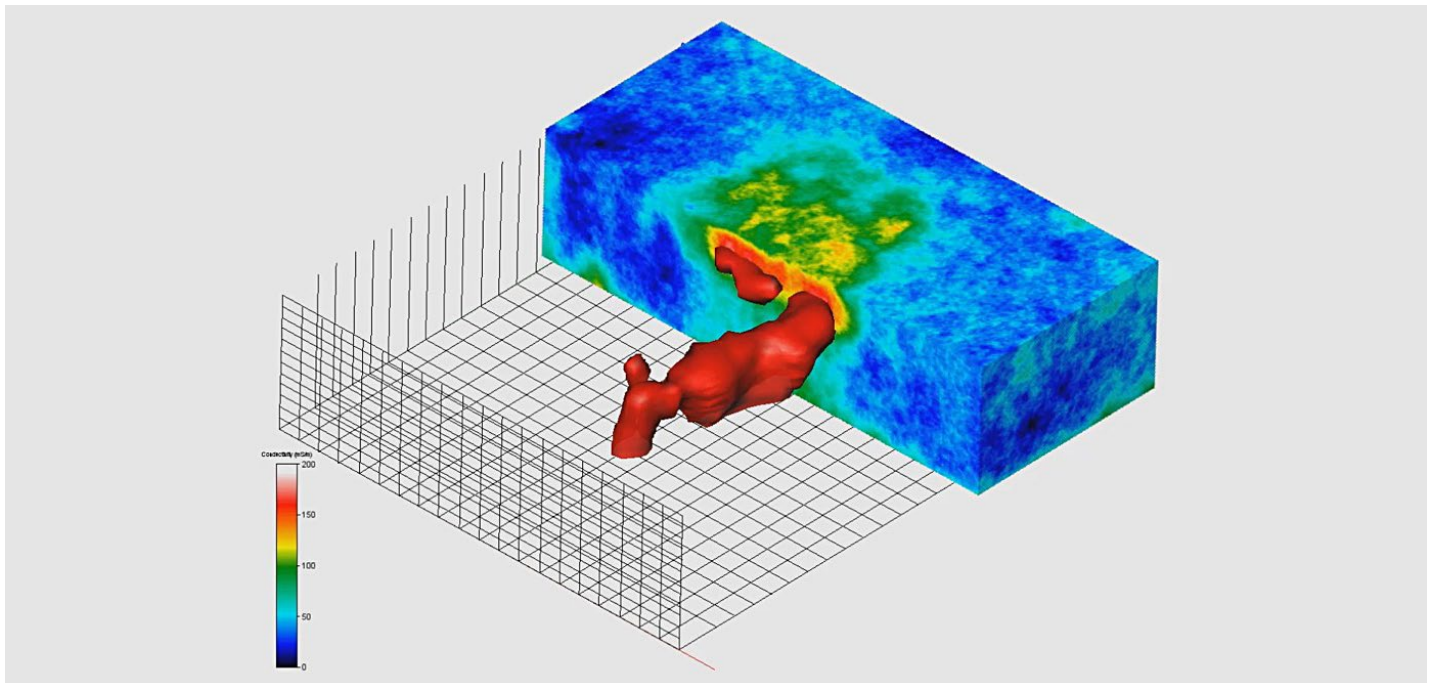


Rapid Conductivity Volume

DMT Geosciences – Environmental Geophysics



DMT Geosciences Ltd. specializes in Rapid Conductivity Volume (RCV), which is a flexible and multi-method approach to characterizing the volume, position, and extent of conductive spills in soil (e.g. saline or high TDS). It has been proven valuable for environmental investigations, remediation planning, risk assessments, and subsurface characterization programs.

The RCV method provides accurate volume calculations in comparison to conventional 2D profiling methods such as resistivity (ERI) or electromagnetic (EM) methods.

Incorporating RCV into a site characterization program is a simple way to distinguish electrically contrasting units.

Example Applications:

- Delineating the lateral and vertical extent of contaminant plumes
- Determining of the volume of contaminated material
- Locating the source of a contaminant leak
- Saltwater intrusion mapping
- Aquifer delineation
- Locating buried fluid migration pathways

For expert consultation on your environmental investigation, please contact DMT Geosciences Ltd. at our Calgary or Vancouver office locations.

Seismic Methods

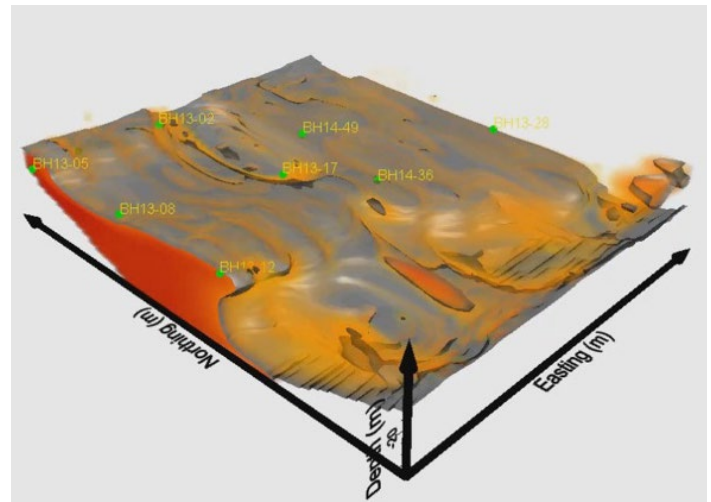
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When an electrical contrast does not exist between the contaminants and the surrounding environment, as with hydrocarbons and DNAPLs, the bounding surfaces may be delineated using various seismic methods.

In these situations, refraction or reflection seismic surveying are used to provide accurate depths to the impermeable layer, usually at significantly lower costs than drilling.

Refraction seismic is cost-effective and is often used for the determination of bedrock and water table depths.

With a known bounding surface and water table depths, cut-off and recovery trenches may be excavated to control groundwater flow on site and to begin in-situ remediations.



Three-Dimensional visualization of a target body

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