

INNOVATIVE SOLUTIONS TO AGE OLD QUESTIONS



**Western
Heritage**

Geoarchaeological Services

Western Heritage provides advanced geoarchaeological services that enable enhanced analytical capability for crews doing archaeological assessments and mitigation. For those interested in building a science-based understanding of landscape processes, Western Heritage can provide custom geoarchaeological services that considerably augment standard stratigraphic recording and interpretation.

Focus on Sediments - This *sediment-based approach* uses a variety of analyses that greatly enhance the interpretation of traditional archaeological data (artifacts and features) to produce a scientifically supported interpretation of the cultural and environmental dynamics of a typical archaeological landscape. Geoarchaeological services at Western Heritage include:

Detailed stratigraphic analysis - establishing frameworks for understanding and interpreting archaeological and environmental data

Luminescence profiling - leading-edge technology to document relative age, sediment depositional histories, and target samples for formal dating

Field-based magnetic susceptibility - detecting in situ burning and soil development

Thin section analysis - detailed, microscopic-scale interpretations of soils and sediments

Near-surface geophysics - assessments of subsurface features using ground penetrating radar, magnetometry, soil resistivity, and downhole magnetic susceptibility survey

Western Heritage provides education and outreach services, conducting field- or classroom-based workshops on recognizing, describing, and interpreting stratigraphies. We also regularly collaborate with individuals in consulting and research settings to integrate sediment-based interpretations with inferences from traditional archaeological materials and other palaeoenvironmental data.



DigitalGlobe™
LICENSED RESELLER

ISO 9001 Certified

Calgary - St Albert - Grande Prairie - Saskatoon - Regina - Swan River - Winnipeg - Thunder Bay
www.westernheritage.ca 1-306-975-3860 1-877-669-0784 info@westernheritage.ca