



"Engineering and Testing Solutions That Work for You"

**GEOTECHNICAL
ENVIRONMENTAL
CIVIL
INSPECTIONS
MATERIALS TESTING**



"Engineering and Testing Solutions That Work for You"



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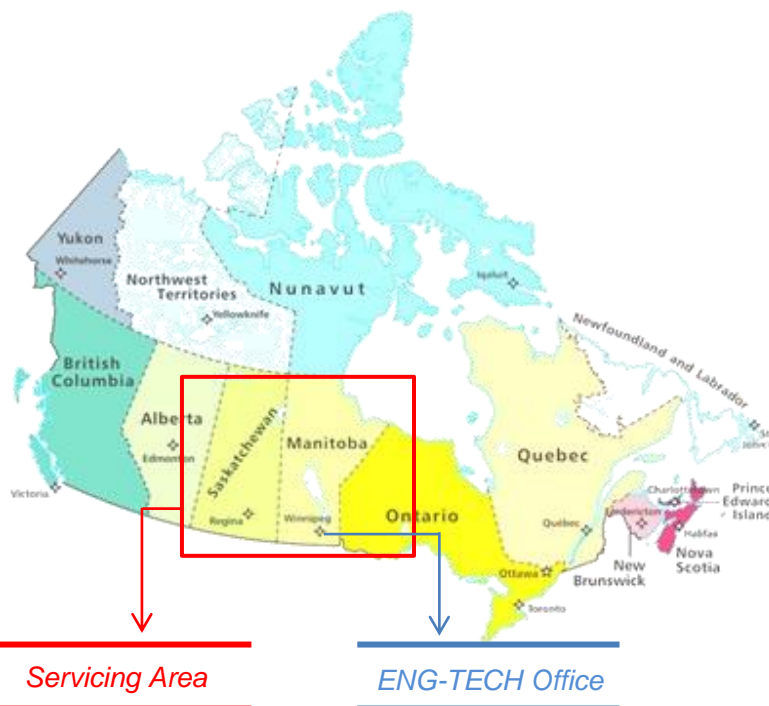
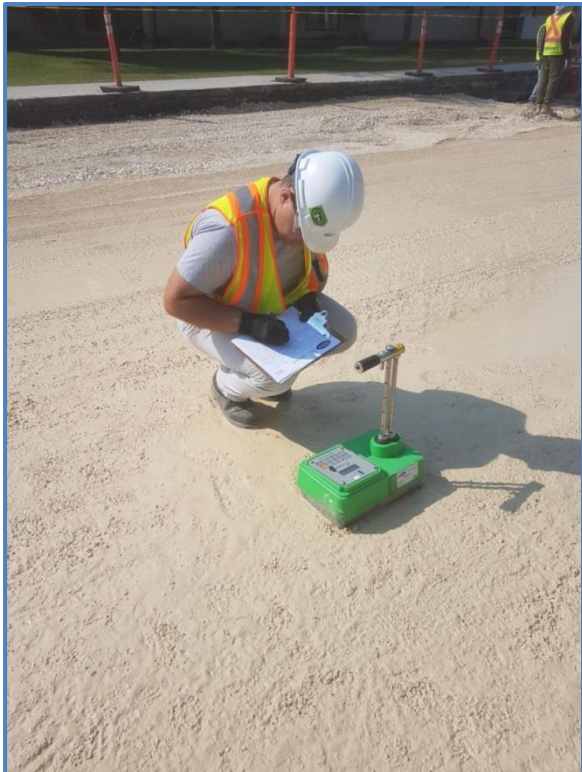
Company Overview



ENG-TECH Consulting Limited (ENG-TECH) is an employee owned company with a full time staff of 35 and typical seasonal staff of 45. ENG-TECH specializes in providing geotechnical and environmental engineering, as well as materials testing and inspection services from our 716 m² office and laboratory in Winnipeg, Manitoba.

The company offers a full range of geotechnical services such as foundation design and inspections, slope stability, shoreline erosion protection design, seepage and groundwater modeling, soil assessments, stratigraphy classification, including frost and swelling evaluations of soils. ENG-TECH also performs numerous civil engineering drainage plans, and phase environmental services which include items such as Phase I to IV ESA's, along with site remedial designs, and underground storage tank removal.

ENG-TECH was founded in 1999 to provide consulting, design and materials testing services, with a special understanding of the unique conditions of prairie geography and an in depth knowledge of municipal and provincial laws. In the twenty years the company has existed, we have performed an extensive array of services related to inspection, materials testing, and in the areas of environmental, civil and geotechnical engineering.



Project References (Select Projects from 1999 - Present)

ENG-TECH has worked with private owners, condominium owners groups, municipal and provincial governments, architecture and construction firms, crown corporations and the federal government.

Geotechnical and Civil Engineering

- Gabion Basket Wall Design, University College of the North, Thompson, MB
- Retaining Wall, Investors Group Stadium, Winnipeg, MB
- Annabella Walkway Redesign, Winnipeg, MB
- Crescent Drive Canoe Launch Site, Winnipeg, MB
- Water Line Relocation and Reconnection, Redditt, ON
- 30 Acre Greenhouse Project, Dauphin, MB
- Historical Grave Site Preservation, Red Rock Lake, MB
- Roadway Investigation, Niverville, MB
- Curries Landing Road, RM of Cornwallis, MB
- Slope Stability, Erosion Control and River Access Development, Winnipeg, MB
- Slope Stability Assessment and Design, Sagkeeng First Nation, MB
- Hog Barn Site Development and Lined Manure Storage Lagoon, Eddystone, MB

