

# Bothell Riverside HVOC



SHARP Report — Part 1 of 2

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• SHARP first SHARP		v2024.04.29	Ecology Info	
• SHARP rating	Low		ERTS	none
• SHARP date	02/08/2024		CSID	14970
• EJFlagged?	⊘ - No Override		FSID	93061
• LD confidence level	low		VCP	none
• Cleanup milestone	feasibility study		UST ID	none
• SHARPster	Jeff Wirtz		LUST ID	none

**This section is blank if this is the first SHARP**

SHARP Media	Scores	Confidence	Additional Factors
Indoor air	D4	high	multiple chemical types ⊘
Groundwater	C2	high	risk to off-site people ⊘
Surface water	D4	high	climate change impacts ✓
Sediment	D4	high	plant/animal tissue data ⊘
Soil	B1	high	

Location and land use info	
NE 180th Street & Woodinville Drive, Bothell, King County, 98011	
Primary parcel	SHARP it
Land use	recreational
Responsible unit	NWRO

Sources reviewed
2022, RI/FS, Kane Environmental
2022, Fact Sheet, Ecology



Primary census tract	Associated census tracts
53033021803	SHARP it

**Local demographics comments**

The census tract identifies 0 of 10 EJScreen demographics indicators greater than the 80th percentile for Washington. The Environmental Health Disparities score is 2. The EJFlag criterion is not met.

**Source/source area description**

Operations at a former machine maintenance shop are believed to have caused HVOC (Halogenated Volatile Organic Compounds; chlorinated solvents and their breakdown products) to enter soil and groundwater in the HVOC area at cleanup levels higher than allowed under MTCA.

**Soil comments**

HVOC COCs (which include PCE, TCE, (cis) 1,2-DCE, and/or VC) are present in soil throughout the Riverside HVOC Site. PCE is present in vadose zone soils (12 feet bgs) at concentrations exceeding the MTCA Method A Cleanup Level. Soil contamination with PCE extends to depths ranging between 30 and 21.5 feet bgs and is located northern and south-central portions of the Riverside HVOC Site.

**Groundwater comments**

Of the HVOC COCs identified, PCE is present in groundwater throughout the Riverside HVOC Site. PCE was documented at concentrations exceeding the MTCA Surface Water Cleanup Levels in shallow groundwater (<15 feet bgs). TCE and (cis) 1,2-DCE are also present in shallow groundwater in select locations on the Riverside HVOC Site.



Surface water comments
no comments

Sediment comments
no comments

Indoor air comments
For the Riverside HVOC Site, soil vapor intrusion is not a concern because the current and future use of the Site is as a city park.

Additional factors comments
The site is near the Sammamish River and may be prone to flooding.

**Site history**

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HVOC-impacted soil exceeding MTCA cleanup levels range from 12 to 30 feet below ground surface. HVOC-impacted groundwater exceeding MTCA cleanup levels is present at depths less than 15 feet below ground surface. Impacted soil and groundwater were found to be suitable for mass removal through soil vapor extraction and bioremediation.

A soil vapor extraction system will be installed in the source area. In addition, a bioremediation and groundwater recirculation system will be installed to treat HVOC contamination in the groundwater. The contaminated groundwater will be treated and discharged back into the ground. Once the bioremediation/recirculation system is fully operational, none of the treated groundwater is anticipated to be discharged to the sanitary sewer system.

Note: Copied to new version of SHARP Tool by Meredith Bee



**Overflow - Site contamination and cleanup history**

No overflow

# Bothell Riverside HVOC

14970 Bothell Riverside HVOC 20240208

First SHARP

SHARP rating — Low

# SHARP Report — Part 2 of 2

Conceptual site model

02/08/2024



## Assessment scores by environmental medium

