

Suite 1300 - 3777 Kingsway

Burnaby, British Columbia, Canada V5H 3Z7

604.515.5151

snclavalin.com

July 12, 2022 Project: 691490

ATTENTION: To Whom It May Concern

REFERENCE: Vera Industrial Rockworks Work in Support of Mine Waste Cover and Anchor System

Installation at Former Mine Location in British Columbia

SNC-Lavalin was requested by a confidential mining client to install a geosynthetic cover on top of former mine waste material, on a steep embankment, at the edge of a river in British Columbia. As part the cover system, an anchor system was also designed and installed to hold the cover in place. The anchor system included a combination of pinch anchors that were connected to drilled soil anchors (three sides, including both slopes and bottom) and segmented concrete retaining wall blocks ballasted (upper side).

As part of the pinch anchor installation, Vera Industrial Rockworks was contracted to drill and install approximately 148 grouted Hollowbar soil anchors along both slope edges and bottom of the anchor system. Vera was also the on-site high ropes manager, and responsible for all safety aspects with undertaking work while personnel were on rope. This included subsequent rope guiding and supervision while the cover was installed, following soil anchor installation.

The work was conducted on a steep slope, above a moving river, which requiring all personnel to be safety connected, using rope and harness, to approved tie-off points above. In addition, work was conducted between early October and late November 2021, which included above normal levels of precipitation. Working on a wet slope increased the slip potential, requiring crews to move more slowly to safely execute work.

Crews were required to participate in daily safety discussions, inspections, procedures, and suitable execution. It should be noted that there were zero safety incidents in the construction of the cover and anchor system.

A quality testing program of the Hollowbar soil anchors, consisting of random testing for creep and/or failure, was developed by our project engineer. Quality testing was undertaken by Vera, and all tested anchors successful passed.

An on-going, regular inspection program has been developed and implement for the cover and anchor system. If any issues are observed during these regularly scheduled inspections, requiring high ropes work or management, it is anticipated that Vera would be contact to help support.

We trust this provides you with the information you currently require. If you have any questions, please contact the undersigned at your earliest convenience.

Trevor Baine, P.Eng., PMP

Senior Project Manager

Environment Practice Engineering Services Canada