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**John D. Paterson & Associates Limited** commenced operations in 1956, and has remained one of the longest continuously operating engineering firms offering geotechnical and construction materials testing services in Ontario. The firm maintains CCIL Certified concrete, asphalt and aggregate testing laboratories, and a sophisticated geotechnical testing laboratory. The staff comprises a well qualified team of Professional Engineers, Hydrogeologists, Archeologists, Civil Engineering Technologists and CCIL Certified Technicians.

Geotechnical Engineering  
Environmental Engineering  
Hydrogeology  
Geological Engineering  
Materials Testing  
Building Science  
Archaeological Studies

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### SUMMARY OF SERVICES PROVIDED

#### BUILDING SCIENCE ENGINEERING

- Roofing and Waterproofing Inspection
- Insulation and Air Barrier Inspection
- Curtainwall and Cladding Inspection
- Structural Steel and Welding Inspection
- Fireproofing Inspection
- Roof Moisture Surveys
- Building Envelope Investigations
- Forensic investigations
- Parking Garage investigations
- Roof maintenance Planning
- Reserve Fund Studies
- Remedial Design
- Tendering and Contract Administration
- Vibration and Blast Monitoring

#### GEOTECHNICAL ENGINEERING

- Subsurface Investigations
- Soil & Rock Mechanics
- Laboratory/Field Testing
- Settlement Analysis
- Damage Failure / Analyses
- Pavement Design and Analyses
- Inspection during Construction
- Slope/Excavation Stability
- Engineered Fill Design
- Permafrost Studies

#### GEOLOGICAL ENGINEERING

- Quarry Investigations
- Aggregate Resource Studies
- Core Logging and Identification
- Evaluations / Appraisals
- Erosion Studies
- Rock Slope Stabilization

#### ENVIRONMENTAL ENGINEERING

- Environmental Site Assessments
- Site Characterizations
- Site Remediation
- Waste Studies
- Air Quality Investigations
- Site Decommissioning and Cleanup
- Asbestos Studies

#### HYDROGEOLOGICAL

- Groundwater Assessment
- Water Well Studies
- Landfill Studies
- Reasonable use Studies
- On-Site Sewage System Design
- Terrain Analysis
- Dewatering
- Water Quality Monitoring

#### MATERIALS TESTING AND QUALITY CONTROL

- Concrete and Asphalt Mix design
- Concrete Compressive Strength Tests
- Asphalt and Concrete Compliance Testing
- Chloride Ion Testing
- Concrete Field Testing
- LOK Testing
- Bond Testing
- Plant Inspections
- Failure Investigations (Concrete-Asphalt)
- Mortar and Grout Testing
- Masonry Block and Brick Testing
- Freeze Thaw Testing
- Petrographic Analysis

#### ARCHEOLOGICAL STUDIES AND INVESTIGATIONS

### NORTH BAY BRANCH OFFICE AND LABORATORY

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Please Visit our Web Site at: [www.patersongroup.ca](http://www.patersongroup.ca)

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