



# PROJECT REPORT

## CHILLIWACK FIRE DEPARTMENT, CHILLIWACK B.C.

<b>EQUIPMENT:</b>	RIC 7000
<b>PROJECT:</b>	CHILLIWACK FIRE DEPARTMENT
<b>LOCATION:</b>	CHILLIWACK B.C. CANADA
<b>PURPOSE:</b>	FOUNDATION SUPPORT

Subgrade soils for this site consisted of silty sands and sand with silt. The Rapid Impact Compactor was used as a remedial ground improvement option, with the expectation that the upper 10 to 15 feet would be treated, with a cone depth of about 12 inches.

However, typical cone depth (depth of impact crater) was on the order of 3 feet, with an improvement in the blow count from 12 to 20 at a depth of 30 feet! Average overall ground deformation (subsidence) resulting from the RIC process averaged 18 inches.

As a result, the building's foundation design was modified, resulting in a significant cost savings for the project.



Man demonstrating depth of impact crater

### APEX BUSINESS PARK, CORONA, CALIFORNIA

<b>EQUIPMENT:</b>	RIC 7000
<b>PROJECT:</b>	APEX BUSINESS PARK
<b>LOCATION:</b>	CORONA, CALIFORNIA, USA
<b>PURPOSE:</b>	FOUNDATION SUPPORT



Dynamic compaction with the Rapid Impact Compactor was used to improve approximately 300,000 square feet of building pad subgrade at this Southern California commercial site.

This remedial ground improvement method addressed treatment of random fill that had been placed in an old quarry over several years.

The RIC method demonstrated its value as a "proofing" tool, with its ability to identify and simultaneously treat pockets of loose material.



[www.rapidimpact.ca](http://www.rapidimpact.ca)

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