



Harbor Island East Waterway

SHARP Report — Part 1 of 2

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• SHARP first assessment		v2024.04.03	Ecology Info	
• SHARP rating	High		ERTS	n/a
• SHARP date	4/3/2024		CSID	1372
• EJFlagged?	✓ – No Override		FSID	989871
• LD confidence level	high		VCP	n/a
• Cleanup milestone	cleanup action plan		UST ID	n/a
• Assessor	Kim Wooten		LUST ID	n/a

This section is blank if this is the first SHARP

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

Location and land use info

mouth of Duwamish River, Seattle, King County, 98106 and 98134

Parcel(s) 072404HYDR, 182404HYDR, 76662007900 (list not inclusive of all in-water areas included in site)

Responsible unit NWRO

Land use Mixed use

Sources reviewed

US EPA. April 2023. Proposed Plan for the East Waterway Operable Unit.

Anchor et al. June 2019. East Waterway Operable Unit...Final Feasibility Study.

Windward et al. January 2014. Final Supplemental Remedial Investigation Report for the East Waterway.

other documents available on EPA's site webpage:

<https://cumulis.epa.gov/supercpad/cursites/csitinfo.cfm?id=1000949>



Harbor Island East Waterway

Primary census tract	Associated census tracts
53033009300	53033009900

Local demographics comments	Go to top
<p>The East Waterway portion of the Harbor Island site is bordered by different census tracts on the east and west side of the waterway. The tract with the higher demographic and supplemental demographic indexes was selected as the primary tract. This tract is located east-adjacent to East Waterway and primarily includes the SoDo neighborhood of Seattle. High confidence was selected for the LD data based on knowledge of the community of anglers that use areas of the site, which include members of overburdened communities and vulnerable populations.</p>	

Source/source area description	Go to top
<p>The primary sources of sediment contamination in the East Waterway are associated with historical commercial and industrial uses and direct discharges from sanitary, stormwater, and industrial waste streams. Inputs from the Duwamish River upstream of the site are also an ongoing source. For more information on sediment conditions upstream, see the assessment for the Lower Duwamish Waterway site. Ongoing sources within the overall Harbor Island site are considered to be minor and include contaminated upland sites, spills and leaks, bank erosion, deterioration of treated-wood structures, and urban pollution that enters the waterway directly through stormwater runoff and outfalls. The contribution from groundwater and seeps is minimal.</p>	

Soil comments	Go to top
<p>While this media may be impacted as part of the overall Harbor Island site, it is not impacted within the boundaries of East Waterway.</p>	



Harbor Island East Waterway

Groundwater comments

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While this media may be impacted as part of the overall Harbor Island site, it is not impacted within the boundaries of East Waterway.

Surface water comments

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The site area and dowgradient are marine water, and are not a viable drinking water source. Fishing does occur within site boundaries.

Sediment comments

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Site contamination includes chemicals on the Persistent, Bioaccumulative, and Toxic (PBT) list. Fish and shellfish, which may be harvested and consumed, are present on site.

Indoor air comments

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While this media may be impacted as part of the overall Harbor Island site, it is not impacted within the boundaries of East Waterway.

Additional factors comments

[Go to top](#)

no comments



Harbor Island East Waterway

Site contamination and cleanup history

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East Waterway is one operable unit of the overall Harbor Island cleanup site. EPA is the lead agency for cleanup for most of Harbor Island, including East Waterway.

East Waterway has a long cleanup history, and many additional details can be found in the documents referenced and linked in the Sources Reviewed section. Briefly, the Harbor Island site was added to the National Priority List by EPA in 1983. Sampling to determine the location and types of contaminants in sediment around Harbor Island began in 1994 and continued for many years. In 2004-2005, a Phase I removal action removed 273,330 cubic yards of contaminated sediment from East Waterway. Contaminants present in East Waterway sediments include polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs), dioxins/furans, arsenic, mercury, and tributyltin.

An interim Record of Decision, an EPA document outlining the selected cleanup remedies for East Waterway is expected to be finalized in 2024. The preferred alternative in the Proposed Plan for the cleanup remedies, which went out for public comment in 2023, involves a combination of technologies: dredging, capping, enhanced natural recovery, and monitored natural recovery. The estimated timeframe for construction of that alternative is 10 years.

NOTE: At the time of the initial assessment, East Waterway was assessed distinctly from the rest of Harbor Island based on a need for SHARP assessments to support evaluation of remedial action grant applications. Application specifically applied to East Waterway and not the entire site. When the initial Harbor Island SHARP is completed, we will reevaluate whether the entire site should be covered in one SHARP assessment or if distinct operable units are best covered in individual assessments.



Harbor Island East Waterway

Overflow - Site contamination and cleanup history

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No overflow

Harbor Island East Waterway

04/03/2024

SHARP First Assessment

High SHARP Rating

SHARP Report — Part 2 of 2

Conceptual site model



Assessment scores by environmental medium