Environmental Engineering

- Phase II, III and Remediation Action Plan combined, Site Assessment and Remediation, Virden, MB
- Phase III ESA and In-Situ Remediation, Northwestern, ON
- Phase I, II, III and Remediation Action Plan combined, Environmental Site Assessment, Powerview, Pine Falls, Manitoba

Quality Control Materials Testing

- Southwest Rapid Transit (Stage 2) and Pembina Highway Underpass, Winnipeg, MB
- Enbridge Job 99 – Line 3 Replacement Project and Proposed Pump Station Expansion, MB
- Rocanville Scissors Creek Shaft Concrete, Saskatchewan, MB
- Winnipeg Richardson International Airport
- Northlands Denesuline First Nation Lagoon Project, Lac Brochet, MB
- Keewatinohk Converter Stations, Gillam, MB
- Riel Converter Stations, Winnipeg, MB
- Canadian Forces Base, Shilo, MB
- Thompson Airport, Thompson, MB
- Tanco Mine 60, Bernic Lake, MB
- Hdbay Mining, Snow Lake, MB
- 777 Mine, Flin Flon, MB





Asphalt

ENG-TECH provides complete asphalt laboratory and site services and as a member of the Canadian Technical Asphalt Association (CTAA) participates in annual mix exchange programs:

- Marshall Mix Analysis
- Mix Design and Review
- Coring and Failure Analysis
- Plant Inspections
- Mobile Laboratory for Site Services
- Quality Control and Quality Assurance



Soils

ENG-TECH provides a wide range of field and laboratory services for testing and evaluations of soils:

- Field Density Testing using a Nuclear Densometer and Sand Cone
- Moisture Density Relationship (Standard Proctor)
- Particle Size Analysis
- Atterberg Limits
- California Bearing Ratio (CBR)
- Hydraulic Conductivity (Flexible Wall Permeameter)



Aggregates

ENG-TECH provides comprehensive aggregate analysis for concrete, asphalt, granular fill and rip rap usage:

- Sieve Analysis
- Freeze-Thaw
- Los Angeles Abrasion (L/A)
- Soundness Loss
- Low Density
- Flat and Elongated Particles
- Organic Impurities
- Sand Equivalent
- Relative Density and Absorption



ENG-TECH is involved in a variety of project sizes in the field of environmental and civil engineering in areas such as:

ENVIRONMENTAL ENGINEERING

- Phase I-IV Environmental Site Assessments
- Asbestos Inspections
- Underground Storage Tank Removal
- Remedial Action Plans
- Monitoring and Evaluation Plans
- Treatment Cell Design and Inspection

CIVIL ENGINEERING

- Land Drainage
- Surveying
- As-Built Surveys
- Road Design
- Pavement Design
- Project Management





GEOTECHNICAL ENGINEERING

- Foundation Designs & Inspections
- Slope Stability Analysis and Designs
- Retaining Wall Designs
- Project Management
- Pavement Design
- Lagoon Evaluations and Designs
- Dyke Designs
- Soil & Bedrock Investigations and Evaluations
- Ground Water Seepage Modelling and Analysis
- Shoreline Erosion Protection Analysis
- Designs

Foundation

- Concrete Piles
- Driven Timber, Steel, and Concrete piles
- Caissons and Footings
- Soil Investigations
- Pile Load Tests
- Settlement Assessment and Testing
- Inspections



Slope Stability and Shoreline Erosion

- Installation of Piezometers and Slope
- Inclinometers
- Two and Three Dimensional Stability Analysis
- Pore Water Pressure Monitoring and Modelling
- Riverbank Regrading and Erosion Protection
- Rockfill Caisson
- Retaining Walls (Gabion, Binwall, Segmental Block)
- Rockfill Caissons, Berms, and Shearkeys
- Sand Drains
- Wick Vertical Drains



MINING

- Cable Bolt and Resin Rebar Inspections
- Shotcrete Testing
- Concrete Testing
- Grout Testing



MATERIALS TESTING AND ASSESSMENT

ENG-TECH offers a wide range of in-house material testing services and is fully equipped to test soils, aggregates, asphalt, mortar, concrete and shotcrete.

ENG-TECH Consulting Limited's laboratory is certified by the Canadian Council of Independent Laboratories (CCIL):

- Qualification Code for Concrete Testing Laboratories; CSA Standard A283-19
- Concrete Category; Type Q, Type R and Type S with Additional Tests
- Asphalt Mix Compliance - Marshall Method (Type B); Ignition Method - D6307
- Asphalt Mix Design - Marshall Method (Type A)
- Aggregate Quality Control Laboratory (Type C)
- Aggregate Quality Control Laboratory (Type D)

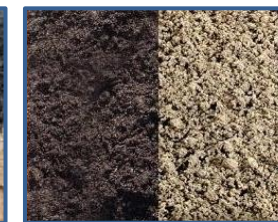
ENG-TECH's laboratory is involved in testing and evaluating materials in areas such as:



Concrete, Shotcrete and Mortar



Asphalt



Soils and Aggregates



Quality Control & Quality Assurance



Mobile Testing Laboratory

Concrete

ENG-TECH provides a wide range of field and laboratory services for testing and evaluations of concrete and is equipped to provide a comprehensive condition survey of bridge decks and parking structures:

- Concrete - Site Services
- Mix Design Preparation and Review
- Diamond Coring
- Compressive, Flexural and Tensile Strength
- Scaling Resistance
- Freeze Thaw
- Microscopical Analysis
- Mortar and Grout
- Plant Inspections
- Half Cell Potential
- Shotcrete
- Impact Echo
- Chloride Analysis
- Delamination
- Reinforcing Steel; Cover and Locate
- Quality Control and Quality Assurance

