incorrect CSM

More Certainty & Optimal Outcomes

Our client needed more certainty in their subsurface data. We integrated existing site data, our GeoTrax Survey™ electrical images, and targeted confirmation drilling data to yield a more complete understanding of the subsurface. This allowed them to:

- ☑ Make better technical/business decisions
- ☑ Have clear roadmap for next steps
- ☑ Achieve project goals faster and cheaper

Aestus

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