



GROUND ENGINEERING LTD.

CIVIL & GEOENVIRONMENTAL ENGINEERS

REGINA • SASKATCHEWAN • CANADA

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CORPORATE PROFILE

GE Ground Engineering Ltd. is a Saskatchewan based engineering company established in 1972 with background experience and facilities directed solely to provide specialized consulting services in Geotechnical, Environmental, Civil, Roadway and Materials Engineering.

GE Ground Engineering Ltd. is an experienced organization devoted solely to solving geotechnical, environmental and civil engineering problems. To the mining industry, the architect, the quantity surveyor, the civil engineering or foundation piling contractor, the site developer and to local authorities, as well as to building contractors, GE Ground Engineering Ltd. offers an all-embracing service.

Our “Geoenvironmental Package” aims at providing you with just one service of intelligence, one single point of contact from the time you initiate site finding to the moment building contractors move in and start moving up.

FACILITIES

Our headquarters and main testing laboratory are located at Regina in a modern one storey building, fully equipped with a modern laboratory capable of undertaking a wide range of soil, concrete and asphalt testing. In addition, our concrete testing laboratory has been certified and meets CSA requirements for Category I and additional tests –5C and –10C.

KEY PERSONNEL

Tim Adelman, B.Sc., P.Eng., P. Geo., President and CEO
Steve Harty, P. Eng., Vice President, Sr. Geotechnical Engineer
Paul Walsh, P. Eng., Sr. Geotechnical Engineer
Kelly Maunder, A.Sc.T., Laboratory Supervisor

STAFF

The Company presently employs 2 Civil Engineers, 1 Geological and 1 Environmental Engineer, all of whom have qualifications in geotechnical, environmental, roadway engineering, and/or engineering geology, and materials testing. Other members of the technical staff are Engineering Technologists, all of whom have qualifications and experience in surveying, construction inspection and QA/QC testing of soils, concrete and asphalt. A number of consultant specialists are retained to provide advisory services to the Company and its clients.

 A MEMBER ORGANIZATION OF THE ASSOCIATION OF CONSULTING ENGINEERS OF CANADA

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- SOIL MECHANICS AND FOUNDATION CONSULTANTS
- SITE INVESTIGATIONS
- FOUNDATION DESIGN
- SPECIFICATIONS
- CONSTRUCTION SUPERVISION
- INSPECTION AND LABORATORY TESTING SERVICES
- SOILS
- CONCRETE
- ASPHALT
- PAVEMENT DESIGN AND EVALUATION
- SLOPE STABILITY
- REPORTS
- SEEPAGE CONTROL BARRIERS FOR MUNICIPAL AND INDUSTRIAL WASTE CONTAINMENT
- ENVIRONMENTAL STUDIES

PRINCIPAL FIELDS OF SPECIALIZATION

The Geotechnical Investigation Service

- Site reconnaissance and selection;
- Exploratory boring and sampling;
- Geological mapping and terrain evaluation;
- Electric logging for stratigraphic analysis;
- Air photo interpretation;
- Instrumentation and in-situ measurement of soil, rock and water, including use of piezometers, pressure cells and tilt meters;
- Materials investigation.

The Design and Advisory Service

- Foundation design services;
- Engineering geology studies;
- General geotechnical studies;
- Slope stability studies;
- Seepage studies;
- Shoring & bracing systems;
- Foundation underpinning designs;
- Settlement analyses;
- Earth pressure studies;
- Mineral loss of use studies for First Nations.
- Earthwork designs;
- Asphalt mix designs;
- Pavement structure designs;
- Soil stabilization studies;
- Concrete mix designs;
- Engineering reports;
- Project planning management;
- Soil bentonite sealant systems;
- Slurry trench cutoff walls;

The Environmental Service

- Preacquisition environmental site assessments;
- Environmental auditing & liability assessment;
- Identifying & defining contamination problems, including impact & risk assessment;
- Evaluating and selecting potential remedial alternatives and obtaining environmental approvals;
- Designing remedial systems, preparing plans, specifications and contract documents;
- Project and construction management;
- Estimating construction costs and preparing construction schedules;
- Mitigation and monitoring;
- Industrial liquid, air and solid waste management.

The Construction Inspection and QA/QC Testing Service

- Load-settlement measurement;
- Full scale pile load tests;
- Inspection of foundation installations, earthwork, footings, piles, caissons;
- Instrumentation and performance monitoring;
- QA/QC testing of soils, concrete and asphalt materials;
- Special services such as LOK-TEST for in-place testing of concrete.

TYPICAL PROJECTS

- CCRL – Co-op Refinery Expansion Project – Complete Foundation Engineering Package, including Full Scale Pile Load Tests.
- EnCana Oil & Gas – CO₂ Recycle Compressor Expansion – Geotechnical Investigation and Materials Testing.
- SaskPower – Queen Elizabeth Power Plant Expansion, Saskatoon, SK. – Geotechnical Investigation and Construction Inspection.
- SaskPower – Rushlake Creek Wind Power Turbines – Geotechnical Investigation, Construction Inspection and Materials Testing.
- Deer Valley Golf & Estates – Geotechnical Investigation including slope stability study for new golf course and residential development.
- Harvard Developments – Environmental Site Assessment and Site Remediation for Shooting Range – Regina, SK.
- City of Regina – Geotechnical Investigation for Masterplan Drainage Area 15 – (Phase II) Dieppe.
- SaskWater – Geotechnical Investigation for Avonlea Dam.
- Inland Cement Limited, Industrial Site, Regina, SK. – Investigate extent of contamination.
Project Manager for partial site remediation to permit land development. Ongoing groundwater monitoring.
- New Grade Heavy Oil Upgrader, Regina, SK. – Complete Geotechnical Engineering Package.
- University of Saskatchewan-Cleanup and Remediation of Chemical Landfill, Saskatoon, SK. – Ongoing groundwater monitoring.
- IPSCO Inc., Regina, SK. – Complete Geotechnical Engineering Package.
- Defence Construction Canada, CFB Moose Jaw, SK. – Environmental Site Assessment – NATO Flying Training.
- City of Regina – Prepare Mitigation Plan for Existing Landfill.
- CN North America – Environmental Site Assessments – Phase I & II.
- CP Rail – Environmental Site Assessments, Phase I and II.
- Federal Pioneer Limited – Remedial Work to Contain PCB Spill, Regina, SK. – Ongoing groundwater monitoring for SaskPower.
- Mercury Control Implementation – Thunder Creek Area, Moose Jaw, SK.
- Pioneer Grain Limited, Crooked River, SK. – Complete Foundation Engineering Package for Grain Terminal Facilities.
- Cargill Grain Limited, Moose Jaw, SK. – Complete Foundation Engineering Package for Grain Terminal Facilities.
- Saskatchewan Highways and Transportation – Surfacing Designs.
- SaskEnergy – Slope Stability Studies.
- Kahkewistahaw First Nation, Saskatchewan – Mineral Loss of Use Study.
- Cote First Nation, Saskatchewan – Mineral Loss of Use Study.
- Prophet River First Nation, British Columbia – Mineral Loss of Use Study.
- Fort William First Nation, Ontario – Mineral Loss of Use Study.
- Siksika First Nation, Alberta – Mineral Loss of Use Study.