

North Boeing Field Georgetown Steam Plant



SHARP Report — Part 1 of 2

[Go to site contamination history](#)

• SHARP reSHARP results		v2024.04.29	Ecology Info	
• SHARP rating	Low		ERTS	none
• SHARP date	09/30/2025		CSID	4765
• EJFlagged?	✓ – No Override		FSID	2050
• LD confidence level	low		VCP	none
• Cleanup milestone	remedial investigation		UST ID	none
• SHARPster	Beau Johnson		LUST ID	none

◆ Historic SHARP first SHARP results		◆ SHARP Tool version	
◆ SHARP rating	low		
◆ SHARP date	45428		
◆ EJFlagged?	EJFlagged - No Override		
◆ LD confidence level	low		
◆ Cleanup milestone	remedial investigation		
◆ First SHARPster	Jeff Wirtz/Julia Schwartz		

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	
7370 E Marginal Way S, Seattle, King County, 98108	
Primary parcel	2824049007
Land use	industrial
Responsible unit	NWRO

Sources reviewed
ISIS
Draft RI



Primary census tract	Associated census tracts
10900	

Local demographics comments
no comments

Source/source area description
Releases from previous operations and spills have occurred throughout the large site. The site is subdivided into 10 areas of concern. The areas have different historical operations and varied potential chemicals of concern.

Soil comments
no comments

Groundwater comments
no comments



Surface water comments

no comments

Sediment comments

no comments

Indoor air comments

no comments

Additional factors comments

no comments

Site history

[Go to top](#)

Boeing operations have been conducted at NBF since the 1940s for the manufacture, maintenance, refurbishing, and delivery of commercial and military aircraft. Numerous structures have been built and demolished over the years at the NBF property. Although Boeing has leased the majority of NBF property from King County since 1948, operations expanded to the north after additional property at the north end of NBF was leased from King County and the City beginning in 1953, including areas adjacent to the former Georgetown Flume.

The GTSP was constructed in 1906 by the Seattle Electric Company on the banks of the Duwamish River. In the early 1900s, the river was straightened for navigation purposes which left the GSTP approximately 0.5 miles from the riverbank. At that time, a flume was constructed to convey cooling water from the GTSP to the Duwamish River. The flume was approximately 2,450 ft long (0.46 miles) and comprised of wood- and concrete-lined channels. The condenser pit below the GTSP stopped discharging cooling water to the flume in the 1960s, except for annual test runs. Stormwater was conveyed to the LDW via the flume until the flume was removed in 2009. The former flume drainage area included the GTSP building roof, adjacent City rights-of-way, a private property, and the northwestern portion of NBF (comprising approximately 6 acres). The portion of the former flume area between South Myrtle Street and East Marginal Way is currently in design for construction of a multi-use trail and off-leash dog park.

The former flume was replaced with high-density polyethylene and polyvinyl chloride storm drain piping draining to Slip 4. The configuration of the storm drain is similar to that of the former flume. NBF is operated by Boeing Commercial Airplanes. Primary industrial activities at NBF include research and development, finishing and testing of Boeing military and commercial aircraft, and related support services. Aircraft finishing activities include wet sanding, cleaning, and painting of airplanes. Testing activities include stress testing of parts, pressurized testing of hydraulic parts, jet fuel testing, testing of aircraft water distribution and wastewater collection systems, and fire suppression system testing. Fueling and defueling aircraft, deicing at the wash stall (located south of the Site), engine preflight/avionics testing, and touch-up chemical cleaning and painting may also be conducted. Support operations include: a wastewater treatment plant, which is used to treat process and other treatable wastewaters; loading and unloading of hazardous and non-hazardous new materials; maintenance of hazardous waste and material accumulation areas; and operation of regenerative air-type street sweepers to maintain the flightline and other paved areas of NBF. Only limited amounts of fertilizers, herbicides, and insecticides are used at NBF, as needed, in landscaped areas.



Overflow - Site contamination and cleanup history

No overflow

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4765 North Boeing Field Georgetown Steam Plant 20250930

reSHARP

SHARP rating — Low

SHARP Report — Part 2 of 2

Conceptual site model

09/30/2025



Assessment scores by environmental medium

