



GEOTECHNICAL ENGINEERING

Vertex's geotechnical engineering team uses a comprehensive understanding of soil and rock mechanics to investigate subsurface conditions to be used in the evaluation of the stability of slopes and embankments or the design of structures, foundations and earthworks operations.

We provide a wide range of geotechnical engineering services including commercial development, public infrastructure, industrial facilities, pipelines and utilities.

Vertex has an integrated team of professionals across Canada and the U.S., enabling us to ensure that our clients maintain regulatory compliance with various standards including, but not limited to:

- Navigable Waters Act
- Water Act Code of Practice
- Environmental Protection & Enhancement Act

Our engineers maintain designations with Professional Associations in British Columbia, Alberta, Saskatchewan and Ontario.

Services

- Geotechnical Site Investigations
- Instrumentation Planning, Installation, Monitoring & Analysis
- Slope Stability Analysis
- Erosion Control Assessment
- Earthworks Construction Monitoring
- Planning of Materials Testing Program & Results Evaluation
- QA/QC Program Design & Results Evaluation
- Groundwater Assessment & Monitoring
- Geohazard Assessment & Mitigation
- Assessments for HDD Pipeline Crossings
- Foundation Design, Assessment, & Installation Monitoring (including piles)
- Storage Pond & Tank Pad Design
- Stormwater & Culvert Design
- Foundation Design & Assessment (Including Piles)
- Retaining Wall Design (MSE Walls & Reinforced Earth Structures)
- Tailings Planning, Monitoring & Testing
- Borrow Pit Assessment, Classification & Mapping