



Crownhill Elementary School

SHARP Report — Part 1 of 2

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• SHARP first assessment	v2024.04.03	Ecology Info
• SHARP rating	Low	ERTS na
• SHARP date	4/9/2024	CSID 4487
• EJFlagged?	⊘ - No Override	FSID 99722456
• LD confidence level	low	VCP NW2147
• Cleanup milestone	periodic review	UST ID na
• Assessor	Vance Atkins	LUST ID na

This section is blank if this is the first SHARP

Assessment Media	Scores	Confidence	Additional Factors
Indoor air	C1	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	C1	high	

Location and land use info	
1500 Rocky Point Rd NW , Bremerton, Kitsap County, 98312	
Parcel(s)	152401-2-027-2005, 152401-2-098-2009
Responsible unit	NWRO
Land use	Mixed use

Sources reviewed
2024, DRAFT First Periodic Review, Ecology
2024, 2023 Annual Report, Aspect Consulting
2021, 2020 Annual Report, Aspect Consulting



Crownhill Elementary School

Primary census tract	Associated census tracts
53035080700	SHARP it

Local demographics comments	Go to top
no comments	

Source/source area description	Go to top
<p>The Site was used for sand and gravel mining up to the 1930s. The gravel excavation area extended across portions of the two Sittie parcels and is estimated to cover approximately 5.5 acres. After cessation of gravel excavation, the pit was used as a municipal/industrial landfill in the 1930s and 1940s. Site investigations indicate that the depth of fill extended from 15 to 40 feet below grade. The Site was used, in part, as a Kitsap County maintenance facility in the 1940s. Petroleum hydrocarbons and metals associated with disposal and landfilling at the site are present above cleanup levels.</p>	

Soil comments	Go to top
<p>Shallow soil impacts at the Site are primarily metals and petroleum from historic fill and land use activities. Cleanup actions have included shallow soil removal, imported fill for soil capping, and maintenance to prevent exposure.</p>	



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Groundwater comments

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Groundwater exceedances occur on the Site parcel, primarily TPH, arsenic, and TCE (one well). Measureable LNAPL is present in approx. three wells. Limited amounts of LNAPL are removed by bailing per CAP. The GW plume is generally stable. Arsenic has shown an increasing trend, possibly from groundwater chemistry changes. Currently being evaluated.

Surface water comments

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no comments

Sediment comments

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no comments

Indoor air comments

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On-site mitigation includes HVAC operation during school hours. Soil vapor sampling from dedicated ports in the school building occurs every 5 years per the Site monitoring plan. Most recent (2020) sampling did not indicate any exceedances vs screening levels within school building. TCE in groundwater (MW-9) exceeds Method B screening levels for vapor intrusion. Residences may be within 100 feet of the well. Recommend soil gas sampling or groundwater monitoring wells along Site parcel property line to assess potential for off-Site migration.

Additional factors comments

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no comments



Site contamination and cleanup history

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Multiple subsurface investigations conducted at the Site between 1993 and 2012 identified and defined the extent of landfill wastes at the Site. Two areas of landfill materials were identified ('north' and 'south'). Landfilled materials were found at up to 40-foot depth in the north landfill area, and at up to 20-foot depth in the south landfill area. Extensive sampling identified the following constituents of potential concern (COPCs) in Site soils and groundwater:

- Total petroleum hydrocarbon (TPH) in the diesel and motor-oil ranges
- Trichloroethene (TCE)
- Carcinogenic polycyclic aromatic hydrocarbons (cPAHs)
- The metals/metalloids antimony, arsenic, chromium III, copper, lead, and zinc

Two interim remedial actions were conducted at the Site during the RI process.

During the Spring of 2012, shallow soils within one foot bgs were excavated and disposed of from an area generally on the BUMC property. During the Summer of 2013, a second interim remedial action was conducted on the School property to address lead-contaminated soils from depths of one to three feet bgs. A Feasibility Study (FS) and Cleanup Action Plan (CAP) for the Site was developed in 2014. The CAP was developed to address the contaminants and pathways identified through the Remedial Investigation process.

Primary elements of the CAP included: Maintaining the soil cap and adjacent impervious surfaces at the Site; addressing the soil vapor intrusion pathway by continuous operation of the school's HVAC system during occupation and periodic sub-slab soil vapor sampling; periodic manual removal of LNAPL under the north landfill area; periodic LNAPL gaging and groundwater sampling for groundwater COCs; and prohibiting drinking water well installation or other invasive activities that may create LNAPL or groundwater exposure.



Overflow - Site contamination and cleanup history

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No overflow

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04/09/2024

SHARP First Assessment

Low SHARP Rating

SHARP Report — Part 2 of 2

Conceptual site model



Assessment scores by environmental medium

