



## Shell Oil Harbor Island Terminal

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	4/15/2024	CSID	5051
• EJFlagged?	✓ – No Override	FSID	2030
• LD confidence level	low	VCP	na
• Cleanup milestone	cleanup implementation	UST ID	97428
• Assessor	Vance Atkins	LUST ID	na

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

Assessment Media	Scores	Confidence	Additional Factors
Indoor air	D4	high	multiple chemical types <span style="float: right;">⊘</span>
Groundwater	C2	high	risk to off-site people <span style="float: right;">⊘</span>
Surface water	D4	high	climate change impacts <span style="float: right;">✓</span>
Sediment	D4	high	plant/animal tissue data <span style="float: right;">⊘</span>
Soil	C2	high	

**Location and land use info**

2555 13th Ave SW, Seattle, King County, 98134

Parcel(s) 7666702650, 7671800251, 7671800550

Responsible unit NWRO

Land use Industrial

**Sources reviewed**

2023 Annual Compliance Monitoring Report, GHD

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## Shell Oil Harbor Island Terminal

Primary census tract	Associated census tracts
53033009900	SHARP it

Local demographics comments	<a href="#">Go to top</a>
no comments	

Source/source area description	<a href="#">Go to top</a>
<p>Site is located on Harbor Island, an artificial island created in part of dredged materials from the Duwamish River. The island is primarily industrial, with fuel storage and shipping as two primary uses. The island is currently about 95 percent covered with industrial buildings, paved roads, and other impervious surfaces. The island's pervious surfaces consist primarily of land located adjacent to aboveground storage tank and railroad tracks. Harbor Island was designated a Superfund Site in 1983 due to hazardous materials in soil, primarily lead. The Tank farm OU includes three bulk storage facilities and is administered by the Department of Ecology. The Site has been developed and used for bulk fuel storage and distribution and consists of two tank farms and a distribution manifold area along the north Harbor Island shoreline. Releases to soil and groundwater from bulk fuel storage were identified in the 1990s, likely from spills at the facility.</p>	

Soil comments	<a href="#">Go to top</a>
<p>Residual contamination of soils in inaccessible areas. Site is generally covered with impermeable surface, except rail spurs and areas within tank farm containment. Site access is fenced/gated with general access limited to employees and bulk fuel transport trucks.</p>	



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### Groundwater comments

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LNAPL measured in one Manifold area monitoring well in 2023, absorbent socks installed in 2 wells with current or past LNAPL measurements. Groundwater contaminants generally stable to decreasing.

### Surface water comments

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no comments

### Sediment comments

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no comments

### Indoor air comments

[Go to top](#)

no comments

### Additional factors comments

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Harbor Island elevation is generally 10-15 feet above MSL and susceptible to sea level rise.



## Shell Oil Harbor Island Terminal

### Site contamination and cleanup history

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Three groundwater monitoring and cleanup areas are associated with the parcels: The TX-03 Area, encompassing the North Tank Farm and the northern portion of the Main Tank Farm.; The SH-04 Area, overlapping the southeastern portion of the Main Tank Farm; The Shoreline Manifold Area. Accessible near-surface lead and arsenic-impacted soil were excavated throughout the Site in 2003-04. Between 2001 and 2009, petroleum-contaminated soils were removed from the Shoreline Manifold Area and Main tank farm to meet Site soil cleanup levels. A free product and vapor extraction system was installed at the Shoreline Manifold Area in 1996 and operated until 2005, with limited vacuum purging conducted until 2012. Sorbent socks remain in place in three wells. Limited additional soil and product was removed in 2013 after a spill. A bio-sparging system was installed at the TX-03A area in 2017 and operated until 2019. In 2020, a gasoline release occurred at the Pump House during tanker truck fueling. Excavation of accessible soils and removal of soil and water from the area was completed in 2021, and three additional monitoring wells installed. Groundwater monitoring of the areas continues on a periodic basis. Petroleum and benzene concentrations exceeding Site cleanup levels are present on-site, but POC wells are generally in compliance. Selected sentry wells at the north and south sides of the tank farm contained petroleum above site cleanup levels.



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### Overflow - Site contamination and cleanup history

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No overflow

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04/15/2024

SHARP First Assessment

Low SHARP Rating

# SHARP Report — Part 2 of 2

Conceptual site model



## Assessment scores by environmental medium

