King County
International Airport
Boeing Field

Department of Transportation
7277 Perimeter Road South
Seattle, WA 98108-3844
206-296-7380
206-296-0190 Fax
TTY Relay: 711
www.kingcounty.gov/airport

May 8, 2008

John Keeling, PE
Department of Ecology
Northwest Regional Office
3190 160th Ave. SE
Bellevue, WA 98008-5452

RE: Early Action Area 4: Boeing Plant 2/Jorgensen Forge - Property Line Stormwater Lines

Dear Mr. Keeling:

This letter is to report on our findings following our last meeting concerning the Boeing Plant 2 and Jorgensen Forge storm line.

The King County International Airport (Airport) discharges stormwater from drainage from two parking lots to the City of Tukwila's stormwater drainage system. This was confirmed by reviewing City of Tukwila As-builts (Attachment 1) and an inspection video of the 24" drain line performed by the Airport. A copy of the inspection video is enclosed with this letter.

Stormwater is conveyed from the Airport at MH-1-E, westwardly through a 24-inch drain line that discharges to the City's 60" Type II catch basin located at East Marginal Way South.

Catch basin and joint caulk samples that were collected at the Airport in 2001 and 2005 have been reviewed (Attachment 2). The data from these samples were compared to data of samples collected downstream of the airport, which indicated Airport PCB levels were significantly lower than those collected at the Boeing Plant 2/Jorgensen Forge - Property Line Stormwater Lines (Attachment 3).

The 2001 Airport data showed that all caulk and sediment Total PCB concentrations were below MTCA levels (1 mg/kg DW). The 2005 Airport data showed sediment and caulk Total PCB concentrations ranging from about 0.141 mg/kg DW to 2.67 mg/kg DW. In comparison, downstream total PCB samples collected at manholes of 24" line between

647019

Boeing Plant 2 and Jorgensen Forge ranged from 68.0 mg/kg DW to 10,000 mg/kg DW. Total PCB samples at the 12" line (parallel to 24" line) to the Duwamish Waterway ranged from 140 mg/kg DW to 340 mg/kg DW.

In light of the Airport samples already taken and the data comparison with off-site downstream samples, the Airport has no immediate plans to perform additional sampling.

Should you have any questions regarding this letter, please contact me at (206) 296-7427.

