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Permafrost Mapping

CASE HISTORY: Risk Management; mapping permafrost and sinkholes along the Dempster and Campbell Highways

Location: Yukon, Canada

Objectives: Identify sinkholes, ice-rich permafrost and underlying factors contributing to permafrost degradation and sinkhole development.

The Government of Yukon, Department of Highways and Public Works, Transportation Engineering Branch selected DMT to design and conduct a geophysical investigation to determine the distribution and extent of permafrost related embankment deficiencies on the Campbell and Dempster Highways.

DMT designed a program with a comprehensive suite of geophysical methods specifically customised to the environment, geology and objectives. DMT provided interpreted drawing cross-sections from our proprietary compilation and analysis methodology utilising the combination of geophysical responses.



MASW



Ground Penetrating
Radar



OhmMapper

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