Seattle Port Terminal 91

SHARP Report — Part 1 of 2

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• SHARP first SHARP	v2024.04.29	Ecology Info	
• SHARP rating	High	ERTS	none
• SHARP date	12/29/2023	CSID	2674
• EJFlagged?	⃠ - No Override	FSID	24768
• LD confidence level	low	VCP	NW0222
• Cleanup milestone	remedial investigation	UST ID	6271
• SHARPster	Jeff Wirtz, copied to new version by Meredith Bee	LUST ID	1447

This section is blank if this is the first SHARP

SHARP Media	Scores	Confidence	Additional Factors	
Indoor air	D4	high	multiple chemical types	✔
Groundwater	D4	high	risk to off-site people	⃠
Surface water	A1	medium	climate change impacts	✔
Sediment	A1	medium	plant/animal tissue data	⃠
Soil	D4	high		

Location and land use info

2001 W Garfield Street, Seattle, King County, 98119

Primary parcel	2325039107
Land use	industrial
Responsible unit	Haz Waste

Sources reviewed

2023, Draft Berth 6 & 8 Interim Action Work Plan, Port of Seattle

2023, Public Participation Plan, Ecology

Primary census tract	Associated census tracts
53033005804	none

Local demographics comments

The hazardous substances from this site remained on the census tract where the release occurred.

Source/source area description

Terminal 91 (T91) is in an industrial area of Seattle's Interbay neighborhood. Interbay is in the valley between Queen Anne Hill and Magnolia. The Great Northern Railroad filled parts of Interbay with dirt and debris in the early 1900s. Filling continued through the 1940s. The four-acre tank farm operated from the 1920s until the tanks were removed in 2005.

Soil comments

no comments

Groundwater comments

no comments

Surface water comments

Several threatened species of fish may occasionally be present in marine areas near the Site.

Sediment comments

The initial investigation found the following contaminants at levels of concern in onsite sediment:
Metals: arsenic, copper, lead, mercury, and zinc (these are toxic), Tributyltin (disrupts hormone production, can cause birth defects), PAHs (can cause cancer), Phthalates (these disrupt hormone production and can cause birth defects), SVOCs (can cause cancer), PCBs (some of these can cause cancer) and Discarded military munitions (DMMs—can explode and cause harm).

Indoor air comments

no comments

Additional factors comments

The site is located on Elliot Bay and subject to sea level rise.

Site history

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Terminal 91 Owner and Operator Timeline:
- 1800s–1941: Various companies, the Port of Seattle, and individuals owned the property.
- 1926–1941: Oil companies operated on part of the property.
- 1941: The U.S. Navy took possession, renamed it Terminal 91, and continued using the existing aboveground fuel tanks (tank farm) for fuel and lubricating oil.
- 1970s: The Port bought Terminal 91 and leased the tank farm to Burlington Environmental Inc. (BEI).
- 1971–1995: BEI recovered waste oil and treated wastewater under a RCRA treatment, storage, and disposal (TSD) permit.
- 1995: BEI terminated their lease.

Tank farm and uplands

The tank farm and uplands cleanup part of this site is complete. The remedy involved excavation, building and tank demolition, repaving, and installing an underground slurry wall to keep remaining groundwater contamination from entering Elliott Bay.

In the uplands, contaminants exceeding cleanup levels included:
- Metals: arsenic, copper, lead, mercury, and zinc—these are toxic.
- Polycyclic aromatic hydrocarbons (PAHs)—can cause cancer.
- Phthalates—these disrupt hormone production and can cause birth defects.
- Semi-volatile organic compounds (SVOCs)—can cause cancer.
- Polychlorinated biphenyls (PCBs)—some of these can cause cancer.
- Total petroleum hydrocarbons—some of these can cause cancer.

Submerged lands

Historic land use and industrial practices contaminated the sediment (mud) under Elliot Bay at this site. Our initial investigation found the following contaminants at levels of concern:
- Metals: arsenic, copper, lead, mercury, and zinc—these are toxic.
- Tributyltin—disrupts hormone production, can cause birth defects.
- PAHs—can cause cancer.
- Phthalates—these disrupt hormone production and can cause birth defects.
- SVOCs—can cause cancer.
- PCBs—some of these can cause cancer.
- Discarded military munitions (DMMs)—can explode and cause harm.

Overflow - Site contamination and cleanup history

No overflow

Seattle Port Terminal 91

2674 Seattle Port Terminal 91 20231229
First SHARP
SHARP rating — High

SHARP Report — Part 2 of 2

Conceptual site model
12/29/2023

SHARP