Sincerely,

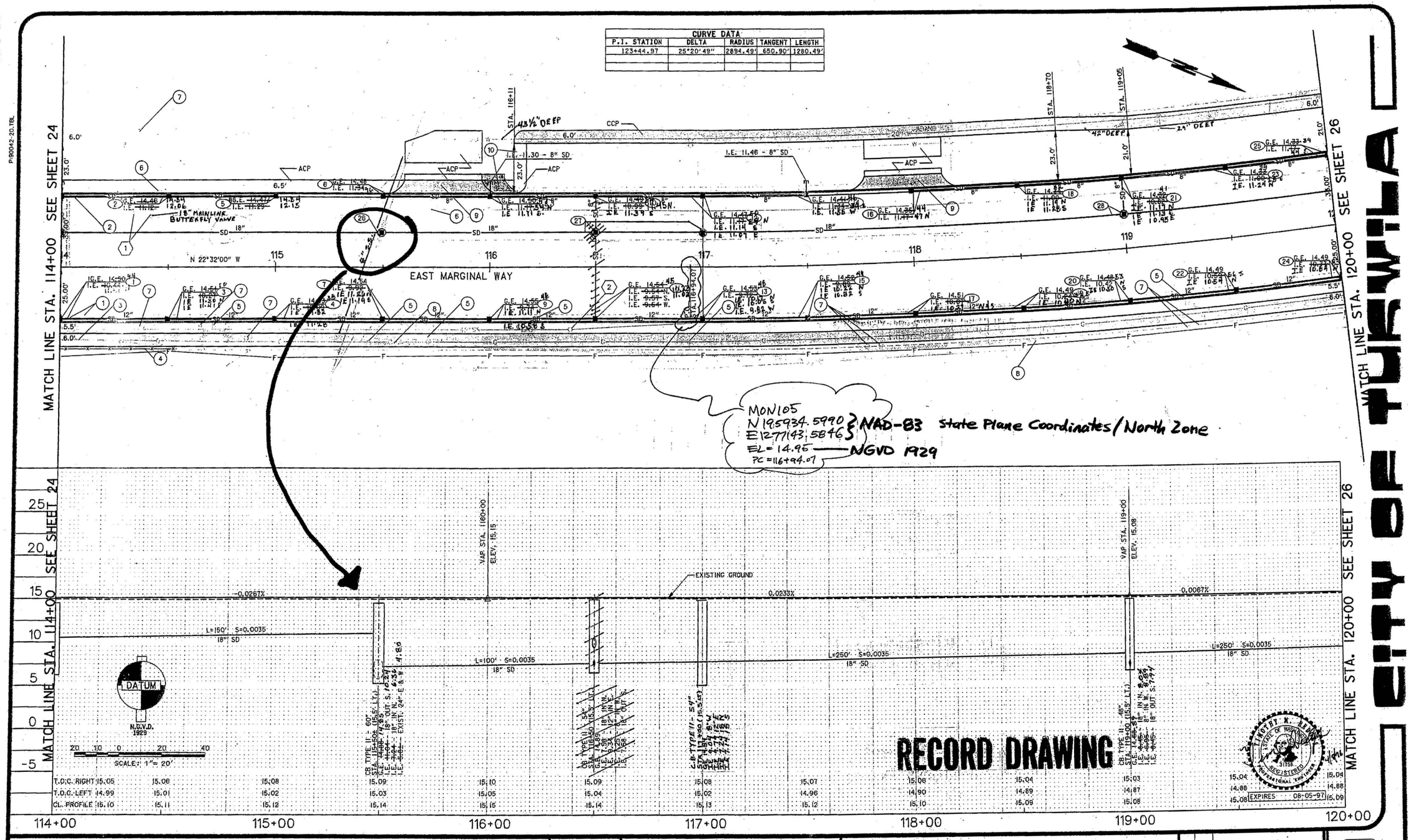
Rick Renaud, P.E.
Senior Engineer

Attachments: City of Tukwila Stormwater Plan and Profile As-built
King County International Airport 2001 and 2005 PCB Sample Data
Jorgensen Forge/Boeing Plant 2 Property Line Stormwater Lines 2005 PCB Data

Enclosed: CD – Inspection Video from Airport Manhole MH-1-E to City of Tukwila 60" Type II Catch Basin

P:\CADD\DGN\90042-20\PLAN10.PRF
04/05/96 15:53:47 P:90042-20.TBL

CURVE DATA				
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH
123+44.97	25°20'49"	2894.49'	650.90'	1280.49'



CITY OF TUKWILA

PUBLIC WORKS DEPARTMENT
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proj eng		
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EAST MARGINAL WAY

PLAN AND PROFILE
STA. 114+00 TO STA. 120+00

no	date	revisions
	12/97	RECORD DRAWING

25
76

SCALE: HORIZ. 1"=20' VERT. 1"=5'

2477.

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Table 1
Catch Basin Sediment and Caulk Sampling - Lots 13 and 14 (2001)
King County International Airport
Seattle, Washington

Sample Number	Matrix	Concentration[a]									
		Arsenic	Barium	Cadmium	Chromium	Mercury	Lead	Selenium	Silver	Aroclor 1254	Aroclor 1260
CB-1-F	Sediment	**8.94**	**172**	**21.9**	**78.9**	ND (0.532)	**276**	**2.08**	ND (0.964)	**0.0805**	**0.121**
CB 1802	Sediment	**5.25**	**55.8**	**2.70**	**64.8**	ND (0.200)	**294**	ND (0.407)	ND (0.407)	**0.0535**	**0.0539**
CB-4-F	Sediment	**9.85**	**89.7**	**3.94**	**74.8**	ND (0.200)	**257**	**0.419**	ND (0.410)	ND (0.025)	ND (0.025)
MH-2-E	Sediment	**2.95**	**30.5**	**0.411**	**11.5**	ND (0.200)	**33.4**	ND (0.370)	ND (0.370)	**0.528**	ND (0.125)
Caulk 1	Caulk	NA	NA	NA	NA	NA	NA	NA	NA	**0.392**	**0.438**
Caulk 2	Caulk	NA	NA	NA	NA	NA	NA	NA	NA	**0.290**	**0.461**

