



Peto MacCallum Ltd. (PML) was established in 1973 as the result of a merger of Peto Associates Ltd., founded in 1956, and the Ontario Division of Racey, MacCallum & Bluteau Ltd., a subsidiary of Racey, MacCallum and Associates Limited, chartered in 1952.

The staff averages 170 engineers, geoscientists, hydrogeologists, geologists, technologists and other support personnel. Certified laboratory facilities are operated in four locations throughout southern Ontario.

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FIELDS OF SPECIALIZATION

The company has carried out more than 80,000 assignments for more than 7,000 clients, including agencies and departments from all levels of government, private corporations, and professional firms such as architects and engineers in the following principal fields of specialization:

- ◆ **Geotechnical and foundation engineering**
- ◆ **Geoenvironmental and hydrogeological services**
- ◆ **Quality assurance / quality control inspection and testing**
- ◆ **Construction materials engineering**
- ◆ **Building science**

PROJECT TYPES

BUILDING CONSTRUCTION

- ◆ Agricultural
- ◆ Automotive manufacturing / assembly
- ◆ Commercial and shopping centres
- ◆ Educational
- ◆ Food and beverage processing
- ◆ Highrise commercial and residential
- ◆ Hospitals and medical facilities
- ◆ Industrial and manufacturing
- ◆ Institutional
- ◆ Parking structures
- ◆ Public and government buildings
- ◆ Recreational
- ◆ Residential

INFRASTRUCTURE

- ◆ Dams
- ◆ Distribution and transmission lines
- ◆ Erosion and flood control
- ◆ Gas distribution systems
- ◆ Irrigation systems
- ◆ Landfill, waste disposal, incineration
- ◆ Pipelines
- ◆ Power
- ◆ Sewage, waste and water treatment plants
- ◆ Subdivision / site servicing
- ◆ Tunnels
- ◆ Water and wastewater systems

TRANSPORTATION

- ◆ Airports
- ◆ Bridges
- ◆ Grade separations
- ◆ Highways
- ◆ Marine facilities
- ◆ Overpasses
- ◆ Parking lots
- ◆ Railways
- ◆ Rapid transit
- ◆ Roads
- ◆ Subways
- ◆ Transit terminals

RANGE OF SERVICES

PRE-DESIGN / FEASIBILITY

- ◆ Condition surveys
- ◆ Designated substances surveys / abatement plans
- ◆ Environmental assessment, monitoring, restoration
- ◆ Hydrogeological site assessment
- ◆ Geotechnical site investigations
- ◆ Recycled construction material options
- ◆ Gravel, aggregate and clay searches
- ◆ Pavement evaluations
- ◆ Value engineering and life cycle analysis
- ◆ Technical assistance for roofing and waterproofing

DESIGN SUPPORT

- ◆ Foundation selection
- ◆ Lateral earth pressures for retaining structures
- ◆ Estimated total and differential settlements
- ◆ Groundwater consultation
- ◆ Slope stability
- ◆ Engineered fill
- ◆ On-site reuse of excess materials
- ◆ Off-site disposal options for excess materials
- ◆ Pavement structure design
- ◆ Materials selection consulting
- ◆ Development of QA/QC plans, manuals and procedures
- ◆ Design of asphaltic concrete and concrete mixtures

CONSTRUCTION - CONSULTATION, INSPECTION AND TESTING

- ◆ Construction procedures consulting
- ◆ Excavation, shoring and underpinning
- ◆ Footing subsoil and deep foundation systems
- ◆ Earthwork, compacted backfill and granular base
- ◆ Aggregate quality
- ◆ Asphaltic concrete pavement
- ◆ Project management for retrofit
- ◆ Cast-in-place, precast and prestressed concrete
- ◆ Reinforcing steel
- ◆ Structural steel and welding
- ◆ Masonry
- ◆ Building envelope
- ◆ Bulletin 19 inspection
- ◆ Technical audits and reserve fund studies

EXISTING CONDITIONS - INVESTIGATION AND ANALYSIS

- ◆ Failure investigations
- ◆ Differential settlement and subsidence
- ◆ Slope, embankment, landslide and erosion
- ◆ Structure deterioration
- ◆ Chloride-ion determination
- ◆ Concrete covermeter and delamination
- ◆ Half-cell corrosion potential
- ◆ Building envelope leakage and damage
- ◆ Leachate sampling, analysis and monitoring
- ◆ Waste minimization support services
- ◆ Landfill rehabilitation studies
- ◆ Litigation