



LEVELTON

MATERIALS Engineering

Quality Assurance and Quality Control

For over 30 years, Levelton Consultants Ltd. has supplied Materials Engineering services to a diverse range of clients and building projects in British Columbia. These services have assisted in all aspects of evaluating, selecting and using construction materials, quality assurance and quality control, and both investigating and designing repair and rehabilitation programs for damaged structures. In addition, Levelton is well known for its expertise in developing products and materials for specific applications and meeting specialized testing requirements.

The Nature of QC and QA



The interrelationship and responsibilities of the parties in construction have been better defined in recent years. This has led to the development of QA/QC in which:

- The Contractor is responsible for the quality of their work and thus conducts QC in accordance with a Quality Control Plan.
- The Owner's prerogative is to monitor the plan to assure that it is being implemented. This is the QA function.

When properly managed and implemented, this separation of responsibility produces a cost effective approach in which the Contractor can determine their destiny by controlling schedules and construction methods. Levelton has been involved in QC or QA roles on projects in which the above approach has worked well.



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The Key Elements Are:

- a commitment by all parties to make the process work
- mutual respect amongst parties
- trained and experienced personnel
- integration of the QC plan into the construction process
- pre-work preparation

Levelton is capable of assisting with these elements.

Qualifications:

Levelton Consultants Ltd. is one of Canada's leading QA and QC Consultants for construction. Our laboratory is certified to CSA Standard A283, "Qualification Code for Concrete Testing Laboratories" Category II with 8 additional endorsements. We have provided consulting services for many large and demanding construction projects including: major airports, bridges, highways, tunnels, marine shipping terminals, commercial construction and industrial facilities.



In Managing the Quality of Major Construction Projects, we:

- Review specifications for constructibility, completeness and QA/QC issues
- Develop specifications for QA/QC programs



- Manage and operate QA programs for Owners or QC plans for Contractors
- Qualify materials and submittals
- Conduct field, plant and shop inspections
- Conduct field and laboratory testing
- Commission and operate field laboratories for large projects
- Review and audit QC programs carried out by others

Levelton's unique ability to combine talents through diverse in-house expertise and laboratory facilities assures a high quality, comprehensive team approach on all projects. We can call upon experts from all six of our practice groups:

Materials Engineering, Metallurgy and Corrosion, Environmental, Building Science, Geotechnical and Physical and Analytical Testing Services.

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