

February 24, 2015

## PERFORMANCE VERIFICATION PLAN

**Site ID:** Not applicable.

**Site Location:** City of Kelowna boulevard and adjacent roadway (Sutherland Avenue) located to the north of property at 1491 Sutherland Avenue with PID 009-499-172, Kelowna, BC (Off-Site Management Area; See Figure 2 of Risk Assessment).

**Author:** Audrey Wagenaar

**PVP Prepared by:** Golder Associates Ltd.

**Risk Control Type:** 1B

**Required Risk Controls:**

- a) Intrinsic soil barrier layer (at least one metre).

**Required Actions to Implement the Required Risk Controls:**

- a) None

**Summary Rationale for Selecting Required PVP Element(s):**

- a) Contamination remains in place 1 m – 3 m below ground surface at the Site (in the boulevard). The type of risk control is intrinsic because there is a soil cover in place beneath the roadway. A risk assessment was conducted for current and future construction workers as well as off-Site receptors. The risk assessment indicated that there are no risks to construction workers or off-Site receptors related to dermal, oral, or inhalation exposure to the contamination. The risk assessment for the Site indicates that construction worker and off-Site receptor related exposure to this contamination is effectively risk managed by the intrinsic soil cover. No monitoring of the intrinsic soil cover is considered necessary.

**Limitations**

The performance verification plan is based on data and information collected during the investigations conducted by Golder Associates Ltd. and is based solely on the conditions at the Site and surrounding areas at the time of the field investigations, supplemented by historical information and data obtained by Golder Associates Ltd., as described in the reports:

- *Detailed Site Investigation, Site Remediation Activities and Confirmation of Remediation, 1491 Sutherland Avenue, Kelowna, BC.* Prepared by Golder Associates, Ltd., September 11, 2014.
- *Stage 1 and 2 Preliminary Site Investigation Update, 1491 Sutherland Avenue, Kelowna, BC.* Prepared by Golder Associates Ltd., September 11, 2014.
- *Results of Additional (2014) Soil Vapour Monitoring Conducted at 1491 Sutherland Avenue, Kelowna, BC.* Prepared by Golder Associates Ltd., August 25, 2014.
- *Detailed Quantitative Human Health and Ecological Risk Assessment, Off-Site Management Area Adjacent to 1491 Sutherland Avenue, Kelowna, BC.* Prepared by Golder Associates, Ltd., February 24, 2015.

\\Golder.gds\gal\burnaby\Final\2011\1493\11-1493-0095\1114930095-002-L-Rev0\1114930095-002-L-Rev0-Performance Verification Plan 24FEB\_15.docx

---

**Golder Associates Ltd.**

500 - 4260 Still Creek Drive, Burnaby, British Columbia, Canada V5C 6C6  
Tel: +1 (604) 296 4200 Fax: +1 (604) 298 5253 www.golder.com

Golder Associates: Operations in Africa, Asia, Australasia, Europe, North America and South America

Golder, Golder Associates and the GA globe design are trademarks of Golder Associates Corporation.