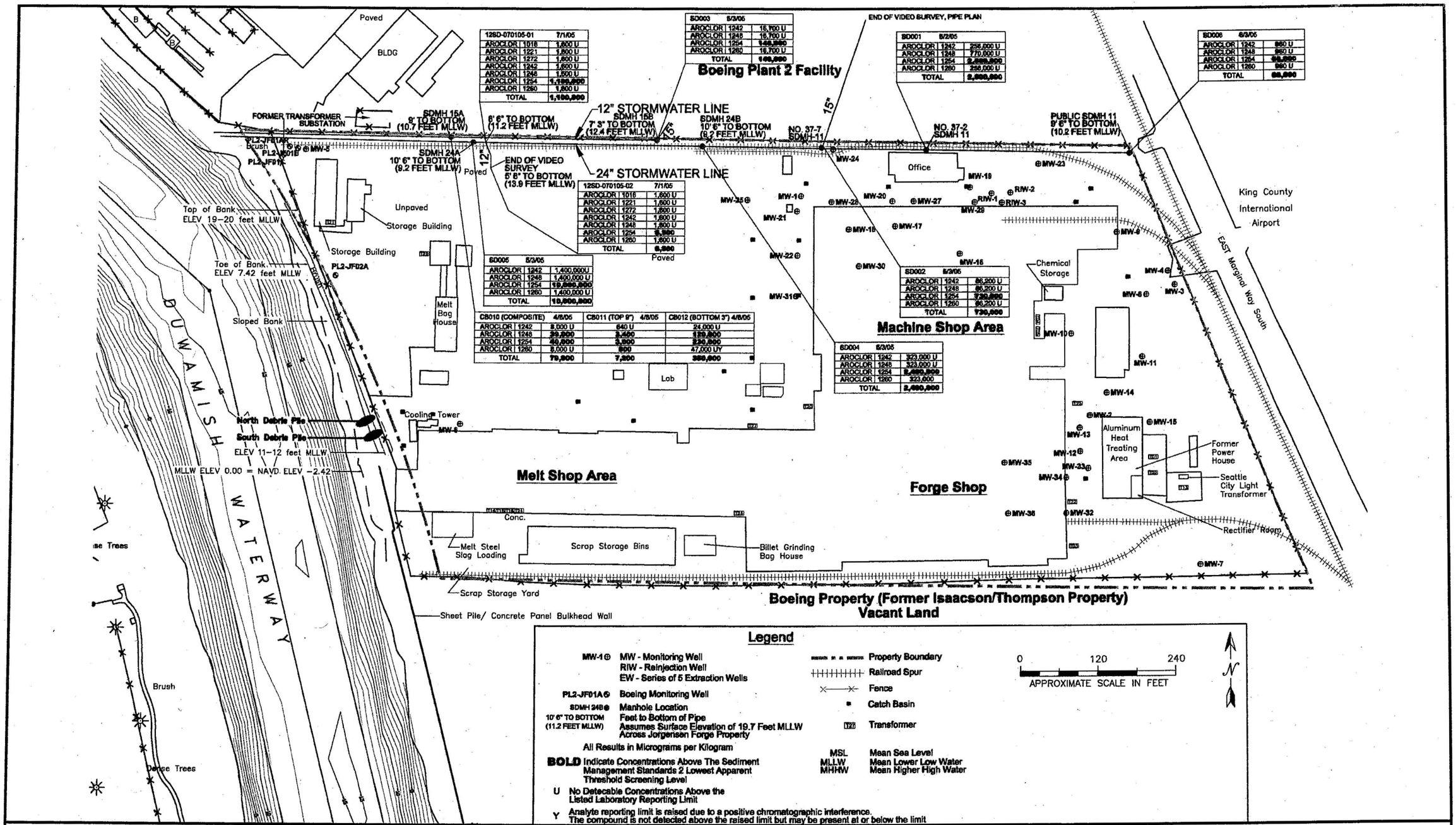
NOTE: ND = analyte not detected at or above the reporting limit. Reporting limit in parentheses.
NA = not analyzed. Bold indicates detected compound.
[a] Concentration of sediment samples reported in mg/kg.

Table

Catch Basin Sediment and Concrete Joint Compound PCB Sampling Results (2008)
Lot 12 at King County International Airport
Seattle, Washington

Sample Number/Location	Date Collected	Sample Type	Concentration (µg/kg) Aroclor 1254	Concentration (µg/kg) Aroclor 1260	Comments/Observations
CB-6E	7/22/2005	Sediment	<25.0	**190**	Approximately 4 inches of sediment in catch basin
CB-7E	7/22/2005	Sediment	<25.0	**250**	Approximately 1-2 inches of sediment in catch basin
CB-9E	7/22/2005	Sediment	<25.0	**141**	Approximately 3 inches of sediment in catch basin
Trench 2	7/22/2005	Sediment (comp)	<25.0	**2,670**	composite sample, < 1 inch of material on bottom
Trench 3	7/22/2005	Sediment (comp)	<25.0	**414**	Composite sample, collected from beneath grate before trench goes beneath parking lot.
CB-565	5/21/2000	Sediment	<10	**50**	Sample collected by Boeing from catch basin at south end of trench drain.
JC-1	7/22/2005	Joint Compound	<25.0	**529**(1)	black , varies from competent to highly deteriorated
JC-2	7/22/2005	Joint Compound	<25.0	**171**(1)	black , varies from competent to highly deteriorated
JC-3	7/22/2005	Joint Compound	<25.0	**1690**(1)	black , varies from competent to highly deteriorated
NBF-SP47-001109-H	11/9/2000	Joint Compound	**2,200**	**1,700**	Sample collected by Boeing. Located at south end of trench drain.

Notes:
Concentrations are on a dry weight basis unless otherwise noted.
(1) Joint compound results are on an as-received (wet weight) basis.



ecology and environment, inc.
International Specialists in the Environment
Seattle, Washington

Base Map Reference: Earle M. Jorgensen Company 2005.

LOWER DUWAMISH WATERWAY
EARLY ACTION AREA 4
Seattle/Tukwila, Washington

Figure 20
JORGENSEN FORGE FACILITY
JORGENSEN FORGE FACILITY - BOEING PLANT 2 FACILITY
PROPERTY LINE STORMWATER LINES

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