



INITIAL INVESTIGATION FIELD REPORT

LUST ID: 2557

FS ID: 83767996

Site ID: 10410

SITE NAME Thompson Site

SITE LOCATION INFORMATION

Contact Person Name	Title	Phone Number
<i>Mailing Address</i>		
8701 E Marginal Way	Seattle	Zip + 4 98108
<i>Site Location</i>		
8701 E Marginal Way	Closest City Seattle	County
<i>Quarter-Quarter</i>		<i>Section</i>
Latitude:	Degree	Township Minute
Longitude:	Degree	Range Second

INSPECTION INFORMATION

Inspection Date	Inspection Time	Type of Entry Notice
Photographs Yes No	Weather: Clear	Partly Cloudy Overcast
Videotape Yes No	Precipitation	Temperature
Samples Yes No	Wind Direction	Wind Speed

RECOMMENDATION

No Further Action:

Unknown. There are no LUSTs related to this site. Metals and solvents above MTCA remain.

<p><i>Release or threatened release does not pose a threat</i></p> <p><i>No release or threatened release</i></p> <p><i>Educational Mailing</i></p> <p><i>Refer to another program/agency</i></p>	<p><i>Site Hazard Assessment</i></p> <p><i>Interim Action</i></p> <p><i>Emergency Action Plan</i></p> <p><i>Independent Cleanup Action</i></p>
	<p><i>In Progress</i> <i>Completed</i></p>

CONTAMINANT(S) (See Page 3 for details)

Soil	Yes	
Groundwater	Yes	As, Ag, Pb, Ni, Zn

DEPARTMENT REVIEW

Investigator	Date
Approved by	
Unit Supervisor <i>NEO</i>	Date <i>2/14/11</i>
Section Manager	Date

COMMENTS

Several letters were found in the file from Boeing to Ecology. In a 1995 letter, Boeing indicated that an IRAP was conducted at North Boeing field Boiler Fuel tanks UBF 22 and 23. The letter indicated that the tanks were exempt since they were backup fuel for gas-fired boilers. The letter indicated the USTs were removed in 1995, approx. 135 cy of PCS were overexcavated to below MTCA levels of 160 ppm TPH and were disposed off-site, and that no further action was planned in the area. Another letter dated 1998 as a response to Ecology inquiries on sites, indicates that Boeing had submitted several reports on petroleum



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contamination in North Boeing Field, specifically for an IRAP on a UST in Bldg. 3-800 (former concrete septic tank where VOCs were discovered), another one in Bldg. 3-374 (all impacted soil was removed and no further action was planned for the area), and a Site Assessment and an IRAP at the Green Hornet area. The Green Hornet report indicated that most of the PCS was removed and the PCS remaining was left in place to prevent undermining adjacent structures. Wells were installed which showed low levels of TPH in GW and they were in the process of evaluating remedial options in 1998. A 1992 letter indicated that an investigation was underway on a possible release from a Oil collection tank from a, o/w separator. The letter indicated the area was used to test hydraulic systems on 767s and was there in case there was a malfunction during testing and a spill. The tank was serviced on a regular basis but when the site went in dis-use, the tank was taken off the service list. The tank was recently found overfilled and it was possible that hydraulic oil had leaked underground. The investigation will be conducted by advancing soil borings around the tank. A 2000 LUST Cleanup report review indicated that they could not find a reason in the file why the site was listed as a LUST. In 2000, Ecology changed the status of this site as RCU. The following is what was observed in the TCP file. The site is the two parcels that are located immediately south of Jorgensen Forge. The Issacson property is the northernmost one and was a sawmill, a wood treating facility, part of Jorgensen Forge (when it was operated by the Navy) and Boeing bought it in 1984 and used the former steel fabrication building as storage. The building was razed in 1989 and Boeing conducted a soil stabilization project; a large-scale arsenic encapsulation by recrystallization project which failed and created a "Bump" on the surface. Boeing asphalted the property to prevent infiltration and mobilization of the metal impacts. Slip 5 along the Duwamish was in between Issacson and Thompson and was filled in by Boeing by the end of the 1960s. The Thompson property is immediately south and was used as a sawmill and by Boeing to assemble airplanes. Bulkheads were constructed along the shoreline of both properties and a large outfall, draining parts of the King Co Airport, crosses the Thompson Property. The shoreline of both properties are part of the Lower Duwamish Superfund Site. The site is under a 2010 Agreed Order filed with the King County District Court. Under the AO, Boeing needs to conduct RI/FS of the site and a remedial action if need necessary. A SHA was conducted by Ecology in 2008 and ranked the site a 2. The Issacson property has arsenic levels in soil up to 1,600 ppb As, 95 ppb Pb, 8.1 ppb Ag, and 14,000 ppb Zn in GW. Approximately 3,000 cy of arsenic-impacted soil were overexcavated in 1988 for the construction of a new building. Further studies indicated that upwards of 20 to 40,000 cy of arsenic-impacted soils were present at the parcel with As levels of 400 to 5,000 ppm. Hence the failed attempt of encapsulation. The Thompson property is also high in As but no investigations have really been conducted. The sludge from the outfall has never been sampled. Back in 2000 and 2001, Boeing submitted a request for file review and NFA of the Issacson parcel based on a planned remedial action of crushing the encapsulated material, regrading of the site, capping and re-development. Ecology rejected the approach to prevent leaching and asked the crushed material to be disposed as haz waste. The 2000 NFA request was also denied on the basis that arsenic effects in GW and potentially to the Duwamish had not been contained. A 1996 GW Compliance Monitoring report indicated that arsenic levels in GW after encapsulation did not diminished much and were still above MTCA (0.11 to 0.57 ppm). The most recent investigation was conducted in 2009 and included Thompson Property. In the investigation, push probes were advanced along the bulkhead dividing the Issacson property from the Port of Seattle (POS) property and throughout the Thompson property and Paccar. Arsenic concentrations in soil at the Issacson Property ranged from 0.5 to 774 ppm with the highest concentrations within the 4 to 6 ft bgs soil horizon and on the NW corner of the site. The likely source of metals was the wood treatment operations in the 1940s. TCE (20 to 35 ppb), PCE (1.7 to 5.3 ppb) in soil and vinyl chloride (0.051 to 1.3 ppb), DCE (0.4 to 0.58 ppb), cis-1,2-DCE (100 to 190 ppb), TCE (1,000 ppb) and PCE (78 ppb) in GW were detected. The report points to PACCAR as the likely source of solvents at the Thompson property.