

## Performance Verification Plan

Date: 10 March 2016

**Site ID: 17820**

**Site location:** 3210 McCallum Road, Abbotsford, B.C.

**Author:** Gary Lin, Ph.D., P.Eng., CSAP

**Name of firm preparing the PVP:** TRI Environmental Consulting Inc.

**Risk control type:** 2

### Required risk controls:

- a) Groundwater must not be used for drinking water.
- b) Any future buildings shall be slab-on-grade construction.

### Required actions to implement the required risk controls:

- a) Mandatory communication with the site owner/operator to ensure that no water well will be installed at the site for drinking water use.
- b) Mandatory communication with the site owner/developer that the construction of any future building shall be slab-on-grade.

### Summary rationale for selecting required PVP element(s):

- a) Arsenic remains in groundwater at concentrations exceeding CSR DW standards. Currently the on-site buildings are connected to the municipal water system and no water well is observed on the site. The SLRA concluded that the site groundwater contained arsenic and drinking water wells are unlikely to be installed at the site in the future; therefore, future water risks were not calculated. Although this condition will likely remain unchanged in the future, an institutional control is recommended to ensure no water well will be installed for drinking water use.
- b) The documents listed in Schedule D indicate that vapour attenuation factors were applied to meet Contaminated Sites Regulation numerical standards at the site. These vapour attenuation factors were selected based on assumptions about the structures, locations, and depths of building existing or expected at the Site. These assumptions include the following:
  - Slab-on-grade building can be present in any location on the Site.