



Con-Tech Systems Ltd.

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November 2014

November Feature Project:

Quartz Creek Bridge No. 1607 Pier Foundations Rehabilitation

Over the past many years four foundation piers on the Quartz Creek Bridge became undermined due to washout erosion. The bridge was built during the completion of the **Trans Canada Highway** Construction at Rogers Pass in the Early 1960's. This is the major highway traffic link through the mountains connecting British Columbia with the rest of Canada.


Each foundation of this bridge was rehabilitated and stabilized by installing **CTS® TITAN Hollow Bars**, grout injection bored IBO®, using a small drill rig supported by a cable suspended platform after holes were first cored through the concrete foundations. This method guaranteed minimum vibration to the foundation during the drilling process. Excessive vibration could have caused undesirable movements of the foundation endangering the bridge structure. After consultation with the engineering firm, the Ministry of Transportation (BC MOT) approved the use of sacrificial steel design in lieu of coatings applied to the hollow bars for corrosion protection. **BAT Construction** was awarded this project and worked with Con-Tech Systems to correct the integrity of this bridge's foundations.



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Quartz Creek Project continued...

This method has by now been approved and used on a number of projects (not only in British Columbia) because of the special high quality micro alloy and fine grain steel used for these **CTS® TITAN Hollow Bars**. In order to tension-test the anchors, an inside grease coated PVC pipe was installed over the hollow bars into the grout filled drill hole. Before placing the bearing plates with welded on pipe trumpets, the bars behind the plates were covered with a corrosion inhibiting DENSO tape. All bars had been tested successfully. After testing end lock-off, a grease filled cap was placed over the anchor nut and bar end. The next step was to replace the void underneath the foundation (created by erosion), with concrete.

Upon the completion of this project the Project Engineers praised BAT Construction's professional execution of the installation of the **CTS® TITAN Hollow Bars**.

Another successful project to add to our ever growing list!



Project at a Glance:

Owner: B.C. MOT, **Contractor:** BAT Construction,
Engineers: TETRA TECH EBA, **CTS® Product:** **CTS® TITAN Hollow Bar**
Location: Trans Canada Hwy between Rogers Pass and Golden BC

For further information please contact Horst Aschenbroich at: horst@contechsystems.com

Employees Corner:

Please join us in welcoming new employee **Rajan Bombhi-Maria** to our Head Office in Delta, British Columbia. Backed with with strong academic excellence Rajan joined us on Oct. 1 of this year as a supervising senior accountant, with extremely high recommendation from previous employers. She is an enthusiastic SFU BBA graduate and is currently also working towards her CGA designation.

Rajan was born and raised in Dubai, UAE and has been working in the accounting field for approximately 15 years. Her previous work experience was in the education industry. Rajan and her husband, **Varun**, are proud parents to beautiful little **Bhoomi**, their 15 month old daughter.

Welcome to the team Rajan!



Happy Thanksgiving!



And last, but definitely not least,
to all of our friends in the U.S.A.
we sincerely wish you all
a wonderful and delicious Thanksgiving!
Enjoy the festivities!



Happy Thanksgiving



Next scheduled Con-Tech Systems Newsletter:
December 2014

